

GREETINGS FROM THE DEAN

We began to compile a record of the achievements of Stony Brook's graduate Students in 1991 and have published an issue each academic year since then. This issue covers the 2010-2011 academic year.


The accomplishments of Stony Brook's graduate students are quite extraordinary. They include winning numerous, prestigious, national and international fellowships and research grants. Our students have also established an impressive presence in the literatures of their disciplines with publications in many of the best scholarly journals and books. They have achieved recognition in the creative arts with acclaimed exhibitions and performances. Stony Brook's graduate students also won awards for their excellence as teachers. Finally, graduates of Stony Brook's programs leave us to take up a wide variety of professional appointments. Many of these are Post-Doctoral fellowships or faculty positions at some of the nation's finest universities. In addition, Stony Brook's graduates carry the knowledge and expertise that they gained here to many prestigious institutions overseas, thus enhancing Stony Brook's international reputation as an outstanding research university.

The success of Stony Brook's graduate enterprise is rooted in the success of the faculty of the University in research, scholarship and creative activities. The international reputation of Stony Brook's faculty attracts outstanding students to our graduate programs from across the country and around the world. Our educational programs and the opportunities to work with dedicated faculty mentors develop the potential that students bring with them so that they become independent researchers and scholars. Graduate education lies at the heart of a research University and this publication demonstrates the vitality of the research, scholarly and creative activities underway at Stony Brook. The students whose accomplishments make up this document deserve recognition for their achievements and our thanks for what they have contributed to the intellectual life of the campus and to the reputation of our University. The faculty who have guided these efforts and the staff and administration of the University who help to foster an environment in which scholastic excellence is valued and in which outstanding graduate education can take place all played important roles in the successes documented here.

The achievements listed here required hard work by many people and all who contributed should feel a sense of pride in the accomplishments of these students. My congratulations and thanks to all concerned.



Lawrence B. Martin
Dean of the Graduate School



Charles Taber
Associate Dean of the Graduate School

Acknowledgements

The Graduate School would like to extend special thanks to all participating Stony Brook graduate students who have made this publication possible, the deans for encouraging their respective programs to participate, and the chairs, graduate directors, and graduate coordinators who have taken the time to coordinate and submit the program's achievements.

- **On the Cover**

Origins by Jose Antonio Ojeda

Jose Antonio Ojeda is a graduate student in the Master of Fine Arts program in Studio Arts and the winner of the 2011 Dorothy L. Pieper Memorial Purchase Prize

- **Cover Design:** Daniel Evan Chodkowski
- **Editing and Typesetting:** Daniel Evan Chodkowski

The Graduate School

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GRADUATE PROGRAMS

❖ **COLLEGE OF ARTS AND SCIENCES**, Dean: Nancy Squires

Anthropological Sciences
Anthropology
Art History & Criticism and Studio Art
Biochemistry and Structural Biology
Chemistry
Comparative Literary and Cultural Studies
Ecology and Evolution
Economics
English
European Languages, Literatures and Cultures
Genetics
Geosciences
Hispanic Languages, Literatures and Cultures
History
Linguistics
Mathematics
Molecular and Cellular Biology
Music
Neuroscience
Philosophy
Physics and Astronomy
Political Science
Psychology
Sociology
Theatre Arts
Women's Studies
Writing and Rhetoric

❖ **COLLEGE OF BUSINESS**, Dean: Manuel London

❖ **COLLEGE OF ENGINEERING AND APPLIED SCIENCES**, Dean: Yacov Shamash

Applied Mathematics and Statistics
Biomedical Engineering
Computer Science
Electrical Engineering
Materials Science and Engineering
Mechanical Engineering
Technology and Society

❖ **SCHOOL OF DENTAL MEDICINE**, Dean: Ray Williams

❖ **SCHOOL OF MARINE AND ATMOSPHERIC SCIENCES**, Dean Minghua Zhang

❖ **SCHOOL OF MEDICINE**, Dean: Kenneth Kaushansky

Anatomical Sciences
Molecular and Cellular Pharmacology
Molecular Genetics and Microbiology
Physiology and Biophysics

❖ **SCHOOL OF PROFESSIONAL DEVELOPMENT**, Dean: Paul Jay Edelson

❖ **SCHOOL OF SOCIAL WELFARE**, Dean: Francis Brisbane

❖ **SCHOOL OF JOURNALISM**: Dean: Howard Schneider

❖ **SCHOOL OF HEALTH TECHNOLOGY AND MANAGEMENT**, Dean: Craig Lehman

The 2011 GRADUATE AWARDS

❖ President's Award for Excellence in Teaching

This award is made in recognition of excellence in teaching by graduate students.

| | |
|---------------------|--|
| Andrei Antonenko | <i>Linguistics</i> |
| Ceylan Cizmeli | <i>Psychology</i> |
| Andrea Daly | <i>Music</i> |
| Philip Salathé | <i>Music</i> |
| Caitlin Fisher-Reid | <i>Ecology and Evolution</i> |
| Ashar Foley | <i>Comparative Literary and Cultural Studies</i> |

❖ President's Award to Distinguished Doctoral Students

This award is made in recognition of:

1. The candidate's dissertation and its research base are of outstanding merit.
2. The student, in conduct of doctoral work made exceptional contributions to the University.
3. The student, in completing candidacy overcame personal or social handicaps of an unusual nature.

| | |
|--------------------|--|
| Jacqueline Faherty | <i>Physics and Astronomy</i> |
| Sarah Gray | <i>Ecology and Evolution</i> |
| Christian Holzner | <i>Physics and Astronomy</i> |
| Ying Liu | <i>Materials Science and Engineering</i> |
| Liliana Naydan | <i>English</i> |
| Xiaomeng (Mona) Xu | <i>Psychology</i> |

❖ Dorothy L. Pieper Memorial Purchase Prize

This award is presented to a student in the Master of Fine Arts Program for an outstanding work of visual art. The work winning the Pieper Prize appears on the cover of the Graduate Student Achievements for the corresponding academic year.

| | |
|--------------------|-------------------|
| Jose Antonio Ojeda | <i>Studio Art</i> |
|--------------------|-------------------|

❖ The Faculty Staff Fellowship Award

This award has been made possible through faculty and staff payroll deduction contributions to the Graduate School Fellowship Fund.

| | |
|-----------|--|
| Lupeng Ma | <i>Comparative Literacy and Cultural Studies</i> |
|-----------|--|

❖ **The Madeline Fusco Fellowship**

This fellowship is awarded to outstanding women or minority doctoral students completing a dissertation.

Andrea Baden

Anthropological Sciences

❖ **The Mildred and Herbert Weisinger Dissertation Fellowship**

This fellowship is awarded to graduate students completing dissertations that bear significant scholarly promise, and whose work might otherwise be delayed due to financial obligation.

Alice Elder

Anthropological Sciences

❖ **Alumni Association Dean's Choice Award**

The Dean's Choice Award has been awarded to a deserving student to foster a lifelong intellectual and emotional connection between the University and its graduates.

Caitlin Fisher-Reid

Ecology and Evolution

2011 PROVOST'S GRADUATE STUDENT LECTURE SERIES

| | |
|--|---|
| Landon Frim, Philosophy | Substance Abuse: Postmodern Misreadings of Spinoza. |
| Eunah Lee, Philosophy | Hegelian Cosmopolitanism: The Politics of Recognizing People and Race. |
| John Carroll, School of Marine and Atmospheric Science | The Effects of Changing Habitat on Bat Scallop Population in New York: Implications for Restorations. |
| Xiudong Tang, Mechanical Engineering | Large Scale Energy Harvesting from Vehicles and Civil Structures |
| Meng Li, Materials Science | Ternary Electrocatalysts for Ethanol Oxidation in Direct Ethanol Fuel Cell |
| Stephanie Talmage, SOMAS | Effects of Past, Present and Future CO ₂ Concentrations on the Development and Survival of Larval Bivalvs |
| Peter Park, Ecology and Evolution | The Contribution of Ecology, Evolution and Phenotype Plasticity on Telencephalon Morphology and Spatial Learning Behavior in Alaskan Threespine Stickleback |
| Aaron Jackson, Physics and Astronomy | Exploring Systematic Effects of Thermonuclear Supernovae |
| Igor Feinstein, Neuroscience | Integrated Bibehavioral Analysis of Sex Differences in a Rat Model of Schizophrenia |
| Zhiheng Jia, Biomedical Engineering | An Optogenetic Approach for Controlling Cardiac Activities |
| Gopal Dwivedi, Materials Science | On the Bio-Mimetic Response of Thermally Sprayed Ceramics |

Norah Warchola, Ecology and Evolution

The Effects of Vegetation Structure on Butterfly Behavior at a Variety of Spatial Scales

John Chin-Hao Chen, Physics

Quark-gluon Plasma, the Hottest Matter on Earth

Kriszta Sajber, Philosophy

Schizophrenic Body Image Disorders

Patrina Jones, English/Africana Studies

Music, Voice, and the Female Body in the African-American Novel

2010 New Turner Fellows

- ❖ The W. Burghardt Turner Fellowship is a Graduate Fellowship program for eligible underrepresented students whose immediate academic plans include obtaining graduate or professional degrees in a variety of disciplines including the biological sciences, physical sciences, social sciences, medicine, humanities, engineering, and the arts. It is funded by the State University of New York's Office of Diversity, Equity and Inclusion and referred to system wide as the Graduate Diversity Fellowship Program. At Stony Brook University the fellowship carries the name of the late Dr. W. Burghardt Turner, who taught in the Department of History at and was actively engaged with issues relating to academic access for underrepresented students on our campus and across Long Island.

| | |
|----------------------------|---|
| Marcus Brock | Ph.D. Program, Cultural Studies |
| Lawrence Buckley | Ph.D. Program, Applied Mathematics and Statistics |
| Dane Campbell | M.D. Program, School of Medicine |
| Noel Carrascal* | Ph.D. Program, Applied Mathematics and Statistics |
| Amelia Mershon Ellison | M.S. Program, Computer Science |
| Michael Espinoza | M.S. Program, Mechanical Engineering |
| Andre Hamilton | M.S. Program, Computer Science |
| Joel Jimenez | M.S.W. Program, Social Welfare |
| Patrina Jones* | Ph.D. Program, English |
| Jeannette Elizabeth Marine | Ph.D. Program, Chemistry |
| Isai Munoz* | D.M.A. Program, Music |
| Allison Nesbitt | Ph.D. Program, Anthropological Sciences |
| Stephanie Nieves | Ph.D. Program, Applied Mathematics and Statistics |
| Njoya Mbombo Oumarou | Ph.D. Program, Physics and Astronomy |

| | |
|------------------------|--|
| Kenneth Pierce | Ph.D. Program, Sociology |
| Jason Luis Quinones | Ph.D. Program, Molecular and Cellular Pharmacology |
| Sasha Rodriguez | Ph.D. Program, Sociology |
| Santiago Salinas* | Ph.D. Program, Marine and Atmospheric Sciences |
| Alvaro Segovia-Heredia | Ph.D. Program, History |
| Yamil Velez | Ph.D. Program, Political Science |

*Indicates student is a recipient of the W. Burghardt Turner Dissertation Fellowship

Graduate Council and Pieper Fellowships

- ❖ Graduate Council and Pieper Fellowships are available for exceptionally qualified incoming doctoral students. Typically, ten fellowships are available each academic year.

| | | |
|-----------------------|------------------------------------|-----------------------------|
| Amy Eakins | Anthropological Sciences | Graduate Council Fellowship |
| Sarah Pilliard | Anthropological Sciences | Graduate Council Fellowship |
| Alena Pletneva Veller | Art History | Graduate Council Fellowship |
| Connor Pitetti | English | Graduate Council Fellowship |
| Andrew Ehrinpreis | History | Graduate Council Fellowship |
| Benjamin Downs | Music | Graduate Council Fellowship |
| Karl Hinze | Music | Graduate Council Fellowship |
| Harrison Fluss | Philosophy | Graduate Council Fellowship |
| Wesley Mattingly | Philosophy | Graduate Council Fellowship |
| Matthew Harris | Political Science | Graduate Council Fellowship |
| Nicholas Battista | Applied Mathematics and Statistics | Pieper Fellowship |
| Brandi Saturley | English | Pieper Fellowship |
| Jacek Blazkiewicz | Music | Pieper Fellowship |

National Science Foundation Fellowship

- Cindy Leiton. (2009). Pharmacology, Graduate Research Fellowship, \$90,000 for three years.
National Science Foundation, Washington, DC.
- Matthew Borths. (2009). Geosciences, Graduate Research Fellowship, \$90,000 for three years.
National Science Foundation, Washington, DC.
- Jonathan Bunn. (2009). Anthropology, Graduate Research Fellowship, \$90,000 for three years.
National Science Foundation, Washington, DC.
- Robert Palomino. (2009). Chemistry, Graduate Research Fellowship, \$90,000 for three years.
National Science Foundation, Washington, DC.

Kyle Viterbo. (2009). Anthropology, Graduate Research Fellowship, \$90,000 for three years. *National Science Foundation*, Washington, DC.

Emily Rollinson (2010). Ecology and Evolution, Graduate Research Fellowship, \$90,000 for three years. *National Science Foundation*, Washington, DC.

Jasmine Valentin. (2010). Marine Sciences, Graduate Research Fellowship, \$90,000 for three years. *National Science Foundation*, Washington, DC.

James Herrera. (2010). Anthropology, Graduate Research Fellowship, \$90,000 for three years. *National Science Foundation*, Washington, DC.

Daniel DeDora. (2011). Biomedical Engineering, Graduate Research Fellowship, \$90,000 for three years. *National Science Foundation*, Washington, DC.

ANATOMICAL SCIENCES

DEPARTMENT CHAIR: WILLIAM L. JUNGERS
GRADUATE PROGRAM DIRECTOR: MAUREEN O'LEARY

❖ Grants, Fellowships, and Awards

Turner, Alan H. and **Burch, Sara H** (2011). Doctoral Dissertation Improvement Grant, \$15,000. *National Science Foundation*, Washington, DC.

Hoffmann, Simone. (2010). Turkana Basin Graduate Fellowship, \$12,000/per year. *Turkana Basin Institute*, Stony Brook, NY.

Pritchard, Adam C. (2010). Sigma Xi Grant in Aid of Research for Non-Members, \$400. *Sigma Xi: The Scientific Research Society*, Research Triangle Park, NC.

❖ Jointly Authored Publications

Borths, Matthew R. and Ausich, W.I. (2011). [Ordovician-Silurian Lilliput crinoids during the end-Ordovician biotic crisis](#). *Swiss Journal of Paleontology*, 130(1): 7-18.

❖ Abstracts, Conferences/Colloquia, Invited Talks, Presentations

Borths, Matthew R Seiffert, E., Goodenberger, K., and Simons, E. (2010). The oldest Fayum Creodont: Dental and Humeral morphology of a new proviverrine hyaenodontid from the earliest Late Eocene of Egypt. *Annual Meeting of the Society for Vertebrate Paleontology*, Pittsburgh, PA.

ANTHROPOLOGICAL SCIENCES

GRADUATE PROGRAM DIRECTOR: ERIK SEIFFERT

❖ Grants, Fellowships, and Awards

Baden, Andrea L. (2010). Conservation Grant, \$800. *Primate Conservation, Inc.: Rowe-Wright Primate Fund*, Charlestown, RI.

Baden, Andrea L. (2010). General Research Grant, \$2,013. *The Leakey Foundation*, San Francisco, CA.

McCabe, G.M., **Fernández, David.** (2010). Conservation Grant, \$2,647. *The Mohamed bin Zayed Species Conservation Fund*, Abu Dhabi, United Arab Emirates.

Gogarten, Jan. (2011). Eddie Bauer Young Explorer Grant, \$12,500. *Explorers Club*, New York, NY.

Gosselin-Ildari, Ashley. (2011). General Research Grant, \$13,300. *The Leakey Foundation*, San Francisco, CA.

Herrera, James. (2010). Conservation Grant, \$3,000. *Conservation International: Primate Action Fund Program*, Washington, DC.

Herrera, James. (2010). Le Valles des Singes Award. \$3,250. *La Conservatoire pour la Protection des Primates*, Romagne, France.

Herrera, James. (2010). Conservation Grant, \$3,250. *Primate Conservation, Inc., Rowe-Wright Primate Fund*, Charlestown, RI.

Huq, Md. Emranul. (2011). General Research Grant, \$11,880. *The Leakey Foundation*, San Francisco, CA.

Jacobs, Rachel L. (2010). Conservation Grant, \$2,452. *Primate Conservation, Inc., Rowe-Wright Primate Fund*, Charlestown, RI.

Jacobs, Rachel L. (2011). General Research Grant, \$13,497. *The Leakey Foundation*, San Francisco, CA.

Jacobs, Rachel L. (2011). Conservation Grant, \$1,980. *Primate Conservation, Inc., Rowe-Wright Primate Fund*, Charlestown, RI.

Larney, Eileen (2010). International Primatological Society Conservation Award. *International Primatological Society*, Kyoto, Japan.

Ossi-Lupo, Kerry. (2011). Ruppenthal Travel Award, \$500. *American Society of Primatologists*, Austin, TX.

Boyer, D.M., **St Clair, Elizabeth M.**, Perry, J.M.G., Grossman, A. (2010). General Research Grant, \$14,000. *The Leakey Foundation*, San Francisco, CA.

❖ Singly Authored Publications

Sisk, Matthew. (2010). [Three-dimensional Gigapan views of archaeological sites and artifacts: examples from the paleolithic of Southwest France](#). In Knelly (Ed.), *Proceedings of the Fine International Conference on Gigapixel Imaging for Science*. Paper 20, Carnegie-Mellon University, Pittsburgh, PA.

❖ Jointly Authored Publications

Wright, P.C., Tecot, S.R., Erhart, E.M., **Baden, Andrea L.**, King, S.J., Grassi, C. (2011). [Frugivory in four sympatric lemurs: implications for the future of Madagascar's forests](#). *American Journal of Primatology*, 73(6): 585-602.

Bunn, Jonathan M Boyer, D.M., Lipman, Y., St Clair, E.M., Jernvall, J., Daubechies, I. (2011). [Comparing Dirichlet normal surface energy of tooth crowns, a new technique of molar shape quantification for dietary inference, with previous methods in isolation and in combination](#). *American Journal of Physical Anthropology*, 145(2): 247-261.

Graves, Ronda R Lupo, A.C. , McCarthy, R.C., Cunningham, D.L., Wescott, D.L. (2010). [Just how strapping was KNM-WT 15000?](#) *Journal of Human Evolution*, 59(5): 542-554.

Borries, C., Lu, A., Ossi-Lupo, K., **Larney, Eileen**, Koenig, A. (2011). [Primate life histories and dietary adaptations: a comparison of Asian colobines and macaques](#). *American Journal of Physical Anthropology*, 144(2): 286-299.

Lu, A., Beehner, J.C., Czekala, N.M., Koenig, A., **Larney, Eileen**, Borries, C. (2011). [Phytochemicals and reproductive function in wild Phayre's leaf monkeys \(*Trachypithecus phayrei crepusculus*\)](#). *Hormones and Behavior*, 59(1): 28-36.

Borries, C., Lu, A., **Ossi-Lupo, Kerry**, Larney, E., Koenig, A. (2011). [Primate life histories and dietary adaptations: a comparison of Asian colobines and macaques](#). *American Journal of Physical Anthropology*, 144(2): 286-299.

Sisk, Matthew L., Shea, J.J. (2011). [The African origin of complex projectile technology: an analysis using tip-cross sectional area and perimeter](#). *International Journal of Evolutionary Biology*, Article ID 968012, DOI:10.4061/2011/968012.

Bunn, J.M., Boyer, D.M., Lipman, Y., **St Clair, Elizabeth M.**, Jernvall, J., Daubechies, I. (2011). [Comparing Dirichlet normal surface energy of tooth crowns, a new technique of molar shape quantification for dietary inference, with previous methods in isolation and in combination](#). *American Journal of Physical Anthropology*, 145(2): 247-261.

❖ Abstracts, Conferences/Colloquia, Invited Talks, Presentations

Al-Dafar Hamdani, Abdulameer. (2011). The current situation of antiquities and archaeological sites in Iraq. *Cultural Heritage Now: Iraq and Beyond. The Legacy of Donny George Youkhanna*. Rutgers, State University of New Jersey.

Al-Dafar Hamdani, Abdulameer. (2011). Iraq: Saving Iraq's ancient heritage at Ur. *Global Heritage Conservation and Sustainable Development*. Global Heritage Fund, Hunter College, NY.

Baden, Andrea L., Louis, E.E., Bradley, B.J. (2011). Cooperation confers fitness benefits in a communal nesting primate. *80th Annual Meeting of the American Association of Physical Anthropologists*, Minneapolis, MN.

- Jacobs, R.L., **Baden, Andrea L.**, Rabemaharavonirina, R.N., Bradley, B.J. (2011). Variation in foraging behavior and color vision status in wild female black-and-white ruffed lemurs. *80th Annual Meeting of the American Association of Physical Anthropologists*, Minneapolis, MN.
- Arrigo-Nelson, S.J., **Baden, Andrea L.**, Salisbury, R.L., Wright, P.C., McGee, E.M. (2010). The adaptive significance of geophagy in the Milne-Edwards' sifaka (*Propithecus edwardsi*) at Ranomafana National Park, Madagascar. *23rd Congress of the International Primatological Society*, Kyoto, Japan.
- Blatch, Stephanie**, Marchi, D., Jungers, W.L. (2011). Relative robusticity of the *Homo floresiensis* tibia and fibula. *80th Annual Meeting of the American Association of Physical Anthropologists*, Minneapolis, MN.
- Bunn, Jonathan M** Jernvall, J. (2011). Comparing estimated ontogenetic molar wear rates of *Australopithecus africanus* and *Paranthropus robustus*. *80th Annual Meeting of the American Association of Physical Anthropologists*, Minneapolis, MN.
- Boyer, D.M., Cooke, S.B., **Bunn, Jonathan M** St Clair, E.M. (2011). Dental topographic variables (Orientation Patch Count, Relief Index, Dirichlet Energy) of platyrrhine second mandibular molars. *80th Annual Meeting of the American Association of Physical Anthropologists*, Minneapolis, MN.
- Ledogar, J.A., **Bunn, Jonathan M** St Clair, E.M., Boyer, D.M. (2011). Dental topographic analysis of pitheciine (*Pithecia*, *Chiropotes*, *Cacajao*) second mandibular molars. *80th Annual Meeting of the American Association of Physical Anthropologists*, Minneapolis, MN.
- Elder, Alice A.** (2011). The influence of body mass and ecological similarity on dominance relationships among three sympatric primate species. *80th Annual Meeting of the American Association of Physical Anthropologists*, Minneapolis, MN.
- Erb, Wendy M.**, Ziegler, T., Hammerschmidt, K. (2010). Are male loud calls costly signals in a folivorous primate (*Simias concolor*)? *47th Annual Meeting of the Animal Behavior Society*, Williamsburg, VA.
- McCabe, G.M., **Fernández, David**, Ehardt, C.L. (2011). Infant mortality in wild Sanje mangabeys, *Cercocebus sanjei*. *80th Annual Meeting of the American Association of Physical Anthropologists*, Minneapolis, MN.
- Gogarten, Jan F.**, Koenig, A. (2011). Does breeding seasonality predict receptive synchrony and reproductive skew among non-human primates? *80th Annual Meeting of the American Association of Physical Anthropologists*, Minneapolis, MN.
- Gosselin-Ildari, Ashley D.** (2011). Phylogenetic and functional signals in the astragalus of cercopithecoids. *80th Annual Meeting of the American Association of Physical Anthropologists*, Minneapolis, MN.
- Kirk, E.C., Ludeman, E., Blaylock, A., **Gosselin-Ildari, Ashley D.** (2011). Cochlear labyrinth size and hearing abilities in mammals. *80th Annual Meeting of the American Association of Physical Anthropologists*, Minneapolis, MN.
- Graves, Ronda R.**, Koenig, A. (2011). Hominoid behavior in ecological and phylogenetic context: is it all in the (super) family ? *80th Annual Meeting of the American Association of Physical Anthropologists*, Minneapolis, MN.

- Herrera, James P.**, Johnson, S., Taglia, S., Brown, L., Wright, P.C. (2010). Lemur population sizes in forest edges and interior. *Student Conference on Conservation Science New York*, American Museum of Natural History, New York, NY.
- Herrera, James P.** (2011). The history and mystery of lemurs on Madagascar. *RISE program*, Long Island University, Brooklyn, NY.
- Herrera, James P.**, Taylor, L.L., Evans, S. (2011). Use of auditory and olfactory signals in night monkeys (*Aotus nancymae*). *80th Annual Meeting of the American Association of Physical Anthropologists*, Minneapolis, MN.
- Holowka, Nicholas.** (2011). A comparative study of the anatomical mechanical advantage of the elbow flexor and extensor muscles in anthropoid primates. *80th Annual Meeting of the American Association of Physical Anthropologists*, Minneapolis, MN.
- Huq, Emranul**, Wall, C.E., Taylor, A.B. (2011). A preliminary comparison of spinal-extensor muscle fiber architecture in *Galago senegalensis* and *Nycticebus coucang*. *80th Annual Meeting of the American Association of Physical Anthropologists*, Minneapolis, MN.
- Jacobs, Rachel L.**, Baden, A.L., Rabemaharavonirina, R.N., Bradley, B.J. (2011). Variation in foraging behavior and color vision status in wild female black-and-white ruffed lemurs. *80th Annual Meeting of the American Association of Physical Anthropologists*, Minneapolis, MN.
- Larney, Eileen**, Rafaliarison, R.R., Wright, P.C. (2010). Coping in a degraded habitat: Behavioral ecology of a population of greater bamboo lemurs (*Prolemur simus*) in Ivato, southeastern Madagascar. *23rd Congress of the International Primatological Society*, Kyoto, Japan.
- Larney, Eileen** (2011). The state of the environment in Madagascar. *UNICEF Madagascar*, Antananarivo, Madagascar.
- Larney, Eileen**, Rafaliarison, R.R., Wright, P.C. (2011). Working to save *Prolemur simus* in southeastern Madagascar: update from Ivato and Karianga. *2nd International Technical Meeting on Prolemur simus*, Andasibe, Madagascar.
- Maiolino, Stephanie.** (2011). Grooming claws: What are they and who has them? *80th Annual Meeting of the American Association of Physical Anthropologists*, Minneapolis, MN.
- Ossi-Lupo, Kerry**, Koenig, A. (2010). The role of dietary toughness for juvenile Phayre's leaf monkeys. *47th Annual Meeting of the Animal Behavior Society*, Williamsburg, VA.
- Rost, Stephanie.** (2010). A study of traditional irrigation practices in South Iraq under archaeological and philological considerations. *Annual Meeting of the American School of Oriental Research*, Atlanta, GA.
- Rost, Stephanie**, Wright, D., Woodson, K. (2011). Application of remote sensing technologies for understanding buried canals on the Gila River Indian Community, Arizona. *76th Annual Meeting of the Society of American Archaeologist*, Sacramento, CA.
- Salmi, Roberta**, Doran-Sheehy, D.M. (2011). Vocal repertoire of wild western gorillas (*Gorilla gorilla*) at Mondika Research Center, Republic of Congo. *80th Annual Meeting of the American Association of Physical Anthropologists*, Minneapolis, MN.

- Scarry, Clara.** (2011). Experimental analyses of intergroup encounters among tufted capuchin monkeys: effects of resource quality and female sexual behavior. *80th Annual Meeting of the American Association of Physical Anthropologists*, Minneapolis, MN.
- Tujague, M.P., **Scarry, Clara.** (2011). Consequences of changing numerical asymmetries on intergroup relations among tufted capuchins: a case study. *80th Annual Meeting of the American Association of Physical Anthropologists*, Minneapolis, MN.
- Sisk, Matthew.** (2011). The Aurignacian rock engravings of Abri Castanet: 3D documentation and analysis. *Annual Meeting of the Paleoanthropology Society*, Minneapolis, MN.
- Boyer, D.M., Lipman, Y., **St Clair, Elizabeth M.**, Puente, J., Jernvall, J. (2010). An algorithm using intrinsic geometry of anatomical structures for automatic identification of homologous features. *70th Annual Meeting of the Society of Vertebrate Paleontology*, Pittsburgh, PA.
- St Clair, Elizabeth M.** (2011). Geometric morphometric analysis of platyrrhine lower molar shape. *80th Annual Meeting of the American Association of Physical Anthropologists*, Minneapolis, MN.
- Boyer, D.M., Cooke, S.B., Bunn, J.M., **St Clair, Elizabeth M.** (2011). Dental topographic variables (Orientation Patch Count, Relief Index, Dirichlet Energy) of platyrrhine second mandibular molars. *80th Annual Meeting of the American Association of Physical Anthropologists*, Minneapolis, MN.
- Ledogar, J.A., Bunn, J.M., **St Clair, Elizabeth M.**, Boyer, D.M. (2011). Dental topographic analysis of pitheciine (*Pithecia*, *Chiropotes*, *Cacajao*) second mandibular molars. *80th Annual Meeting of the American Association of Physical Anthropologists*, Minneapolis, MN.
- Wallace, Ian**, Garland, T. Jr., Wallace, S.A., Middleton, K.M., Kelly, S.A., Judex, S., Demes, B., (2011). Genetic and epigenetic effects on diaphyseal morphology in selectively bred mice with the mini-muscle allele. *Annual Meeting of the Society for Integrative and Comparative Biology*, Salt Lake City, UT.

❖ **Post-Doctorates Obtained and Professional Appointments**

- Larney, Eileen.** (2010-2011). Chief Technical Advisor. Institute for the Conservation of Tropical Environments, *Centre ValBio*, Ranomafana, Madagascar.

APPLIED MATHEMATICS AND STATISTICS

DEPARTMENT CHAIR: JAMES GLIMM
GRADUATE PROGRAM DIRECTOR: DAVID GREEN

❖ Grants, Fellowships, and Awards

- Balius, Trent E.** (2010). National Research Service Award, \$31,121. *National Cancer Institute, National Institutes of Health*, Bethesda, MD.
- Carrascal, Noel.** (2010). FASEB MARC Program Travel Award. \$1,850. *Federation of American Societies for Experimental Biology*. Bethesda, MD.
- Carrascal, Noel.** (2011). NYSBDG Poster Award. \$100. *New York Structural Biology Discussion Group*, New York, NY.
- Mukherjee, Sudipto** (2011). Chemical Computing Group Excellence Award, \$1,150. *Computers in Chemistry Division, American Chemical Society*, Washington, DC.
- Patsalo, Vadim** (2010). Best Poster Award. \$350, *24th Annual Symposium of the Protein Society*, San Diego, CA.

❖ Book Publication

- Chen, Paichuan.** (2011). [Extending the quandt Ramsey modeling to survival analysis: Finding the MLE of the mixture of two exponential survival functions](#). Colne, Germany. LAP Lambert Academic Publishing.

❖ Jointly Authored Publications

- Balius, T.E., Mukherjee S., Sand Rizzo, R.C.** (2011). [Implementation and evaluation of a docking-rescoring method using molecular footprint comparisons](#). *Journal of Computational Chemistry*, 32(10).
- Greenberg, T., **Rubin, D** and Mujica-Parodi, L.R. (2010). [Feeling anxious: Anticipatory amygdalo-insular response predicts the feeling of anxious anticipation](#). *Social Cognitive Affective Neuroscience*, DOI: 10.1093/scan/nsq01.
- Chen, J.J., **Zhang, G.X.**, Chen, J., & Steinhardt G.F. (2011). [Simple moment-based inferences of generalized concordance correlation](#). *Journal of Applied Statistics*, DOI: 10.1080/02664763.2010.529884.
- Duan, C.J., Liang, Z.R., Bao, S.L., Zhu, H.B., Wang, S., **Zhang, G.X.**, Chen, J.J., & Lu, H.B. (2010). [A Coupled level set framework for bladder wall segmentation with application to MR cyptography](#). *IEEE Transactions on Medical Imaging*, 29(3): 903-915.
- Fekete, T., **Rubin, D**, Carlson, J.M. and Mujica-Parodi, L.R. (2011). [A stand-alone method for anatomical localization of NIRS measurements](#). *Neuroimage*, 56(4):2080-8.
- Kaman, T.**, Glimm, J. and Sharp, D.H. (2010). [Initial conditions for turbulent mixing simulations](#). *Condensed Matter Physics*, 13(4): 43401.

- Laxmi, Y.R., Liu, X., Suzuki, N., Kim, S.Y., Okamoto, K., Kim, H.J., **Zhang, G.X.**, Chen, J.J., Okamoto, Y., & Shibutani, S. (2010). [Anti-breast cancer potential of SS1020, a novel antiestrogen lacking estrogenic and genotoxic actions.](#) *International Journal of Cancer*, 127(7): 1718-26.
- Lee, H** Malaspina, D., Ahn, H., Perrin, M., Opler, M. G., Kleinhaus, K., Harlap, S., Goetz, R. and Antonius, D. (2011). [Paternal age related Schizophrenia \(PARS\): Latent Subgroups Detected by K-Means Clustering Analysis.](#) *Schizophrenia Research*, (128): 143-149.
- Lim, H., Iwerks, J.,** Yu, Y., Glimm, J. and Sharp, D.H. (2010). [Verification and validation of a method for the simulation of turbulent mixing.](#) *Physica Scripta*, (T142): 014014.
- Mukherjee, S., Balius, T.E.** and Rizzo, R.C. (2010). [Docking validation resources: Protein family and ligand flexibility experiments.](#) *Journal of Chemical Information and Modeling*, 50 (11): 1986-2000.
- A., **Rubin, D,** Strey, H.H. and Mujica-Parodi, L.R. (2011). [Power spectrum scale invariance identifies prefrontal-limbic dysregulation in paranoid schizophrenia.](#) *Human Brain Mapping*, DOI: 10.1002/hbm.21309.
- Rubin, D,** Botanov, Y., Hajcak, G. and Mujica-Parodi, L.R. (2011). [Second-hand stress: Inhalation of stress sweat enhances neural response to neutral faces.](#) *Social Cognitive Affective Neuroscience*, DOI: 10.1093/scan/nsq09.
- Suzuki, N., Liu, X., Laxmi, Y.R., Okamoto, K., Kim, H.J., **Zhang, G.X.**, Chen, J.J., Okamoto, Y., & Shibutani, S. (2011). [Anti-breast Cancer Potential of SS5020, a Novel Benzopyran Antiestrogen.](#) *International Journal of Cancer*, 128(4): 974–982.
- Tolkunov, D., **Rubin, D** and Mujica-Parodi, L.R. (2010). [Power spectrum scale invariance quantifies limbic dysregulation in trait anxious adults using fMRI: adapting methods optimized for characterizing autonomic dysregulation to neural dynamic timeseries.](#) *Neuroimage*, 50(1):72-80.

❖ **Essay/Article in a Book Publication**

- Feinberg, E.A. and **Yang, F.** (2010). [Optimal admission for a queue with several types of customers and holding costs.](#) in A.B. Piunovskiy (Ed.), *Modern Trends in Controlled Stochastic Processes: Theory and Applications*, Luniver Press, UK.

❖ **Conference Proceedings**

- Iwerks, J** and Mitchell, J.S.B. (2011). [Spiral serpentine polygonization of a planar point set.](#) *XIV Spanish Meeting on Computational Geometry*, (181-184).
- Biedl, T., Irfan, M T., **Iwerks, J, Kim, J.** and Mitchell, J.S.B. (2011). [Guarding polyominoes.](#) *27th Annual Symposium on Computational Geometry*, (387-396).

❖ **Abstracts, Conferences/Colloquia, Invited Talks, Presentations**

- Au, L.** and Green, D.F. (2011). Understanding mutability of highly conserved residues in multiple fitness contexts. *New York Structural Biology Discussion Group Sixth Winter Meeting*, New York, NY.
- Au, L.** and Green, D.F. (2011). Understanding mutability of highly conserved residues in multiple fitness contexts. *New York Theoretical and Computational Chemistry Conference*, New York, NY.

- Au, L.** and Green, D.F. (2010). Understanding mutability of highly conserved residues in multiple fitness contexts. *Biological Design: Fourth Annual Advances in Biomolecular Engineering Symposium*. New York, NY.
- Au, Land Green, D.F.** (2010). A computational protocol for quantifying interaction specificity between protein families. *24th Annual Symposium of the Protein Society*, San Diego, CA.
- Balius, T.E., Mukherjee, S., Rizzo, R.C.** (2010). Molecular interaction footprints: A docking rescoring method. *240th American Chemical Society National Meeting & Exposition*, Boston, MA.
- Balius, T., Mukherjee, S., Rizzo R.C.** (2011). Development and application of footprint similarity scoring as a docking and virtual screening tool. *241th American Chemical Society National Meeting & Exposition*, Anaheim, CA.
- Carrascal, N** and Green, D.F. (2011). Computational models provide insights into heterotrimeric G-protein function. *24th Annual Symposium of the Protein Society*, San Diego, CA.
- Carrascal, N** and Green, D.F. (2011). Dissecting heterotrimeric G-protein function with energetic component analysis. *New York Theoretical and Computational Chemistry Conference*, New York, NY.
- Carrascal N.** and Green, D.F. (2011). Dissecting heterotrimeric G-protein function with energetic component analysis. *New York Structural Biology Discussion Group*, New York, NY.
- Feinberg, E.A. and **Yang, F.** (2010). Optimal Admission to M/M/k/N Queues with Several Customer Types and Holding Costs. *INFORMS Annual Meeting*, Austin, TX.
- Hu, Yijing.** (2011). Front Tracking Method on Precipitation with Subsurface Flow. *SIAM Conference on Computational Science & Engineering*, Reno, NV.
- Jiang, L.L.** and Rizzo, R. C. (2011). Binding affinity prediction for HIVgp41 inhibitors using thermodynamic integration molecular dynamics simulations. *CRA-W Grad Cohort Workshop*, Boston, MA.
- Jiang, T.** and Green, D.F. (2010). Qualitative and quantitative diversity in heterotrimeric G-protein signaling. *Biological Design: 4th Annual Advances in Biomolecular Engineering Symposium*, New York, NY.
- Jiang, T.** and Green, D.F. (2011). Qualitative and quantitative diversity in heterotrimeric G-protein signaling. *New York Theoretical & Computational Chemistry Conference*, New York, NY.
- Iwerks, Justin.** (2011). Guarding polyominoes. *UICP*, Paris, France.
- Kaman, T., Lim, H., Glimm, J. and Sharp, D.H.** (2011). Rayleigh-Taylor turbulent mixing simulations. *SIAM Conference on Computational Science & Engineering*, Reno, NV.
- Kim, Joung-Dong.** (2011). Front tracking method on fluid structure interaction. *SIAM SIAM Conference on Computational Science & Engineering*, Reno, NV.
- Mo, Y., Xing, H., Liao, W** and Zhang, M.Q. (2011). A novel Bayesian change-point (BCP) model for better ChIP-seq data analyses. *High-Throughput Biology*, Suzhou, People's Republic of China.
- Mo, Y., Xing, H., Liao, W** and Zhang, M.Q. (2011). A novel Bayesian change-point (BCP) model for better ChIP-seq data analyses. *The Biology of Genomes*, Cold Spring Harbor, NY.

Mukherjee, S., Balius, T.E. and Rizzo, R.C. (2010). Pose accuracy using DOCK: Database construction and protocol evaluation. *240th American Chemical Society National Meeting & Exposition*, Boston, MA.

Mukherjee, S., Balius, T.E. and Rizzo, R.C. (2011). Algorithmic improvement and development for DOCK6.4. *241th American Chemical Society National Meeting & Exposition*, Anaheim, CA.

Mukherjee, S., Balius, T.E. and Rizzo, R.C. (2011). Development of the SB2010 testset to evaluate docking. *241th American Chemical Society National Meeting & Exposition*, Anaheim, CA.

Lihm, Jayon. (2010). Comparison of rare variants tests. *Genetic Analysis Workshop 17*, Cambridge, MA.

Patsalo, V., Raleigh, D.P. and Green, D.F. (2010). Stabilization of cyanovirin-N, a potent HIV-inhibiting lectin. *24th Annual Symposium of the Protein Society*, San Diego, CA.

Patsalo, V., Raleigh, D.P. and Green, D.F. (2011). Design of a modular lectin scaffold for combinatorial screening against heterogeneous glycan targets. *Gordon Carbohydrates Conference*, Waterville, ME.

Wei, H. and Samulyak, R. (2011). Mesoscale models and numerical algorithms for fracture of solids, *ASME Applied Mechanics and Materials Conference*, Chicago, IL.

Zhang, G.X. & Chen, J.J. (2010). Adaptive fitting of linear mixed-effects models with correlated random-effects. *Joint Statistical Meetings*, Vancouver, BC, Canada.

Zhang, G.X. & Chen, J.J. (2010). Adaptive fitting of linear mixed-effects models with “correlated” random-effects. *The 19th Annual ICSA 2010 Applied Statistics Symposium*, Indianapolis, IN.

❖ **Patents**

Feinberg, E.A. and **Curry, M.**, (Issued 12/2010). *Frequency Based Methods for Scheduling Jobs with Hard Constraints*, Patent Number 7856369.

❖ **Post-Doctorates Obtained and Professional Appointments**

Xiaoxuan Zhang. (2011). Post Doctoral Fellow, Mathematical Center, *IBM Watson Research Center*, Yorktown Heights, NY.

❖ **Software Developed**

Wu, Jie (2010). SpliceTrap. Alternative Splicing Quantification from RNA-seq Data. *Cold Spring Harbor*, NY.

ART

DEPARTMENT CHAIR: JOHN LUTTERBIE
GRADUATE PROGRAM DIRECTOR: (ARH) MICHELE BOGART
(MFA) STEPHANIE DINKINS

❖ Grants, Fellowships, and Awards

Nancy R. Aries, **Grove, Jaleen**. (2011). Rockwell Center Dissertation Fellowship, \$1500. *Norman Rockwell Museum*, Stockbridge, MA.

❖ Singly Authored Publications

Grove, Jaleen. (2010). [Walter Haskell Hinton. Illustrator of the Popular American West](#). *Knoxville: Ewing Gallery*, University of Tennessee, Knoxville, TN.

❖ Abstracts, Conferences/Colloquia, Invited Talks, Presentations

Cellerini, Kathryn. (2011). Conceptual Considerations and Exploration of the Hand-Printing Process. *Awaji Westin International Conference Center*, Hyogo, Japan.

Grove, Jaleen. (2010). A Cultural Trade: Canadian Commercial Illustrators at Home and in the United States, 1880-2010. *Association of Historians of American Art*, Albert College, Brooklyn, NY.

Grove, Jaleen. (2010). Chatelaine's Early Women Illustrators and the Invention of the Modern Canadian Woman. *University Art Assoc. of Canada*, University of Guelph, Guelph, ON, Canada.

Grove, Jaleen. (2011). Illustrator as Cultural Mediator: Walter Haskell Hinton's Depiction of Native Americans in Mammoth Western. *Popular Culture Association of Canada*, Niagara Falls, ON, Canada.

Grove, Jaleen. (2011). Canadian Women Illustrators of the 1930s. *Toronto Arts and Letters Club*, Toronto, ON, Canada.

❖ Internship Appointment

McCurdy, Alisha. (2010). Development Intern, *SculptureCenter*, Long Island City, NY.

❖ Exhibitions

McCurdy, Alisha. (2011). Honoring the Page: Book Arts. *Gallery North*, Setauket, NY.

McCurdy, Alisha. (2011). In the Seams. *Oasis Gallery*, Marquette, MI.

McCurdy, Alisha. (2011). Cascade Print Exchange V. *Fairbanks Hall Main Gallery*, Oregon State University, Corvallis, OR.

McCurdy, Alisha. (2011) . Best of SUNY Exhibition. *New York State Museum*, Albany, NY.

McCurdy, Alisha. (2011). College Art Association New York Regional MFA Exhibition, *Hunter College / Times Square Gallery*, New York, NY.

McCurdy, Alisha. (2011). SUNY Student Exhibition, *SUNY Plaza*, Albany, NY.

McCurdy, Alisha. (2010). A Book About Death. *Student Art League Gallery, Long Island University, C. W. Post campus, Brookville, NY.*

McCurdy, Alisha. (2010). Cutting Edge: A Celebration of Fibers. *Textile Arts Center, Brooklyn, NY.*

McCurdy, Alisha. (2010). Trans-IT-ions, *Tribute Gallery, Portland, OR.*

❖ **Exhibitions/Performances**

Cellerini, Kathryn. (2011) . Cogitations. *Full Circle Gallery, Portland, OR.*

Cellerini, Kathryn. (2011) . Ecosystems of Dukkah. *Whaleback Environmental Film and Art Festival, Portsmouth, NH.*

Cellerini, Kathryn. (2010). Mirror Eyes. *Spain Culture in New York, Times Square, New York City, NY.*

Cellerini, Kathryn. (2011) . Cascade Print Exchange V. *Oregon State University Main Gallery, Corvallis, OR.*

Cellerini, Kathryn. (2011) . Emerging. *Gallery North, Stony Brook, NY.*

Cellerini, Kathryn. (2011). CAA NY Area MFA Exhibition. *Hunter College Times Square Gallery, New York City, NY.*

Cellerini, Kathryn (2010). Art Inspired by Science. *Schneider Art Museum at Southern Oregon University, Ashland, OR*

Grove, Jaleen . (2010). Society of Illustrators Educators' Forum, New York City, NY.

Grove, Jaleen (2011). Art in the County. *Old Town Hall, Picton, ON, Canada.*

BIOCHEMISTRY AND STRUCTURAL BIOLOGY

DEPARTMENT CHAIR: ROBERT HALTIWANGER
GRADUATE PROGRAM DIRECTOR: ERWIN LONDON

❖ Jointly Authored Publications

- Ahmed, M.**, Davis, J., Aucoin, D., Sato, T., Ahuja, S., Aimoto, S., Elliot, J., Van Nostrand, W., Smith, S. (2010). [Structural conversion of neurotoxic A \$\beta\$ 42 oligomers to fibrils](#). *Nature Struct. Molec. Biology*, (17):561-567.
- Liao, M., Hoos, M., Aucoin, D., **Ahmed, M.**, Davis, J., Smith, S., Can Nostrand, W. (2010). [Amino terminal domain of myelin basic protein inhibits amyloid \$\beta\$ -protein fibril assembly](#). *J. Biol. Chem.*, DOI: 10.1074/jbc.M110.169599.
- Aisiku OR** Runnels, L., Runnels LW, Scarlata S. (2010). [Identification of a novel binding partner of phospholipase c \$\beta\$ 1: translin-associated factor X](#). *PLoS One*. 5(11):e15001. Pub Med PMID: 21124736; PubMed Central PMCID: PMC2993962.
- Al-Shareffi, E.**, Chaubard, J.-L., Leonhard-Melief, C., and Haltiwanger, R.S. (2010). Analysis of the O-Fucose Proteome, *Glycobiology*, (20): 1468a.
- Ahmed, M., Davis, J., **Aucoin, D.**, Sato, T., Ahuja, S., Aimoto, S., Elliot, J., Van Nostrand, W., Smith, S. (2010). [Structural conversion of neurotoxic A \$\beta\$ 42 oligomers to fibrils](#). *Nature Struct. Molec. Biology*, (17):561.
- Aucoin, D.** (2010). Amino terminal domain of myelin basic protein inhibits amyloid β -protein fibril assembly, *J. Biol. Chem.*, (285): 35590.
- Yakubovskaya E, Mejia E, **Byrnes J**, Hambardjiev E Garcia-Diaz M. (2010). [Helix unwinding and base flipping enable human MTERF1 to terminate mitochondrial transcription](#). *Cell*, 11;141(6):982-93. PubMed PMID: 20550934; PubMedCentral PMCID: PMC2887341.
- Wang, X., **Hang, S.**, Prazak, L. and Gergen, J.P. (2010). [NELF potentiates gene transcription in the *Drosophila* embryo](#). *PLoS ONE*, 5:e11498. PMID:20634899.
- Walrad, P.B., **Hang, S.**, Joseph, G.S., Salas, J. and Gergen, J.P. (2010). [Distinct contributions of conserved modules to Runt transcription factor activity](#). *Mol Biol Cell*, 21(13):2315-26. PMID: 20462957.
- Wang, X. , **Hang, S.**, Prazak, L. and Gergen, J.P. (2010). [NELF potentiates gene transcription in the *Drosophila* embryo](#). *PLoS ONE*, 5:e11498. PMID:20634899.
- Walrad, P. B., **Hang, S.** and Gergen, J.P. (2011). [Hairless is a co-factor for Runt-dependent transcriptional regulation](#). *Mol Biol Cell*, (16): PMID:21326629.

❖ **Abstracts, Conferences/Colloquia, Presentations, Symposiums, Workshops**

Kim, Ah-Ram (2010). When Two Plus Two Doesn't Equal Four: Modeling Non-Additive Enhancer Behavior in the *Drosophila melanogaster* eye. *New York Area Drosophila Discussion Group Meeting (NYAS)*, New York, NY.

Kim, Ah-Ram. (2010). The prediction of gene expression from sequence in *Drosophila*: enhancers and beyond. *7th Annual RECOMB Satellite on Regulatory Genomics*, New York, NY, USA.

Kim, Ah-Ram (2011). Breaking the code in *Drosophila* genome: enhancers and beyond. *CCSB/P50 Annual Retreat*, Chicago, IL.

Kim, Ah-Ram (2011). Beyond enhancers: a quantitative, analytic, and predictive model of transcriptional control. *Summer Symposium on Transcriptional Dynamics, Evolution, and Systems Biology*, East Lansing, MI.

BIOMEDICAL ENGINEERING

DEPARTMENT CHAIR: CLINTON RUBIN
GRADUATE PROGRAM DIRECTOR: HELMUT STREY

❖ Grants, Fellowships, and Awards

Acerbo, A.S. (2011). Alice L. Jee Memorial Young Investigator Award, \$800. *International Bone & Mineral Society*, Chicago, IL.

DeDora, D. (2011). Graduate Research Fellowship Program, \$121,500, *National Science Foundation*, Washington, DC.

DeDora, D. (2011). Graduate Research Diversity Supplement, \$101,436, *National Science Foundation*, Washington, DC.

Maramraju, S. H. (2011). First place, Young Investigator Award, \$600. *Society of Nuclear Medicine (SNM) Annual Meeting*, San Antonio, TX.

Maramraju, S. H. (2011). Basic Science Award, \$100. Young Professionals Committee, *Society of Nuclear Medicine (SNM) Annual Meeting*, San Antonio, TX.

Maramraju, S. H. (2011). Graduate Scholarship Award, \$1500. Nuclear and Plasma Sciences Society (NPSS), *Institute of Electrical and Electronics Engineering (IEEE)*.

Maramraju, S. H. (2010). Paul Phelps Continuing Research Grant, \$500. *IEEE Medical Imaging Conference*, Knoxville, TN.

❖ Jointly Authored Publications

Goren, A.D., **Bonvento, M.**, Fernandez ,T.J., Abramovitch, K., Zhang, W., Roe, N., Seltzer, J., Steinberg, M., Colosi, D.C. (2011). [Evaluation of radiation exposure with Tru-Align intraoral rectangular collimation system using OSL dosimeters.](#) *The New York State Dental Journal*, 77(2): 22-27.

Claiborne, T. E., Girdhar, G., Gallocher-Lowe, S., Sheriff, J., Kato, Y. P., Pinchuk, L., Schoephoerster, . T., Jesty, J. & Bluestein, D. (2011). [Thrombogenic potential of innovia polymer valves versus Carpentier-Edwards perimount magna aortic bioprosthetic valves.](#) *ASAIO Journal*, 57(1): 26-31.

Feng, X Grossman, R. Stein, L. (2011). [PeakRanger: A cloud-enabled peak caller for ChIP-seq data.](#) *BMC Bioinformatics*, 12(1): 139.

Consortium, T. M., S. Roy, J. Ernst, P. V. Kharchenko, P. Kheradpour, N. Negre, M. L. Eaton, J. Landolin, M. , Bristow, C.A., Ma, L., M. Lin, M.F., Washietl, S., Arshinoff, B.I., Ay, F., Meyer, P.E., Robine, N., Washington, N.L., Di Stefano, L., Berezikov, E., Brown, C.D., Candeias, R., Carlson, J.W., Carr, A., Jungreis, I., Marbach, D., Sealton, R., Tolstorukov, M.Y., Will, S., Alekseyenko, A.A., Artieri, C., Booth, B.W., Brooks, A.N., Dai, Q., Davis, C.A., Duff, M.O., **Feng, X.** (2010). [Identification of Functional Elements and Regulatory Circuits by Drosophila modENCODE](#), *Science* 330, (6012): 1787-1797.

Gerstein, M. B., Lu, Z.J., Van Nostrand, E.L., Cheng, C., Arshinoff, B.I., Liu, T., Yip, K.Y., Robilotto, R., Rechtsteiner, A., Ikegami, K., Alves, P., Chateigner, A., Perry, M., Morris, M., Auerbach, R.K., **Feng, X.** et al. (2010). [Integrative analysis of the Caenorhabditis elegans genome by the modENCODE project.](#) *Science*, 330(6012): 1775-1787.

Nègre, N., Brown, C.D., Shah, P.K., Kheradpour, P., Morrison, C.A., Henikoff, J.G., **Feng, X** Ahmad, K., Russell, S., R. White, A.H., Stein, L., Henikoff, S., Kellis, M. & White, K.P. (2010). [A comprehensive map of insulator elements for the Drosophila genome.](#) *PLoS Genet*, 6(1): e1000814, DOI:10.1371/journal.pgen.1000814.

Wu, G., **Feng, X.** & Stein, L. (2010). [A human functional protein interaction network and its application to cancer data analysis.](#) *Genome Biology*, 11(5): R53.

Soares, A.S., **Engel, M. A.**, Stearns, R., Datwani, S., Olechno, J., Ellson, R., Skinner, J.M., Allaire, M. & Orville, A.M. (2011). [Acoustically mounted microcrystals yield high-resolution X-ray structures.](#) *Biochemistry*, 50(21): 4399–4401.

Leigh, S.Y., Tattu, A., Mitchell, J.S.B., Entcheva, E. (2011). [M³: Microscope-based maskless micropatterning with dry film photoresist.](#) *Biomedical Microdevices*, 13(2): 375-81.

Maramraju, S. H., Smith, S. D, Junnarkar, S. S., Schulz, D., Stoll, S., Ravindranath, B., Purschke, M. L., Rescia, S., Southekal, S., Pratte, J. F., Vaska, P., Woody, C. L. & Schlyer, D. J. (2011). [Small animal simultaneous PET/MRI: initial experiences in a 9.4 T microMRI.](#) *Physics in Medicine and Biology*, 56 2459 doi:10.1088/0031-9155/56/8/009, 2459-80.

❖ Abstracts, Conferences/Colloquia, Invited Talks, Presentations

Acerbo, A.S. (2010). Perspective on X-ray scattering in bone research. *Brookhaven National Laboratory*, Upton, NY.

Acerbo, A.S., Tommasini, S.M., Trinward, A., Judex, S., & Miller, L.M. (2011). Modulation of the Material Properties of Bone by Estrogen Withdrawal and Osteoporosis Treatments. *Brookhaven National Laboratory*, Upton, NY.

Engel, M. A. & Davis, S. (2011). Financing Biotech in 2021. *JP Morgan /Connecticut Innovations / Center for Biotechnology / Fundamentals of the Bioscience Industry Program - Alumni Network Seminar Series*, New York, NY.

Dudu, V., Dao, D., **Engel, M. A.**, Prasad, A. & Vieira, E. (2011). Social Media in Healthcare. *Mount Sinai School of Medicine / Center for Biotechnology / Fundamentals of the Bioscience Industry Program - Alumni Network Seminar Series*, New York, NY.

Dudu, V., Dao, D., **Engel, M. A.**, Prasad, A. & Vieira, E. (2010). Integrating Personalized Health Care into Clinical Practice. *Mount Sinai School of Medicine / Center for Biotechnology / Fundamentals of the Bioscience Industry Program - Alumni Network Seminar Series*, New York, NY.

Feng, X Grossman, R. & Stein, L. (2011). Peak Ranger: A cloud-enabled peak caller for ChIP-seq data. *NHGRI modENCODE Consortium Meeting*, Washington, DC.

Feng, X Grossman, R. & Stein, L. (2011). Peak Ranger: A Cloud-Enabled Peak Caller for ChIP-seq Data. *Cold Spring Harbor The Biology of Genomes*, Cold Spring Harbor, NY.

Feng, X Sabala M., Grossman, R. & Stein, L. (2010). Cloud Computing for Chromatin IP Sequencing Peak Calling. *Beyond the Genome*, Boston, MA.

Feng, X. & Stein, L. (2010). High Resolution Peak Calling for Chromatin IP Sequencing. *Cold Spring Harbor Laboratory & Wellcome Trust Sanger Institute Genome Informatics Meeting*, Cold Spring Harbor, NY.

Feng X., Zha Z., Liu C., Wang L. and Stein, L. (2010). Get all ChIP-Seq peaks in one click: Two Integrated Pipelines for the modENCODE Peak Recalling Project. *NHGRI modENCODE Consortium Meeting*, Washington, DC.

Green, D.E., Adler, B., Chan, M., Rubin, C.T. (2010). A Collapse in Bone Marrow Stroma Cells Caused by Sublethal Irradiation Precedes Damage to Trabecular Microarchitecture. *Endocrine Fellow Forum at the American Society for Bone and Mineral Research Annual Conference*, Toronto, Canada.

Maramraju, S. H. (2011). Small Animal Simultaneous PET/MRI: Initial Experiences in a 9.4 T MicroMRI. *The Aarhus PET-MR Hybrid Scanner Workshop*, Aarhus University Hospital, Skejby, Denmark.

Ren, H., Bhalla R.S., Miles, R.A., Mishail, A., Pan, R., Waltzer, W.C. & Pan, Y.T. (2011). Flexible Hybrid Cystoscopy/Optical Coherence Tomography for Early Bladder Cancer Diagnosis and Guided Tumor Resection. *Sigma XI Northeastern Research Symposium*, Stony Brook, NY.

Sitharaman, Balaji, **Rengaraj Sugumaran, Ajaykumar** & Avti, P.K. (2011). Photo-Physical Properties of Europium-Catalyzed Single Walled Carbon Nanotubes. *BMES 2011 Annual Meeting*, Hartford, CT.

❖ **Software Developed**

Acerbo, A.S. (2010). Kramers-Kronig Transform. Transformation of reflection FTIR data into absorbance units. *Brookhaven National Laboratory*, Upton, NY.

Acerbo, A.S. (2010). MultiROI. ROI-based statistical analysis of InfraRed integration maps. *Brookhaven National Laboratory*, Upton, NY.

❖ **Post-Doctorates Obtained and Professional Appointments**

Maramraju, Sri H (2011). PET Systems Scientist. *GE Health Care*, Waukesha, WI.

Parvaz, Muhammad. (2011). Postdoctoral Research Associate. Medical Research Department, *Brookhaven National Laboratory*, Upton, NY.

Sheriff, Jawaad (2011). Postdoctoral Associate. Dept. of Biomedical Engineering, *Stony Brook University*, Stony Brook, NY.

Xin, Feng. (2011). Assistant Professor, McDermott Center for Human Growth & Development, *UT Southwestern Medical Center*, Dallas, TX.

Yuan, Zhijia. (2010). Research Scientist. *Topcon Medical Systems, Inc.*, Paramus, NJ.

❖ **Other**

Engel, M.A. (2010). Developed Official Alumni Website: *Fundamentals of the Bioscience Industry Program*.

CHEMISTRY

DEPARTMENT CHAIR: BENJAMIN S. HSIAO
GRADUATE PROGRAM DIRECTOR: (PH.D.) NANCY S. GOROFF
(M.S.) SUSAN OATIS

❖ Grants, Fellowships, and Awards

- Banerjee, D.** (2011). Best Poster Award in the Field of Supramolecular Chemistry. *American Crystallographic Association (ACA) Meeting*, New Orleans, LA.
- Bergonzo, Christina.** (2011). Chemical Computing Group Excellence Award, \$1,000. *ACS Computers in Chemistry Division*, Anaheim, CA.
- Bourassa, Megan W.** (2010). NSF IGERT 3MT Fellowship, \$30,000. *Stony Brook University*, Stony Brook, NY.
- Bourassa, Megan W.** (2011). Poster Award, \$50. *Joint NSLS and CFN Users' Meeting*, Brookhaven National Laboratory, Upton, NY.
- Cao, Ping** (2010). The Sixth Annual Dr. Mow Shiah Lin Scholarship, \$1000. *Asian Pacific American Association*, Upton, NY.
- Cao, Ping.** (2011). The Best Student Oral Presentation, 1000 CNY. *The 3rd Asia Pacific Protein Association Conference in Conjunction with the 3rd Symposium of the Chinese Protein Society (APPA-2011)*, Shanghai, People's Republic of China.
- Carr, Amber.** (2011). IBM Ph.D. Fellowship, \$25,000. *International Business Machines*, San Jose, CA.
- Hauser, Kevin E** (2009-2011). LSAMP Bridge to the Doctorate Fellowship, \$30,000/year plus health and tuition. *National Science Foundation*, Arlington, VA.
- Hauser, Kevin E** (2011). Graduate Research Fellowship (honorable mention). *National Science Foundation*, Arlington, VA.
- Kirkup, Colleen.** (2011). Graduate Research Fellowship (Honorable Mention). *National Science Foundation*, Arlington, VA.
- Neckles, Carla.** (2011). AGEP Summer Research Grant, \$3,000. *Stony Brook University*, Stony Brook, NY.
- Neckles, Carla.** (2009-2010; 2011-2012). NSF LSAMP bridge to the doctorate fellowship, \$30,000 per year. *Stony Brook University*, Stony Brook, NY.
- Thomas, Suzanne.** (2010-2011). GAANN Fellowship, \$26,500. *US Department of Education*, Washington, DC.

❖ Jointly Authored Publications/Research Reports/Reviews

- Kumar, Kunal, Awasthi, Divya, Lee, Seung-Yub, Zanardi, Ilaria, Ruzsicska, Bela, Knudson, Susan, Tonge, Peter J, Slayden, Richard A., Ojima, Iwao. (2010). [Novel trisubstituted benzimidazoles, targeting *Mtb* FtsZ, as a new class of antitubercular agents](#). *Journal of Medicinal Chemistry*, (54): 374-381.
- Kumar, Kunal, Awasthi, Divya, Berger, William T., Tonge, Peter J., Slayden, Richard A., Ojima, Iwao. (2010). [Discovery of anti-TB agents that target the cell-division protein FtsZ](#). *Future Med. Chem.*, 2(8): 1305-1323.
- Banerjee, D., Kim, S. J., Borkowski, L. A., Xu, W. Q., Parise, J. B. (2010). [Solvothermal synthesis and structural characterization of ultralight metal coordination networks](#). *Cryst. Growth Des*, 10, (2): 709-715.
- Banerjee, D., Kim, S. J., Li, W., Wu, H. H., Li, J., Borkowski, L. A., Philips, B. L., Parise, J. B. (2010). [Synthesis and structural characterization of a 3-D lithium based metal-organic framework showing dynamic structural behavior](#). *Crystal Growth & Design*, 10, (6):2801-2805.
- Borkowski, L. A., Banerjee, D., Parise, J. B. (2010). [Poly\[bis\(N,N-dimethylformamide-kappa O\)\(mu\(4\)-naphthalene-1,5-disulfonato\)magnesium\(II\)\]](#). *Acta Crystallogr E*, (66): M691- U924.
- Banerjee D., Kim, S. J., Wu H., Xu W. Q., Borkowski L. A., Li, J., Parise, J.B. (2011). [An anionic gallium based metal organic framework and its sorption and ion exchange properties](#). *Inorg. Chem*, 50, (1): 208-212.
- Calderone, P. J., Banerjee, D., Borkowski, L. A., Parise, J. B. (2011). [A Magnesium-lithium heterometallic coordination network](#). *Inorg. Chem. Commun.*, (14): 741-744.
- Banerjee D., Finkelstein, J., Smirnov, A., Forster, P. M., Borkowski, L. A., Teat, S. J., Parise, J. B. (2011). [Synthesis and structural characterization of magnesium based coordination networks in different solvents](#). *Cryst. Growth Des*, 11, (6): 2572-2579.
- Kumar, Kunal, Awasthi, Divya, Berger, William T., Tonge, Peter J., Slayden, Richard A., Ojima, Iwao. (2010). [Discovery of anti-TB agents that target the cell-division protein FtsZ](#). *Future Med. Chem.*, 2(8): 1305-1323.
- Lelie, Herman L., Amir, Bourassa, Megan W., Chattopadhyay, Madhuri, Chan, Pik K., Gralla, Edith B., Miller Lisa M., Brochelt David R., Balentine, Joan S. & Whitelegge Julian P. (2011). [Copper and zinc metallation status of copper-zinc superoxide dismutase from amyotrophic lateral sclerosis transgenic mice](#). *Journal of Biological Chemistry*, 286 (4): 2795-806.
- Chi, Cheng, Maye, M. M., Stadler, A. L., van der Lelie, D., Gang, O. (2011). [Sensing nucleic acids with dimer nanoclusters](#). *Advanced Functional Materials*, (21): 1051-1057
- Stadler, A. L., Chi, Cheng, van der Lelie, D., Gang, O. (2010). [DNA-incorporating nanomaterials in biotechnological applications](#). *Nanomedicine*, (5):319 -334.
- Shi, C.; Chien, C.-W., Ojima, I. (2011). [Synthesis of chiral biphenol-based diphosphonite ligands and Their application in palladium-catalyzed intermolecular asymmetric allylic amination reactions](#). *Chem.-Asian J.*, 6(2): 674.

- Kaloko, J., Chaterpaul, S., Teng, Y.-H., Lin, C.-F., **Chien, C.-W.**, Ojima, I. (2010). *Encyclopedia of Catalysis*. Cyclization-Homogeneous. Horvath, I. T. Online: John Wiley & Sons, Inc.
- McRaven, C.P., **Cich, M.J.**, Lopez, G.V., Sears, T.J., Hurtmans, D., Mantz, A.W. (2011). [Frequency comb-referenced measurements of self- and nitrogen-broadening in the \$\nu_1 + \nu_3\$ band of acetylene.](#) *Journal of Molecular Spectroscopy*, (266): 43-51.
- Dai, Z.**, Boon, E. M. (2011). [Probing the local electronic and geometric properties of the heme iron center in an H-NOX domain.](#) *Journal of Inorganic Biochemistry*, (105): 784-792.
- Dai, Z.**, Boon, E. M. (2010). [Engineering of the heme pocket of an H-NOX domain for direct cyanide detection and quantification.](#) *Journal of the American Chemical Society*, (132): 11496-11503.
- Kaloko, J.**, Chaterpaul, S., Teng, Y.-H., Lin, C.-F., Chien, C.-W., Ojima, I. (2010). *Encyclopedia of Catalysis*. Cyclization-Homogeneous. Horvath, I. T. Online: John Wiley & Sons, Inc.
- Koenigsmann, C.**, Wong, S. S. (2011). [One-dimensional noble metal electrocatalysts: A promising structural paradigm for direct methanol fuel cells.](#) *Energy & Environmental Science*, 4(4): 1161-1176.
- Koenigsmann, C.**, Zhou, W.P., Adzic, R. R., Sutter, E., Wong, S. S. (2010). [Size-dependent enhancement of electrocatalytic performance in relatively defect-free, processed ultrathin platinum nanowires.](#) *Nano Letters*, 10(8):2806-2811.
- Kumar, Kunal**, Awasthi, Divya, Lee, Seung-Yub, Zanardi, Ilaria, Ruzsicska, Bela, Knudson, Susan, Tonge, Peter J, Slayden, Richard A., Ojima, Iwao. (2010). [Novel trisubstituted benzimidazoles, targeting *Mtb* FtsZ, as a new class of antitubercular agents.](#) *Journal of Medicinal Chemistry*, (54):374-381.
- Kumar, Kunal**, Awasthi, Divya, Berger, William T., Tonge, Peter J., Slayden, Richard A., Ojima, Iwao. (2010). [Discovery of anti-TB agents that target the cell-division protein FtsZ.](#) *Future Medicinal Chemistry*, 2(8): 1305-1323.
- Awasthi, Divya, **Kumar, Kunal**, Ojima, Iwao. (2011). [Therapeutic potential of FtsZ Inhibition: A patent perspective.](#) *EOTIP*, (21): 657-679.
- Kaloko, J. J., Chaterpaul, S. J., Teng, Y.-H. G., **Lin, C.- F.**, Chien, C.- W., Ojima, I. (2010). *Encyclopedia of Catalysis 2nd Edition*. Cyclization by Homogeneous Catalysts. Horváth, I. T. Online, John Wiley and Sons.
- Liu, N.**, Cummings, J. E., England, K., Slayden, R. A., Tonge, P. J. (2011). [Mechanism and inhibition of the FabI Enoyl-ACP reductase from *Burkholderia pseudomallei*.](#) *Journal of Antimicrob Chemotherapy*, 66(3): 564-573.
- Kinnings, S. L., **Liu, N.**, Tonge, P. J., Jackson, R. M., Xie, L., Bourne, P. E. (2011). [A machine learning-based method to improve docking scoring functions and its application to drug repurposing.](#) *J. Chem. Inf. Model.*, 51(2): 408-419.
- McRaven, C.P., Cich, M.J., **Lopez, G.V.**, Sears, T.J., Hurtmans, D., Mantz, A.W. (2011). [Frequency comb-referenced measurements of self- and nitrogen-broadening in the \$\nu_1 + \nu_3\$ band of acetylene.](#) *Journal of Molecular Spectroscopy*, (266): 43-51.

- Patete, Jonathan M.**, Peng, X., Serafin, J. M., Wong, S. S. (2011). [Quantitatively probing the means of controlling nanoparticle assembly on surfaces](#). *Langmuir*, 27(10): 5792 – 5805.
- Santulli, A.C** Koenigsmann, CTiano, A.L., DeRosa, D., Wong, S.S. (2011). [Correlating titania morphology and chemical composition with dye-sensitized solar cell performance](#). *Nanotechnology*, (22): 245402.
- Santulli, A.C** Feygenson, M., Camino, F.E., Aronson, M.C., and Wong, S.S. (2011). [Synthesis and characterization of one-dimensional Cr₂O₃ nanostructures](#). *Chem. Mater.*,(23):1000-1008.
- Thomas S.T.**, Yang, X., Sampson, N.S. (2011). [Inhibition of the M. tuberculosis 3β-Hydroxysteroid dehydrogenase by Azasteroids](#). *Bioorg Med Chem Lett.*, (21): 2216-2219.
- Tiano, A. L.**, Koenigsmann, C., Santulli, A.C and Wong, S.S. (2010). [Solution-based synthetic strategies for one-dimensional metal-containing nanostructures](#). *Chemical Communications*, (46): 8093-8130.
- Botchkina, G. I., **Zuniga, E. S.**, Das, M., Wang, Y., Wang, H., Zhu, S., Savitt, A. G., Rowehl, R.A., Leyfman, Y., Ju, J., Shroyer, K., Ojima, I. (2010). [New-generation taxoid SB-T-1214 inhibits stem cell-related gene expression in 3D cancer spheroids induced by purified colon tumor-initiating cells](#). *Molecular Cancer*, (9):192-204.

Abstracts, Conferences/Colloquia, Presentations, Symposiums, Workshops

- Aldi, Kellie**, Bargar, J., Pena, J. & Grey, C. (2010). [²H NMR and Mn K-edge EXAFS Investigation of Layer Vacancies in Hexagonal Birnessites](#). *52nd ENC Conference*, Pacific Grove, CA.
- Amarante, Daniel**. (2011). Synthesis and Characterization of Late Transition Metal Complexes as Models for the Active Site of Hydrogenases. *Sigma Xi Research Society at SUNY College at Old Westbury*, Old Westbury, NY.
- Kumar, Kunal, **Awasthi, Divya**, Ruzsicska, Bela, Tonge, Peter J., Slayden, Richard A., Ojima, Iwao. (2010). Synthesis, SAR and Biological Evaluation of Novel Benzimidazoles Targeting FtsZ for Drug Discovery of Efficacious Antitubercular Agents. *Abstracts of Papers, 239th ACS National Meeting*, Boston, MA.
- Awasthi, Divya**, Kumar, Kunal, Ruzsicska, Bela, Tonge, Peter J., Slayden, Richard A., Ojima, Iwao. (2010). Biological Evaluation of Novel Antitubercular Benzimidazoles on *Mtb* FtsZ: Discovery of Novel Mechanism of Action. *Abstracts of Papers, 239th ACS National Meeting*, Boston, MA.
- Bergonzo, Christina**, Campbell, Arthur J., Fu, Lin, Song, Kun, de los Santos, Carlos, Grollman, Arthur P., Simmerling, Carlos. (2011). Selective Destabilization of Lesions Leads to Divergent Base Flipping Pathways by a DNA Glycosylase. *2011 Spring ACS*, Anaheim, CA.
- Bo, Shou-Hang**, Janssen, Yuri, Tang, Chi Ian, Khalifah, Peter, Grey, Clare. (2010). Synthesis and Characterization of LiMBO₃ (M=Fe and/or Mn) as a Cathode Materials for Lithium-ion Batteries, 2010 *Chemistry Research Day*, Stony Brook University, Stony Brook, NY.
- Bourassa, Megan W.** (2010). Understanding the Metallation Levels of Amyloid-β Plaques in Alzheimer's Disease. *IGERT 3MT Mini-symposium*, Stony Brook, NY.
- Bourassa, Megan W.**, Lelie, Herman L., Borchelt, David R., Valentine, Joan S., Miller, Lisa M. (2010).

The Localization of Metal Ions in the Spinal Cord of Amyotrophic Lateral Sclerosis Mice. *Gordon Conference*, Andover, NH. *Bio-XFM*, Chicago, IL.

- Bourassa, Megan W.**, Smith, Randy J., Stavitski, Eli, Miller, Lisa M. (2011). Real Time Infrared Imaging of Live Cells. *Joint NSLS and CFN Users' Meeting*. Brookhaven National Laboratory, Upton, NY.
- Buannic, Lucienne.** (2010). Solid State NMR study of $\text{BaZr}_{1-x}\text{Sc}_x\text{O}_3$ Protonic Conductor: Defect Trapping and Ionic Mobility. *Solid State Proton Conductor 15*, Santa Barbara, CA.
- Bergonzo, Christina, **Campbell, Arthur J.**, Fu, Lin, Song, Kun, de los Santos, Carlos, Grollman, Arthur P., Simmerling, Carlos. (2011). Selective Destabilization of Lesions Leads to Divergent Base Flipping Pathways by a DNA Glycosylase. *2011 Spring ACS*, Anaheim, CA.
- Cao, Ping**, Raleigh, Daniel P. (2011). Switch Peptides Provide a Simple Method for Preparing Monomeric Islet Amyloid Polypeptide and Facilitate Investigations of the Mechanism of Amyloid Formation. *The 3rd Asia Pacific Protein Association Conference. in Conjunction with the 3rd Symposium of the Chinese Protein Society (APPA-2011)*, Shanghai, People's Republic of China.
- Cao, Ping**, Raleigh, Daniel P. (2010). Mechanistic Study of Amyloid Formation by Islet Amyloid Polypeptide: Implications for Type 2 Diabetes. *6th Annual Dr. Mow Shiah Lin Scholarship Ceremony*, Brookhaven National Laboratory, Upton, NY.
- Raleigh, Daniel P., Abedini, Andisheh, **Cao, Ping**, Marek, Peter, Meng, Fanling. (2010). A High Resolution Study of a Low Resolution Process - Residue Specific Studies of Amyloid Formation. *7th Annual North Eastern Structure Symposium*, University of Connecticut, Storrs, CT.
- Cao, Ping**, Raleigh, Daniel P. (2010). Ester to Amide Switch Peptides Provide a Simple Method for Preparing Monomeric Islet Amyloid Polypeptide Under Physiologically Relevant Conditions and Facilitate Investigations of Amyloid Formation. *7th Annual North Eastern Structure Symposium*, University of Connecticut, Storrs, CT.
- Chi, Cheng**, van der Lelie, D., Gang, O. (2010). Recognition of Asymmetric Nanoclusters by DNA Functionalized Surfaces. *American Chemical Society Meeting*, Boston, MA.
- Chi, Cheng**, Maye, M. M., van der Lelie, D., Gang, O. (2009). Real-time Molecular-level Bio-detectors Based on Nanoclusters. *American Chemical Society Meeting*, Washington, D.C.
- Chien, C.-W.**, Ojima, I. (2010). Enantioselective Synthesis of 1-vinyltetrahydroisoquinolines Through Pd-catalyzed Intramolecular Asymmetric Allylic Amination Using Novel Monophosphoramidite Ligands. *240th ACS National Meeting*, Boston, MA.
- Dai, Zhou.** (2011). Studies on the Molecular Basis of Small Molecules Sensing by H-NOX Proteins. *Gordon Research Conference: Metals in Biology*, Ventura, CA.
- Fujimoto, Yukiji.** (2010). Understanding Carbohydrate Recognition by the Antiviral Lectin Cyanovirin-N., *The 24th Annual Meeting of the Groups Studying the Structures of AIDS-Related Systems and Their Applications to Targeted Drug Design*, Bethesda, MD; *The 24th Symposium of the Protein Society*, San Diego, CA; *The 4th Annual Symposium of ICB&DD*, Stony Brook, NY; *Chemistry Research Day*, Stony Brook, NY; *New York Theoretical and Computational Chemistry Conference*, New York, NY; *The 6th Winter Meeting of the New York Structural Biology Discussion Group*, New York, NY.

- Hauser, Kevin E** (2011). Studying How a DNA-binding Protein Uses Clamping to Recognize DNA. *Celebrating Diversity and Academic Excellence*, Stony Brook University, Stony Brook, NY.
- Hauser, Kevin E** (2011). Atomic-scale Mechanics of a Human DNA-binding Protein: MTERF1. *Preparing for the Professoriate*, SUNY Albany, Albany, NY.
- Hauser, Kevin E** (2011). Modeling a Molecular Mechanism of Mitochondrial DNA Targeting by a Human Mitochondrial Transcription Factor. *New York Theoretical and Computational Chemistry Conference*, CUNY, New York, NY.
- Koenigsmann, C.** (2010). Size-Dependent Enhancement of Electrocatalytic Performance in Relatively Defect-Free, Processed Ultrathin Platinum Nanowires. *Gordon Research Conference (Fuel Cells)*, Bryant University, Smithfield, RI.
- Santulli, A.C **Koenigsmann, C.**, Tiano, A.L., DeRosa, D., Wong, S.S. (2011). Correlating Titania Morphology and Chemical Composition with Dye-sensitized Solar Cell Performance, *International Symposia on Advancing the Chemical Sciences: Challenges in Renewable Energy Conference*, Boston, MA.
- Kumar, Kunal**, Awasthi, Divya, Ruzsicska, Bela, Tonge, Peter J., Slayden, Richard A., Ojima, Iwao. (2010). Synthesis, SAR and Biological Evaluation of Novel Benzimidazoles Targeting FtsZ for Drug Discovery of Efficacious Antitubercular Agents. *Abstracts of Papers, 239th ACS National Meeting*, Boston, MA.
- Awasthi, Divya, **Kumar, Kunal**, Ruzsicska, Bela, Tonge, Peter J., Slayden, Richard A., Ojima, Iwao. (2010). Biological Evaluation of Novel Antitubercular Benzimidazoles on *Mtb* FtsZ: Discovery of Novel Mechanism of Action. *Abstracts of Papers, 239th ACS National Meeting*, Boston, MA.
- Lee, Eun Jung**, Sampson, Nicole S. (2010). Glycopolymers as a Chemical Tool for Exploring Ligand Binding Events. *Chemistry Research Day*, Stony Brook University, Stony Brook, NY.
- Lee, Siyeon**, Sampson, Nicole. (2010). Developing ROMP Polymer for Identifying Egg Receptor. *Chemistry Research Day*, Stony Brook University, Stony Brook, NY.
- Lee, Siyeon**, Nicole Sampson . (2010). Developing ROMP Polymer for Identifying Egg Receptor. *ICB&DD Symposium*, Stony Brook University, Stony Brook, NY.
- Lin, C.- F.**, Ojima, I. (2010). Enantioselective Synthesis of 1-vinyltetrahydroisoquinolines Via Pd-catalyzed Intramolecular Allylic Amination Using Novel Diphosphonites and its Application for the Formal Total Syntheses of Schulzeines A-C. *240th ACS National Meeting and Exposition*, Boston, MA.
- Liu, Yang.** (2011). High-flux Microfiltration Filters Based on Electrospun PVA Nanofibrous Mats. *ACS Spring Meeting*, Anaheim, CA.
- Raleigh, Daniel P., Abedini, Andisheh, Cao, Ping, **Marek, Peter**, Meng, Fanling. (2010). A High Resolution Study of a Low Resolution Process - Residue Specific Studies of Amyloid Formation. *7th Annual North Eastern Structure Symposium*, University of Connecticut, Storrs, CT.

- Raleigh, Daniel P., Abedini, Andisheh, Cao, Ping, Marek, Peter, **Meng, Fanling**. (2010). A High Resolution Study of a Low Resolution Process - Residue Specific Studies of Amyloid Formation. *7th Annual North Eastern Structure Symposium*, University of Connecticut, Storrs, CT.
- Neckles, Carla**. (2011). The Study of Modified *Staphylococcus aureus* acyl Carrier Protein and its Role as a Substrate for Enzymes Involved in Fatty Acid Biosynthetic Type II Pathway. *Preparing for the Professoriate Conference*, Stony Brook University, Stony Brook, NY; *CDAE Conference*, University at Albany, Albany, NY.
- Neckles, Carla**. (2010). KasA from the FASII Pathway in Mycobacterium tuberculosis. *CUNY/SUNY AGEF Conference*, CUNY Graduate Center, New York, NY.
- Neckles, Carla**. (2010). The Study of Modified *Staphylococcus aureus* acyl Carrier Protein and its Role as a Substrate for Enzymes Involved in Mycobacterium tuberculosis FASII Pathway. *ICB&DD Symposium*, Stony Brook University, Stony Brook, NY; *Chemistry Research Day*, Stony Brook University, Stony Brook, NY.
- Santulli, A.C** Koenigsmann, C., Tiano, A.L., DeRosa, D., Wong, S.S. (2011). Correlating Titania Morphology and Chemical Composition with Dye-sensitized Solar Cell Performance, *International Symposia on Advancing the Chemical Sciences: Challenges in Renewable Energy Conference*, Boston, MA.
- Su, Chiao-Yung**. (2010). Mapping Out the Site of Protein-lipid Interactions on Cholesterol Oxidase. *ICB&DD Symposium*, Stony Brook University, Stony Brook, NY.
- Su, Chiao-Yung**. (2010). Mapping Out the Site of Protein-lipid Interactions on Cholesterol Oxidase. *Chemistry Research Day*, Stony Brook University, Stony Brook, NY.
- Tan, Li**, Parker, Kathlyn, Sampson, Nicole. (2010). Investigation of Anti-Backbiting in Polymerization. *Chemistry Research Day*, Stony Brook University, Stony Brook, NY; *ICB&DD Symposium*, Stony Brook University, Stony Brook, NY.
- Thomas, Suzanne T.**, VanderVen, Brian C., Russell, David G., Sampson, Nicole S. (2010). Investigating the Role of the Igr Operon in the Cholesterol Metabolism Pathway of *Mycobacterium tuberculosis*. *ICB&DD Symposium; Chemistry Research Day*, Stony Brook University, Stony Brook, NY.
- Santulli, A.C Koenigsmann, C., **Tiano, A.L.**, DeRosa, D., Wong, S.S. (2011). Correlating Titania Morphology and Chemical Composition with Dye-sensitized Solar Cell Performance, *International Symposia on Advancing the Chemical Sciences: Challenges in Renewable Energy Conference*, Boston, MA.
- Tu, Ling-Hsien**. (2010). Mutational Analysis of the Role of Aromatic Interactions in Amyloid Formation by Islet Amyloid Polypeptide. *The 7th Annual North Eastern Structure Symposium*, University of Connecticut, Storrs, CT; *ICB&DD Symposium*, Stony Brook University, Stony Brook, NY. *Chemistry Research Day*, Stony Brook University, Stony Brook, NY.
- Wu, Linghui**. (2011). Investigate Sperm Acrosome Reaction with Chemically Synthetic Glycopolymers. *Chemistry Research Day*, Stony Brook University, Stony Brook, NY; *ICB&DD Symposium*, Stony Brook University, Stony Brook, NY.

Zhang, Yu, Lee, Hsi-Ming, Golub, Lorne M., Hambardjjeva, Elena, Tong, Simon, Pierre, Bechir-Auguste, Vrankova, Kveta, Johnson, Francis. (2011). Synthesis of Poly-enolic Zinc-binding Compounds, New Inhibitors of Matrix Metalloproteinases and Inflammatory Mediators for Periodontitis and Other Diseases. *241st ACS National Meeting*, Anaheim, CA.

Zuniga, Edison S Ojima, Iwao. (2010). Novel Tumor-targeting Drug Conjugate Bearing a Taxoid and Topotecan. *240th ACS National Meeting*, Boston, MA.

Zuniga, Edison S Shah, Preya, Reimer, Alyssa, Ojima, Iwao. (2010). Towards Novel Tumor-targeting Anticancer Drug Conjugates. *239th ACS National Meeting*, San Francisco, CA.

❖ **Post-Doctorates Obtained and Professional Appointments**

Amarante, Daniel. (2010). Visiting Assistant Professor, Department of Chemistry, *St. John's University*, Jamaica, NY.

Amarante, Daniel. (2011). Assistant Professor (Tenure-track). Department of Chemistry and Biochemistry, *College of Mount Saint Vincent*, Riverdale, NY.

Dai, Zhou. (2011). Post-Doctorate position, Department of Chemistry, *University of Illinois at Urbana-Champaign*, Urbana, IL.

Liu, Nina. (2011). Research Associate, Department of Molecular Biology, *The Scripps Research Institute*, San Diego, CA.

CULTURAL ANALYSIS AND THEORY

DEPARTMENT CHAIR: ROBERT HARVEY
GRADUATE PROGRAM DIRECTOR: KRIN GABBARD

❖ Grants, Fellowships, and Awards

Brock, Marcus. (2011). Turner Summer Research Grant, \$4,000. *Stony Brook University*, Stony Brook, NY.

Chen, I-Ju. (2011). The Fifth Annual Worker Literature Award (Photography Category). *The Fifth Annual Worker Literature Award Committee*, Hong Kong, China.

Sung, I-Te Rita. (2011). Japanese Studies Dissertation Fellowship, 310,000 Yen/ Monthly stipend . *The Japan Foundation*, Tokyo, Japan.

❖ Singly Authored Publications

Chen, I-Ju. (2010). Criticism, art and science: Hippolyte Taine's philosophy of art and Émile Zola's response. *Bulletin of the Polytechnic Institute of Iași, Humanities and Social Sciences Section* LVI (LX), (2):59-70.

D'Amelio, Maria Elena. (2010). [La commedia del precariato](#). *Jura Gentium Cinema - Cinema and Globalization*.

❖ Abstracts, Conferences/Colloquia, Invited Talks, Presentations

Chen, I-Ju. (2010). The limits of liberation: From philosophy of science to passages in literature. Limits of the Knowledge Society. *Romania Academy*, Iasi, Romania.

D'Amelio, Maria Elena. (2011). The comedy of 'precarious' lifestyles in Paolo Virzi's *Tutta la vita davanti*, *A New Italian Political Cinema?*, Cremona, Italy.

❖ Translations

Chen, I-Ju. (2011). Little Princes(Gonor Grennan). *Taipei: Commonwealth Publishing Co., Ltd* (Original work published [2011]).

Chen, I-Ju. (2011). The Invisible Mountain (Garolina De Robertis). *Taipei: Commonwealth Publishing Co., Ltd.* (Original work published [2009]).

COMPUTER SCIENCE

DEPARTMENT CHAIR: ARIE E. KAUFMAN
GRADUATE PROGRAM DIRECTOR: (PH.D.) IV RAMAKRISHNAN
(M.S.) SAMIR DAS

❖ Jointly Authored Publications

- Kang, H., **Chen, Y** Wong, J.L., Sion, R., Wu, J. (2011). [Enhancement of Xen's scheduler for MapReduce workloads](#). *ACM Symposium on High-Performance Parallel and Distributed Computing*. (251-262), San Jose, CA.
- Anicic, D., Rudolph, S., **Fodor, P.**, Stojanovic, N. (2011). [Stream reasoning and complex event processing in ETALIS](#). *Semantic Web Journal*, Martin Raubal.
- Fodor, P.**, Kifer, M. (2011). [Transaction Logic with Defaults and Argumentation Theories](#). *Proceedings of the 27th International Conference on Logic Programming (ICLP)*, Lexington, KY.
- Fodor, P.**, Anicic, D., Rudolph, S. (2011). [Results on Out-of-Order Event Processing](#). *Proceedings of the International Symposium on Practical Aspects of Declarative Languages (PADL)*, (220-234) Austin, TX.
- Anicic, D., Rudolph, S., **Fodor, P.**, Stojanovic, N. (2011). [Retractable Complex Event Processing and Stream Reasoning](#). *RuleML International Symposium on Rules*, Barcelona, Spain.
- Anicic, D., Rudolph, S., **Fodor, P.**, Stojanovic, N. (2011). [A Declarative Framework for Matching Iterative and Aggregative Patterns Against Event Streams](#). *RuleML International Symposium on Rules*, Barcelona, Spain.
- Anicic, D., **Fodor, P.**, Rudolph, S., Stojanovic, N. (2011). [EP-SPARQL: A unified language for event processing and stream reasoning](#). *20th International World Wide Web Conference (WWW)*, (635-644), Hyderabad, India.
- Anicic, D., **Fodor, P.**, Rudolph, S., R Stuehmer, Stojanovic, N., Studer, R. (2010). [A rule-based language for complex event processing and reasoning](#) *In the Proceedings of the International Conference on Web Reasoning and Rule Systems (RR)*, (42-57), .Bressanone, Brixen, Italy.
- Fodor, P.**, Kifer, M. (2010). [Tabling for transaction logic](#). *Proceedings of the 12th International ACM SIGPLAN Symposium on Principles and Practice of Declarative Programming (PPDP)*, (199-208), Hagenberg, Austria.
- Fodor, P.**, Anicic, D., Rudolph, S., Stuehmer, R., Stojanovic, N., Studer, R. (2010). [Processing out-of-order Event Streams in ETALIS](#). *ACM International Conference on Distributed Event-Based Systems (DEBS)*, Cambridge, United Kingdom.
- Anicic, D., **Fodor, P.**, Rudolph, S., Stuehmenr, R., Stojanovic, N., Studer, R. (2010). [ETALIS: Rule-based reasoning in event processing](#). *Reasoning in Event-based Distributed Systems, Studies in Computational Intelligence Series* (Editors: Sven Helmer, Alex Poulouvasilis, and FatosXhafa), Springer Verlag, LNCS.
- Mueller, K., **Garg S.**, **Nam, J** Berg, T., McDonnell, K. (2011). [Can computers master the art of communication? An excursion with a focus on visual analytics](#). *IEEE Computer Graphics & Applications*, 31 (3), 14-21.

- Garg S.,** Nam, J., Padalkar, K., Mueller, K., Chan, M., Qu, H., Laue, S., Saleem, W., Giesen, J. (2010). [KAV-DB: Towards a framework for the capture and retrieval of visualization knowledge over the web](#). *Proc. SchlossDagstuhl Scientific Visualization Workshop*.
- Hou, T.,** Wang S., Qin, H. (2011). [3D Model-Driven Vehicle Matching and Recognition](#). In R.I. Hammound, G. Fan, R.W. McMillan, K. Ikeuchi (Eds.), *Machine Vision Beyond Visible Spectrum, Augmented Vision and Reality*, doi: 10.1007/978-3-642-11568-4_3, Springer-Verlag Berlin Heidelberg.
- Wang S.,**Hou, T.,** Su, Z., Qin, H. (2011). [Multi-scale anisotropic heat diffusion based on normal-driven shape representation](#). *The Visual Computer (Special Issue of CGI)*, 27(6-8): (429-439).
- Hou, T.,** Qin, H. (2010). [Computation of scale-space features for deformable shape correspondences](#). *Proceedings of the 11th European Conference on Computer Vision (ECCV)*, (384-397), Crete, Greece.
- Hou, T.,** Wang S., Qin, H. (2010). [Illumination learning from a single image with unknown shape and texture](#). *Proceedings of the 17th International Conference on Image Processing (ICIP)*, (2301-2304), People's Republic of China, Hong Kong.
- Hou, T.,** Wang S., Qin, H., Miller, R. (2010). [Image deconvolution using multigrid natural image prior and its applications](#). *Proceedings of the 17th International Conference on Image Processing (ICIP)*, (3569-3572), People's Republic of China, Hong Kong.
- Hou, T.,** Wang S., Qin, H. (2010). [Active lighting learning for 3D model based vehicle tracking](#). *Proceedings of the 7th IEEE Workshop on Object Tracking and Classification Beyond and in the Visible Spectrum*, (38-43), San Francisco, CA.
- Kang, H.,** Chen, Y Wong, J.L., Sion, R., Wu, J. (2011). [Enhancement of Xen's scheduler for MapReduce workloads](#). *ACM Symposium on High-Performance Parallel and Distributed Computing (HPDC)*, (251-262), San Jose, CA.
- Mueller, K., Garg S.,**Nam, J** Berg, T., McDonnell, K. (2011). [Can computers master the art of communication? An excursion with a focus on visual analytics](#). *IEEE Computer Graphics & Applications repeat*, 31(3), 14-21.
- Garg S.,**Nam, J.,**Padalkar, K., Mueller, K., Chan, M., Qu, H., Laue, S., Saleem, W., Giesen, J. (2010). [KAV-DB: Towards a Framework for the Capture and Retrieval of Visualization Knowledge Over the Web](#). *Proc. SchlossDagstuhl Scientific Visualization Workshop*, 1-11.
- Shengying, L.,** Jackowski, M., Varslot, T., Dione, D., Staib, L., Mueller, K. (2010). [Refraction corrected transmission ultrasound computed tomography for application in breast imaging](#). *Medical Physics*. 37(5):2233-2246.
- Kang, H.,Chen, Y Wong, J.L., Sion, R., **Wu, J.** (2011). [Enhancement of Xen's Scheduler for MapReduce Workloads](#). *ACM Symposium on High-Performance Parallel and Distributed Computing (HPDC)*, (251-262), San Jose, CA.
- Xu, W.,** Mueller, K. (2011). [Using GPUs to learn effective parameter settings for GPU-accelerated iterative CT reconstruction algorithms](#). *W.-M. Hwu (Emerald Ed.), GPU Computing Gems*, Chapter 43. Morgan Kaufmann.
- Zheng, Z **Xu, W.,** Mueller, K. (2010). [VDVR: Verifiable volume visualization of projection-based data](#). *IEEE Transactions on Visualization and Computer Graphics (Special Issue IEEE Visualization Conference)*, 6(6):1515-1524.

- Xu, W.,** Xu, F., Jones, M., Keszthelyi, B., Sedat, J., Agard, D., Mueller, K. (2010). [High-Performance Iterative Electron Tomography Reconstruction with Long-Object Compensation Using Graphics Processing Units \(GPUs\)](#). *Journal of Structural Biology*, 171(2), 142-153.
- Xu, W.,** Xu, F., Jones, M., Keszthelyi, B., Sedat, J., Agard, D., Mueller, K. (2010). [On the efficiency of iterative ordered subset reconstruction algorithms for acceleration on GPUs](#). *Computer Methods and Programs in Biomedicine*, 98(3), 261-270.
- Xu, W.,** Mueller, K. (2011). [A reference image database approach for NLM filter-regularized CT reconstruction](#). *11th Fully Three-Dimensional Image Reconstruction in Radiology and Nuclear Medicine*, Potsdam, Germany.
- Zheng Z., **Xu, W.,** Mueller, K. (2011). [Performance tuning for CUDA-accelerated neighborhood denoising filters](#). *11th Fully Three-Dimensional Image Reconstruction in Radiology and Nuclear Medicine associated High Performance Image Reconstruction Workshop*, Potsdam, Germany.
- Xu, W.,** Mueller, K. (2010). [Evaluating popular non-linear image processing filters for their use in regularized iterative CT](#). *IEEE Medical Imaging Conference*, Knoxville, TN.
- Xu, W.,** Mueller, K. (2010). [Parameter space visualizer: An interactive parameter selection interface for iterative CT reconstruction algorithms](#). *SPIE on Medical Imaging*, San Diego, CA.
- Xu, W.,** Xu, F., Jones, M., Keszthelyi, B., Sedat, J., Agard, D., Mueller, K. (2010). [High-performance iterative electron tomography reconstruction with long-object compensation using graphics processing units \(GPUs\)](#). *Journal of Structural Biology*, 171(2):142-153.
- Mueller, K., **Xu, W.,** Zheng, Z., Xu, F. (2010). [Course SC829: MIC-GPU: High-Performance Computing for Medical Imaging on Programmable Graphics Hardware \(GPU\)](#), *SPIE on Medical Imaging 2010*, San Diego CA.
- Zheng, Z.,** Xu, W., Mueller, K. (2010). [VDVR: Verifiable volume visualization of projection-based data](#). *IEEE Transactions on Visualization and Computer Graphics (Special Issue IEEE Visualization Conference)*, 6(6):1515-1524

❖ Patents

- Wang, S., **Hou, T.,** Miller, R. (May/2011). *Image Deblurring Using A Combined Differential Image*. US20110102642A1.
- Wang, S., **Hou, T.,** Miller, R. (April/2011). *Image Deblurring Using Panchromatic Pixels*. US20110090378A1.
- Wang, S., **Hou, T.,** Miller, R. (April/2011). *Image Deblurring Using A Spatial Image Prior*. WO2011046755A1 and US20110090352A1.

ECOLOGY AND EVOLUTION

DEPARTMENT CHAIR: JESSICA GUREVITCH
GRADUATE PROGRAM DIRECTOR: (Ph.D.) JOHN TRUE
(MA) LEV GINZBURG

❖ Grants, Fellowships, and Awards

Aldred, Mary. (2011). Hudson River Foundation Fellowship. *Hudson River Foundation*, New York, NY.

Cahill, Abigail. (2011). Melbourne R. Carriker Student Research Grant. *National Shellfisheries Associations*, Port Norris, NJ.

Flenniken, Megan. (2011). Lerner Gray Award, \$1500. *American Museum of Natural History*, New York, NY.

Gray, Sarah. (2011). Presidents Award to Distinguished Doctoral Student. *Stony Brook University*, Stony Brook, NY.

Grella, Rebecca. (2011). State Assembly Award for Teaching Excellence in Teaching and Mentorship. *New York State Assemblyman Phillip Ramos*, Brentwood, NY.

Grella, Rebecca. (2011). Conservation Leadership Award. *Stony Brook University's Department of Ecology and Evolution*, Stony Brook, NY.

Grella, Rebecca. (2011). Teaching Excellence Award. *Brentwood Union Free School District*, Brentwood, NY.

Grella, Rebecca. (2011). Presidential Award for Excellence in Math, Science and Technology Education. *National Science Foundation*, Washington, DC.

Grella, Rebecca. (2011). Brookhaven National Laboratory Teacher Award. *Brookhaven National Laboratory Office of Teaching*, Upton, NY.

Grella, Rebecca. (2011). Honored Teacher International Sustainable World Energy and Environment Project Olympiad. *I-SWEEP*, Houston, TX.

Machac, Antoin. (2011). Fullbright Scholarship.

Moen, Daniel S. (2011). Smithsonian Institution Pre-doctoral Fellow. *Smithsonian Institution of Fellowships and Internships*, Washington, DC.

❖ Jointly Authored Publications

Davalos, Liliana, Bejarano, A., Hall, M., Correa, L., Corthals, A., Espejo, O. (2011). [Forest and drugs: Coca-driven deforestation in tropical biodiversity hotspots.](#) *Environmental Science and Technology*, 45:1219-1227.

Levinton, Jeffrey., Doall, M., Ralston, D., Starke, A., Allam, B. (2011). [Climate change, precipitation and impacts on an estuarine refuge from disease.](#) *PLoS*, e18849.

- Padilla, DK., **McCann, MJ.**, & Shumway, SE. (2011). [Marine invaders and bivalve aquaculture: Source, Impacts and Consequences](#). In Shumway, SE (Eds.), *Shellfish Aquaculture and the Environment*. John Wiley & Sons, Ltd: (395-424).
- Sbeglia, GC**, Tant-Martinez, Z., Sussman, RW. (2010). [Effects of food proximity, and kinship on social behavior in rintailed lemurs](#). *American Journal of Primatology*, 72 (11): 981-991.
- Park, P.J. & Bell, M.A.** (2010). [Variation of telencephalon morphology of the threespine stickleback \(*Gasterosteus aculeatus*\) in relation to inferred ecology](#). *Journal of Evolutionary Biology*, 23:2362-1277.
- Colyvan, M. & **Ginzburg, L.R.** (2010). [Analogical thinking in ecology: Looking beyond disciplinary boundaries](#). *Quarterly Review of Biology*, 85:1-12.
- Futuyma, D.J.** (2010). [Evolutionary constraint and ecological consequences](#). *Evolution*, 64:1865-1884.
- Gurevitch, J.**, Fox, G.A., Wardle, G.M., Inderjit, Taub, D. (2011). [Emergent insights from the synthesis of conceptual frameworks for biological invasions](#). *Ecology Letters*, 14:407-418.

❖ Abstracts, Conferences/Colloquia, Invited Talks, Presentations

- Baines, SB.** (2010). Using Plant Traits to Predict Denitrification in Wetland Ecosystems. *Brookhaven National Laboratory*, (Oral Presentation).
- Brown, James.** (2010). Analysis of Salt Marsh Edge Change in Western Bays of Long Island South Shore, Hempstead, NY. *45th Annual Fall MACUB Conference*, Molloy College, Rockville Centre, NY.
- Monzon, Javier.** (2010). Center for Inclusive Education: Beyond Mitochondrial DNA: An Analysis of Population Genetic Structure in Northeastern Coyotes using Highly Variable SNPS. *Center for Inclusive Education, Stony Brook University*, Stony Brook, N.Y. (Presenter).
- Gray, Sarah.** (2011). Research that Matters: An Exposition of Graduate Research in SUNY and CUNY. *State University of New York, Albany*, NY.

ENGLISH

DEPARTMENT CHAIR: STEPHEN SPECTOR
GRADUATE PROGRAM DIRECTOR: ROWAN RICARDO PHILLIPS

❖ Grants, Fellowships, and Awards

- Buss, Allison.** (2011). Thomas Flanagan Prize for the Best Essay Written by a Master's Student. *Stony Brook University*, Stony Brook, NY.
- Clare, Ralph.** (2010). Marilyn and Ira Hechler Endowment Award for contribution to the English Graduate Program. *Stony Brook University*, Stony Brook, NY.
- Clare, Ralph.** (2010). Roger Rosenblatt Prize for Best Dissertation Chapter by a Doctoral Student. *Stony Brook University*, Stony Brook, NY.
- Curran, Jesse Lee.** (2011). Alan Babich Memorial Prize for excellence in teaching by a doctoral student. *Stony Brook University*, Stony Brook, NY.
- Ellis Neyra, Rachel.** (2011). Morton E. Kahn Prize for Outstanding Graduating Doctoral Student. *Stony Brook University*, Stony Brook, NY.
- Esposito, Lauren.** (2010). Roger Rosenblatt Prize for Best Essay by a Doctoral Student. *Stony Brook University*, Stony Brook, NY.
- Falvey, Amy.** (2010). Alan Babich Memorial Prize for excellence in teaching by a doctoral student. *Stony Brook University*, Stony Brook, NY.
- Lee, Daniel.** (2011). Scholarship by the Humanities Institute of Stony Brook Scholarship to Attend the School of Criticism and Theory at Cornell University. *Stony Brook University*, Stony Brook, NY.
- Locke, Allison.** (2011). Folger Institute Fellowship. *The Folger Institute*, Washington, DC.
- Lukszo, Ula.** (2010). Meyer Graduate Award for contribution to the English Graduate Program. *Stony Brook University*, Stony Brook, NY.
- McGrath, Derek.** (2010). Meyer Graduate Award for Significant Contribution to the English Graduate Program. *Stony Brook University*, Stony Brook, NY.
- Meehan, William.** (2010). Thomas Flanagan Prize for the Best Essay Written by a Master's student/ *Stony Brook University*, Stony Brook, NY.
- Naydan, Liliana.** (2011). Presidents Award to Distinguished Doctoral Student. *State University of New York at Stony Brook*. Stony Brook, NY.
- Schactman, Benjamin.** (2010). Roger Rosenblatt Prize for Best Essay by a Doctoral Student. *Stony Brook University*, Stony Brook, NY.
- Streeter, Michael.** (2011). Roger Rosenblatt Prize for Best Essay by a Doctoral Student. *Stony Brook University*, Stony Brook, NY.
- Wade, Stephanie.** (2010). Marilyn and Ira Hechler Endowment Award for contributions to the English Graduate Program. *Stony Brook University*, Stony Brook, NY.

❖ **Abstracts, Conferences/Colloquia, Invited Talks, Presentations**

- Edwards, Naomi.** (2011). Melancholic Ghosts in Monique Truong's *The Book of Salt*. (Paper Presentation) *The Association for Asian American Studies Annual Meeting*, New Orleans, LA.
- Esposito, Lauren.** (2010). Collaborative Composition and Multimodal Technologies. (Paper Presentation) *The National Council of Teachers of English Annual Convention*, Orlando, FL.
- Galante, Nicole.** (2010). Building Online Communities of Teachers and Learners. (Paper Presentation) *The National Council of Teachers of English Annual Convention*, Orlando, FL.
- Lukszo, Ula.** (2010). The Female Cross-Dresser Domesticated Representations of Resourceful Women in Eighteenth-Century Narratives. (Paper Presentation) *The Northeast American Society for Eighteenth Century Studies Annual Meeting*, Buffalo, NY.
- Neefe, Lauren.** (2010). Composing the Medium of Desire: Epistolary, Print, and the Relay of Romantic Subjectivity in *Childe Harold's Pilgrimage*. (Paper Presentation) *The North American Society for the Study of Romanticism*, Vancouver, British Columbia, Canada.
- Vibert, David.** (2010). Differentiating Instruction Online: Making Meaning with Technologies. (Paper Presentation). *The National Council of Teachers of English National Convention*, Orlando, FL.

GENETICS

GRADUATE PROGRAM DIRECTOR: TURHAN CANLI

❖ Grants, Fellowships and Awards

Gucwa, Azad. (2010). Women in Cell Biology, Childcare Grant Award, \$500. *American Society for Cell Biology*. Philadelphia, PA.

Oomen-Hajagos, Jamina. (2010). Renate W. Chasman Scholarship for Women, \$4,000. Brookhaven Women in Science, Brookhaven National Laboratory (\$2,000), Upton, NY and Stony Brook University (\$2,000), Stony Brook, NY.

Ulloa, Nadine M (2010). Predoctoral Student Oral Presentation Award, \$100, *20th Annual Symposium on the Cannabinoids, International Cannabinoid Research Society*, Lünd, Sweden.

❖ Jointly Authored Publications/Research Reports/Reviews

Arabov-Mordechai, Malka, Mueller, S., Wimmer, E. (2010). [Synthetic attenuated virus engineering \(SAVE\): A novel strategy to generate viral vaccine candidates](#). *G.I.T. Laboratory Journal*, (14): 14-15.

Prieto-Echagüe VP, **Gucwa, Azad,** Brown DA, Miller WT. (2010). [Regulation of Ack1 localization by the amino-terminal SAM domain](#). *BMC Biochemistry*, (11): 42.

Nord AS, Roeb W, Dickel DE, Walsh T, **Kusenda, Mary,** O'Connor KL, Malhotra D, McCarthy SE, Stray SM, Taylor SM, Sebat J. STAART Psychopharmacology Network: King B, King MC, McClellan JM. (2011). [Reduced transcript expression of genes affected by inherited and de novo CNVs in autism](#). *Eur J Hum Genet*, 19(6):727-31.

Leonhard-Melief, Christina, Haltiwanger RS. (2010). [O-Fucosylation of thrombospondin type 1 repeats](#). *Methods in Enzymology*, (480): 401-416.

Du J, Takeuchi H, **Leonhard-Melief, Christina,** Shroyer KR, Dlugosz M, Haltiwanger RS, Holdener BC. (2010). [O-Fucosylation of thrombospondin type 1 repeats restricts epithelial to mesenchymal transition \(EMT\) and maintains epiblast pluripotency during mouse gastrulation](#). *Developmental Biology*, 346(1): 25-38.

Howlett AC, Reggio PH, Childers SR, Hampson RE, **Ulloa, Nadine M,** Deutsch DG. (2011). [Endocannabinoid tone versus constitutive activity of cannabinoid receptors](#). *British Journal of Pharmacology*, 163 (7): 1329-43.

❖ Abstracts, Conferences/Colloquiums, Presentations, Symposiums, Workshops

Gucwa, Azad, Brown, D.A. (2010). The endocytic adaptor protein Eps15 is recruited to endosomes in a Ubiquitin-dependent manner. *American Society of Cell Biology Annual Meeting*. Philadelphia, PA.

Prieto-Echagüe, V., **Gucwa, Azad,** Brown, D., Miller, WT. (2010). Regulation of Ack1 localization and activity by the amino-terminal SAM domain. *Salk Institute Meeting on Protein Phosphorylation and Cell Signaling*. La Jolla, CA.

Leonhard-Melief, Christina. Haltiwanger RS. (2010). O-Fucosylation of Thombospondin Type 1 Repeats: Mapping Sites and Refining the Consensus Sequence. Annual Conference for the Society of Glycobiology, St. Pete Beach, FL.

Thomas, Cindy. (2010). Mechanisms utilized by *Francisella tularensis* to interact with hepatocytes. XXX National Congress of the Italian Society of Pathology, Grand Hotel *Salerno*, Salerno, Italy.

Thomas, Cindy. (2011). Mechanisms utilized by *Francisella tularensis* to interact with hepatocytes. Experimental Biology, Washington DC.

Ulloa, Nadine M, and D.G. Deutsch. (2010). Cloning MAGL from putative translation initiation sites. 20th Annual Symposium on the Cannabinoids, International Cannabinoid Research Society, Lünd, Sweden.

❖ **Post-Doctorates Obtained and Professional Appointments**

Chiariello, Carmine. (2010). President & CEO, *CCMS Scientific, Inc.*, Hicksville, NY.

Gucwa, Azad. (2011). Assistant Professor. Department of Biomedical Sciences, *Long Island University, CW Post campus*, Brookville, NY.

Ulloa, Nadine M (2011). Postdoctoral Associate. Department of Molecular, Microbial, and Structural Biology, *University of Connecticut Health Center*, Farmington, CT.

GEOSCIENCES

DEPARTMENT CHAIR: RICHARD REEDER
GRADUATE PROGRAM DIRECTOR: BRIAN PHILLIPS

❖ Jointly Authored Publications

- Greenhagen, B.T., Lucey, P.G., Wyatt, M.B., Glotch, T.D., Allen, C.C., **Arnold, J.A.**, Bandfield, J.L., Bowles, N.E., Donaldson-Hanna, K., Hayne, P.O., Song, E., Thomas, I.R., Paige, D.A. (2010). [Global Silicate Mineralogy of the Moon from the Diviner Lunar Radiometer](#). *Science*, (329): 1507-1509.
- Che, C.**, Glotch, T. D., Bish, D. L., Michalski, J. R., and Xu, W. (2011). [Spectroscopic study of the dehydration and/or dehydroxylation of phyllosilicate and zeolite minerals](#), *Journal of Geophysical Research. Res.*, (116), E05007, DOI:10.1029/2010JE003740.
- Schoonen M.A.A., **Harrington A.D.**, Laffers R., and Strongin D.R. (2010). [Role of Hydrogen Peroxide and Hydroxyl Radical in Pyrite Oxidation by Molecular Oxygen](#). *Geochimica et Cosmochimica*, (74): 4971-4987.
- Glotch, T. D., Bandfield, J. L., Tornabene, L. L., **Jensen, H. B.**, and Seelos, F. P. (2010). [Distribution and formation of chlorides and phyllosilicates in Terra Sirenum, Mars](#). *Geophysical Research Letters.*, 37,L16202, DOI: 10.1029/2010GL044557.
- Pasachoff, J. M, **Suer, T.** (2010). [The origin and diffusion of the H and K notation](#). *Journal of Astronomical History and Heritage* (ISSN 1440-2807), (13): 120 - 126.
- Che, C.C., Glotch, T.D., Bish, D.L., Michalski, J.R., and **Xu, W.** (2011). [Spectroscopic study of the dehydration and/or dehydroxylation of phyllosilicate and zeolite minerals](#). *Journal of Geophysical Research-Planets*, 116E05007.
- Xu, W.**, Parise, J. B. (2011). [Synthetic ferric sulfate trihydrate, \$\text{Fe}_2\(\text{SO}_4\)_3 \cdot 3\text{H}_2\text{O}\$, a new ferric sulfate salt](#). *Acta Crystallographica Section C – crystal structure communications*, (67): I30-I32.
- Xu, W.**, Hausner, D. B., Harrington, R., Lee, P. L., Strongin, D. R., Parise, J. B. (2011). [Structural water in ferrihydrite and constraints this provides on possible structure models](#), *American Mineralogist*, 96(4): 513-520.
- Banerjee, D., Kim, S. J., Wu, H., **Xu, W.**, Borkowski, L. A., Li, J., Parise, J. B. (2011). [Anionic Gallium-Based Metal-Organic Framework and Its Sorption and Ion-Exchange Properties](#). *Inorganic Chemistry*, 50(1): 208-212.
- Xu, W.**, Parise, J. B., Hanson, J. (2010). [\$\(\text{H}_3\text{O}\)\text{Fe}\(\text{SO}_4\)_2\$ formed by dehydrating rhomboclase and its potential existence on Mars](#). *American Mineralogist*, 95(10): 1408-1412.
- Banerjee, D., Kim, S. J., Borkowski, L. A., **Xu, W.**, Parise, J. B. (2010). [Solvothermal synthesis and structural characterization of ultralight metal coordination networks](#). *Crystal Growth & Design*, 10(2): 709-715.
- Zhu Q.**, Oganov A.R., et. Al. (2011). [Denser than diamond: Ab initio search for superdense carbon allotropes](#), *Journal of Physical Review B*, (83): 193410.

❖ Abstracts, Conferences/Colloquia, Invited Talks, Presentations

- Arnold, J.A,** Glotch, T.D. (2011). [Mid-IR Optical Constants of Anisotropic Materials](#). *42nd Lunar and Planetary Science Conference*, The Woodlands, TX.
- Arnold, J.A,** Glotch, T.D. (2011). [Olivine-enriched regions as seen by Diviner](#). *NASA Lunar Science Forum*, Moffett Field, CA.
- Che, C.,** Glotch, T. D. (2011). [Spectroscopic Study of Dehydrated and/or Dehydroxylated Phyllosilicates and Natural Zeolites: Implications for Martian Exploration](#). *42nd Lunar and Planetary Science Conference*, The Woodlands, TX (abstract 1393).
- Chen, Y Wen, L.X.** (2010). [Fine seismic velocity structure of the 410 km and 660 km discontinuities beneath eastern Asia](#). *AGU Fall Meeting*, San Francisco, CA.
- Chen, Y Wen, L.X.** (2011). [Seismic velocity structure features of the 410 km and 660 km discontinuities beneath eastern Asia](#). *Gordon Research Conference*, South Hadley, MA.
- Harrington, A.D** (2011). Iraqi Dust and Health Issues among Armed Services Personnel: An *in vitro* study. *IGERT Spring Symposia*, University of Minnesota, MN.
- Harrington, Andrea.** (2011). 50th Anniversary Annual Society of Toxicology Meeting. Quantitative *in vitro* to *in vivo* Extrapolation: The Essential Elements of *in vitro* Assay-Based Risk Assessment Workshop.
- Harrington, A.D** (2010). Pyrite driven ROS formation in simulated lung fluid: Implications for Coal Workers' Pneumoconiosis. *IGERT Fall Symposia*, Stony Brook, NY.
- Long, Hui.** (2010). Using repeating earthquakes to determine temporal medium changes: theory and an example. *2010 AGU FALL MEETING*, San Francisco, CA.
- Dyar, M. D., **Sklute, E. C.**, Knutson, J. K., Glotch, T. D., **Che, C.**, Lin, J., Holden, J. (2011). [Spectroscopy of mineral reaction products from bioreduction by hyperthermophiles: potential for planetary biomarkers](#). *42nd Lunar and Planetary Science Conference*, The Woodlands, TX (abstract 175).
- Jensen, H. B.**, and Glotch, T. D. (2011). Emulating Putative Chloride Spectral Character from CRISM Data using Mixtures of Halite or Pyrite with Simple Minerals and Rocks. *41st Lunar and Planetary Science Conference*, The Woodlands, TX. (poster).
- Schmidt, M. P** Lanzirotti, A., Szema, A. M., **Harrington, A. D.**, Schoonen, M. A. A., Reeder, R. J. (2011). Not your typical iron lung: A micro-XRF study of a soldier's lungs. *NSLS User Meeting*, Upton, NY.
- Schmidt, M. P.**, Beg, M., Uzzi, B., Celestian, A. (2011). Toxic metal removal by zeolite. *Brookhaven National Lab*, Upton, NY. (invited talk).
- Schmidt, M. P.**, Uzzi, B. (2011). Citric acid process of remediation. *Brookhaven National Lab*, Upton, NY. (invited talk).
- Dyar, M. D., **Sklute, E. C.**, Knutson, J. K., Glotch, T. D., **Che, C.**, Lin, J., Holden, J. (2011). Spectroscopy of mineral reaction products from bioreduction by hyperthermophiles: potential for planetary biomarkers, *42nd Lunar and Planetary Science Conference*, The Woodlands, TX (abstract 175).

Karunatillake, S., **Zhao, Y.**, and McLennan, S. M. (2010). Sulfur, chlorine, and bromine variations in the soil profile at Gusev crater, Mars. *American Geophysical Union Fall Meetin*, San Francisco, CA. (Abstract).

Zhao, Y. and McLennan, S. M. (2011). Experimental Evaluation Photochemical Influences on Bromine and Chlorine Geochemistry on Mars. *42nd Lunar and Planetary Science Conference*, The Woodlands, TX. (Poster).

Zhu Q., Oganov A.R. (2011). Structure prediction for molecular crystals using evolutionary algorithms: methodology and applications. *American Physical Society March meeting*, Dallas, TX (Presentation).

Zhu Q. (2011). Towards the prediction of new materials with desired properties: application on carbon. *DN-NSM 2011*, Poitiers, France (Presentation).

Zhu Q. (2011). Structure prediction for molecular crystals using constrained evolutionary algorithms: methodology and applications. *DN-NSM 2011*, Poitiers, France (Invited talk).

❖ **Post-doctorates Obtained and Professional Appointments**

Li, Wei. (2009). Post-doctoral Research Associate, Delaware Environmental Institute, *University of Delaware*, Newark, DE.

Smirnov, Alexander. (2011). Assistant Professor in Geosciences, *Dowling College*, Oakdale, NY.

Xu, Wenqian (2011) Postdoctoral Research Associate. Department of Chemistry, *Brookhaven National Laboratory*, Upton, NY.

HISPANIC LANGUAGES & LITERATURE

DEPARTMENT CHAIR: VICTORIANO RONCERO-LÓPEZ
GRADUATE PROGRAM DIRECTOR: KATHLEEN VERNON

❖ Abstracts, Conferences/Colloquia, Invited Talks, Presentations

Allbritton, Dean. (2011). All About My Father: The Crisis of Masculinity in Almodóvar. *CINE-LIT. An International Conference on Hispanic Film and Literature*, Portland, OR.

Allbritton, Dean. (2011). Shoes & Wheels: The Prosthetics of Masculinity in Quid Pro Quo. *The Society for Cinema and Media Studies 2011 National Conference*, New Orleans, LA.

Allbritton, Dean. (2011). Panel Chair and Organizer, Personal Space and Mediated Bodies in the American City. *The Society for Cinema and Media Studies 2011 National Conference*, New Orleans, LA.

Alvarez, Gabriela. (2011). Youth, Rebellion and Death: The Potentially Successful Coming of Age in Gerardo Naranjo's *Voy a explotar*. *CINE-LIT. An International Conference on Hispanic Film and Literature*, Portland, OR.

Fredrick, Sharonah. (2011). Deconstruyendo a Jose Juan Arrom: La Presencia Negra en Lexicología Antillana. *Southwest Conference on Latin American Studies*, San Juan, Puerto Rico.

Fredrick, Sharonah. (2011). Angel Rama y los indigenas invisibles: estamentos ocultos de La Ciudad Letrada. *HISPLITS Hispanic Literature Conference*, Lehman College-CUNY, New York, NY.

Herbias, Ericka. (2011). Sin dejar huella (Mexico, 2000): Subvirtiendo a los héroes y a su gloria en un film de María Novaro." *CINE-LIT. An International Conference on Hispanic Film and Literature*, Portland, OR.

Osborne, Elizabeth. (2011). The Ethics and Aesthetics of Violence in Ciudad de Deus. *CINE-LIT. An International Conference on Hispanic Film and Literature*, Portland, OR.

Shilova, Anna. (2011). Multiplication of Plots and Realities in Hispanic Cinema. *CINE-LIT. An International Conference on Hispanic Film and Literature*, Portland, OR.

❖ Professional Appointments

Allbritton, Dean. (2011). Assistant Professor. Spanish Department. *Colby College*, Waterville, ME.

HISTORY

DEPARTMENT CHAIR: MICHAEL BARNHART
GRADUATE PROGRAM DIRECTOR: PAUL ZIMANSKY

❖ Grants, Fellowships, and Awards

Martone, Eric. (2010). Bernadotte E. Schmitt Research Grant, \$750, *American Historical Association*, Washington, D.C.

Martone, Eric. (2010-11). John Rogers Memorial Award for Outstanding Contributions to the Teaching and Learning of Black History, *Connecticut Educator's Association*, Hartford, CT.

Rosenthal, Gregory. (2010). Phi Alpha Theta / World History Association Student Paper Prize (Graduate Division), \$400. *World History Association*, Honolulu, Hawaii.

Sloan, Elizabeth. (2011). Trans-Atlantic Summer Institute in European Studies Fellowship, \$3,000. *University of Minnesota Center for German and European Studies*, Minneapolis, MN.

❖ Singly Authored Publications/Research Reports/Reviews

Chambers, Mark. (2010). [Chambers on Hardesty](#). *H-Net Reviews in the Humanities & Social Sciences*.

Martone, Eric. (2011). [A French precursor of Obama: The commemoration of General Alexandre Dumas and French reconciliation with the past](#). In E., Martone (Ed.), *The Black Musketeer: Reevaluating Alexandre Dumas within the Francophone world*. (207-247), Newcastle: Cambridge Scholars Publishing.

Martone, Eric (2011). [Alexandre Dumas as a Francophone author](#). In E., Martone (Ed.), *The Black Musketeer: Reevaluating Alexandre Dumas within the Francophone world*. (1-30), Newcastle: Cambridge Scholars Publishing.

Martone, Eric (2010). Emile Zola. In K., Hendrickson and G., Sanford (Eds.), *Encyclopedia of the Industrial Revolution in world history*, New York: Facts on File.

Martone, Eric. (2010). Charles Dickens. In K., Hendrickson and G., Sanford (Eds.), *Encyclopedia of the Industrial Revolution in world history*, New York: Facts on File.

Martone, Eric. (2010). [Creating a local black identity in a global context: The French writer Alexandre Dumas as an African American](#). *Lieu de Mémoire. Journal of Global History*, 5(3): 395-422.

Martone, Eric. (2010). [The Black Musketeer: Celebrating Alexandre Dumas as a symbol of la Francophonie](#). *Indiana University West European Studies Center*.

Rosenthal, Gregory. (2011). [Boki's predicament: The material culture and environmental history of Hawaiian Sandalwood, 1811-1830](#), *World History Bulletin*, 27(1): 46-62.

❖ Book Publication

Froylan Enciso. (2011). El Guamúchil de la Noria y el conteo de muertos: La matanza que nunca fue. In Diego Enrique Osorno (Ed.) *País de muertos. Crónicas contra la impunidad*, México, Debate, 281-308.

Gómez Florentín, Carlos. (2010). *El Paraguay de la Postguerra (1870-1900)*. Asunción, Paraguay: Editorial El Lector.

Gómez Florentín, Carlos. (2011). [Higinio Morínigo, el soldado-dictador](#) Asunción, Paraguay: Editorial El Lector.

Martone, Eric. (Eds.). (2011). [The Black Musketeer: Reevaluating Alexandre Dumas within the Francophone World](#). Newcastle: Cambridge Scholars Publishing.

❖ **Jointly Authored Publications**

Lee, Bob, Zhang, Aihua. (2010). Women's leisure and leisure satisfaction in contemporary urban China. *World Leisure Journal*, 52 (3): 211-221.

❖ **Abstracts, Conferences/Colloquia, Invited Talks, Presentations**

Bosco, Christina. (2011). Off with his hedge: Levellers, diggers and enclosures during the English Revolution. *University of Manchester*, Manchester, UK.

Bosco, Christina. (2010). "Waiting." "Winter Light." "Day Light." *Patchogue Walking Arts Tour Juried Art Exhibit*, Patchogue New York. (Photography).

Chambers, Mark. (2010). Penning narratives and sketching illustrations: Descriptions of a North American mining site. *American Society for Environmental History and The National Council on Public History*, Portland, OR.

Froylan Enciso. (2010). Drug wars in Mexico. *Center for Civic Engagement of Hofstra University at the Day of Dialogue VIII: Public Issues in a Global World*, Hempstead, NY.

Hall, Clarence. (2011). Prisons as economic savior in New York's Adirondacks, 1975-1999. *Annual Meeting of the American Society for Environmental History*, Phoenix, AZ.

❖ **Other: Media and General Coordination of Conferences**

Froylan Enciso (2011). Coordinator and introductory remarks (Conference). Defining the future of public higher education. *State University of New York at Stony Brook*, Stony Brook, NY.

Froylan Enciso. (2011). Coordinator and introductory remarks. Book Launch of *Down and delirious in Mexico City* by Daniel Hernandez, *Latin American and Caribbean Studies Center of the State University of New York at Stony Brook*, Stony Brook, NY.

Froylan Enciso. (2011). Coordinator and introductory remarks (Conference). *One Night with the Most Dangerous Man of America* by Daniel Ellsberg, *State University of New York at Stony Brook*. Stony Brook, NY.

Froylan Enciso (2011). Coordinator and introductory remarks (Conference). *Stemming the catastrophe: A new vision for educational reform in Mexico*. The Citizen's Coalition For Education-Mexico, Graduate Center of the City University of New York. New York, NY

LINGUISTICS

DEPARTMENT CHAIR: MARK ARONOFF
GRADUATE PROGRAM DIRECTOR: (Ph.D.) MARIE HUFFMAN
(M.A.) RICHARD LARSON

❖ Grants, Fellowships, and Awards

Antonenko, Andrei. (2011). President's Award for Excellence in Teaching by a Graduate Student, \$500. *Stony Brook University*, Stony Brook, NY.

Lu, Yu-an. (2011). Dissertation Fellowship for ROC Students Abroad, \$15,000 USD, Chiang *Ching-Kuo* Foundation, Taipei, Taiwan.

Schuhmann, Katharina. (2011). Dissertation Grant for Research in Second or Foreign Language Assessment, \$2,000. *Educational Testing Service*, Princeton, NJ.

❖ Singly Authored Publications

Antonenko, Andrei. (2011). Binding by phases: Principle A in Russian. In P. Kosta and L. Schürcks (Eds.) [*Formalization of Grammar in Slavic Languages*](#). ISBN: 978-3-631-61869-1 hb, Peter Lang.

Kim, Hyun-ju. (2011). [*Access to inverse scope in Korean-English bilingual children*](#). *Korean Journal of English Language and Linguistics* , 11 (2): 269-464.

❖ Jointly Authored Publications

LaTerza, Chris and **Mitrovic, Ivana.** (2010) . Reciprocal phrases in Serbo-Croatian. *Formal Approaches to Slavic Linguistics 18 Proceedings*, 270-284.

Lindsay, Mark and Aronoff, Mark. (2011). Natural Selection in Self-Organizing Morphological Systems. In Fabio Montermini et al.(Eds.) *Selected Proceedings of the 7th Décembrettes*, Germany:Lincom Europa.

MARINE AND ATMOSPHERIC SCIENCES

GRADUATE PROGRAM DIRECTOR ANNE MCELROY

❖ Grants, Fellowships, and Awards

Stubler, Amber. (2011). Sigma Xi Grants-in-Aid of Research, \$520. *Sigma Xi: The Scientific Research Society*, Research Triangle Park, North Carolina.

Stubler, Amber. (2011). Harbor Branch Oceanographic Institute Graduate Summer Fellowship, \$3500. *FAU-Harbor Branch Oceanographic Institute and the Link Foundation*, Fort Pierce, FL.

Stubler, Amber. (2011). Smithsonian Tropical Research Institute Short Term Fellowship, \$4700. *Smithsonian Tropical Research Institute*, Panama City, Panama.

Sagarese, Skyler. (2010). NMFS-Sea Grant Joint Fellowship in Population Dynamics, \$38,500. *National Marine Fisheries Service and New York Sea Grant*, Stony Brook, NY

Patrician, Melissa. (2011). Friends of Chatham Waterways Environmental Studies Scholarship, \$2500. *Friends of Chatham Waterways*, Chatham, MA.

❖ Jointly Authored Publications

Sagarese, Skyler and Frisk, M.G. (2010). [An investigation on the effect of photoperiod and temperature on vertebral band deposition in little skate](#). *Leucorajaerinacea. Journal of Fish Biology* 77(4):935-946.

Dahl S.F., Perrigault M., Liu Q, Collier J.L., Barnes D.A., Allam B. (2011). [Effects of temperature on hard clam \(*Mercenariamercenaria*\) immunity and QPX \(Quahog Parasite Unknown\) disease development: I. Dynamics of QPX disease](#). *Journal of Invertebrate Pathology* (106): 314-321.

Perrigault M., **Dahl S.F.**, Pales Espinosa E., Gambino L., Allam B. (2011). [Effects of temperature on hard clam \(*Mercenariamercenaria*\) immunity and QPX \(Quahog Parasite Unknown\) disease development: II. Defense parameters](#). *Journal of Invertebrate Pathology*. (106): 322-332.

MATERIALS SCIENCE

DEPARTMENT CHAIR: MIKE DUDLEY
GRADUATE PROGRAM DIRECTOR: DILIP GERAPPE

❖ Grants, Fellowships, and Awards

Dagum Alex B., **Bhatnagar Divya**, Rafailovich Miriam, Conkling Nicole, Phillips Brett, Khan S. U., Bui D. T.; PSEF Pilot Research Grant, \$10000, *The Plastic Surgery Educational Foundation*, New York, NY.

Dorst, K. (2011). Grants in Aid of Research Award, \$1000. *Sigma Xi Scientific Research Society*, Triangle Park, NC.

Flynn, Katherine. (2010). GAANN Fellowship, \$26,500, *Department of Education*, Washington, DC.

Gin, Peter. (2010). GAANN Fellowship, \$26,500, *Department of Education*, Washington, DC, USA..

Horvat, Kristine. (2010). GAANN Fellowship, \$26,500, *Department of Education*, Washington, DC.

Ortiz, Joseph. (2010). GAANN Fellowship, \$26,500, *Department of Education*, Washington, DC.

Kuttiyiel, Kurian. (2010). Dr. Bernard S. Baker Student Award for Fuel Cell Research. *Fuel Cell Seminar, South Carolina Hydrogen and Fuel Cell Alliance*, Columbia, SC.

Ramakrishnan, Girish, Shen, Peichuan and Zhao, Shen. (2011). Certificate of Merit Award. *American Chemical Society Environmental Division* for co-authorship of the paper: [Novel applications of sub-nm noble metal particles for photocatalysis](#), (104): 239-244.

Young, Christopher N (2011). Graduate Student Award for Applied Spectroscopy, \$250, *New York Society for Applied Spectroscopy*, New York, NY.

❖ Jointly Authored Publications

Dwivedi, Gopal., Nakamura, T. and Sampath, S. (2011). Controlled introduction of anelasticity in plasma-sprayed ceramics. *Journal of the American Ceramic Society*, (94): s104–s111.

Gin, Peter, Asada, M., Endoh, M.K., and Koga, T. (2011). Manipulation of Cylinder Forming Block Copolymer Thin Films in Density Fluctuating Supercritical Carbon Dioxide. *NSF CMMI Research and Innovation Conference 2011*, Atlanta, GA.

Gin, Peter, Jiang, N., Endoh, M.K., Akgun, B., Satija, S.K. and Koga, T. (2011). Effect of Supercritical Carbon Dioxide on Attractive Polymer/Substrate Interactions. *American Physical Society March Meeting 2011*, Dallas, TX.

Gin, Peter, Jiang, N., Endoh, M.K., Akgun, B., Satija, S.K. and Koga, T. (2011). Screening Behavior of Highly Compressible Supercritical Carbon Dioxide on Attractive Polymer/Substrate Interactions. *American Crystallographic Association Annual Meeting*, New Orleans, LA.

Gin, Peter, Jiang, N., Endoh, M.K., Akgun, B., Satija, S.K. and Koga, T. (2011). The Effect of Density Fluctuating Supercritical Carbon Dioxide on Strong Polymer/Substrate Interactions. *National Synchrotron Light Source Seminar*, Upton, NY.

Sasaki, K; Kuttiyel, K; Su, D; Adzic, R. (2011). [Platinum monolayer on IrFe core-shell nanoparticle electrocatalysts for the oxygen reduction reaction](#), *Electrocatal.* (2): 134-140.

Sasaki, K; **Kuttiyel, K**; Barrio, L; Su, D; Frenkel, A; Marinkovic, N; Mahajan, D; Adzic, R. (2011). Carbon-Supported IrNi Core-Shell Nanoparticles: Synthesis, Characterization, and Catalytic Activity. *Journal of Physical Chemistry*, (115): 9894–9902.

Lee, Jusang and Gouma, Pelagia I. (2011). [Tailored 3D CuO nanogrid formation](#). *Journal of Nanomaterials*, DOI: 10.11552011863631.

Ramakrishnan, G., Zhao, S Han, W., Orlov, A. (2011). Simultaneous observation of gas phase and surface species in photocatalytic reactions on nanosize Au modified TiO₂: The next generation of DRIFTS systems. *Chemical Engineering Journal*, (170): 445-450.

Luo, Liang; Wilhelm, Christopher; **Young, Christopher N**; Grey, Clare P.; Halada, Gary P.; Xiao, Kai; Ivanov, Ilia N.; Howe, Jane Y.; Geohegan, David B.; Goroff, Nancy S. (2011). [Characterization and carbonization of highly oriented poly \(diiododiacetylene\) nanofibers](#). *Macromolecules.*, 44 (8): 2626–2631.

Wynne, James H.; Watson, Kelly E.; Yesinowski, James P.; **Young, Christopher N**; Clayton, Clive R.; Nesteruk, Nick; Kelley, Jack.; Braswell, Tom. (2010). Interim report on scientific basis for paint stripping; Mechanism of methylene chloride based paint removers. *NRL Memorandum Report* , NRL/MR/6120-10-9303.

❖ **Abstracts, Conferences/Colloquia, Invited Talks, Presentations**

Bhatnagar, Divya, Cowman, M., Rafailovich. M. (2010). Physically crosslinked hyaluronic acid based novel hydrogels, *MRS Annual Fall Meeting*, Boston, MA. (Poster).

Bhatnagar, Divya, Jurukovski Vladimir, Rafailovich Miriam, Simon Marcia. November. (2010). Differentiation and behavior of dental pulp stem cells in hydrogel scaffolds of varying stiffness (Oral), *MRS Annual Fall Meeting*, Boston, MA.

Conkling, N, Phillips BT, **Bhatnagar Divya**, Rafailovich M, Wang, ED, Khan, SU, Bui, DT, Dagum, AB. August. (2010). Quantifying contraction of muscles of facial expression using digital image speckle correlation (DISC) analysis (Oral), *European Plastic Surgery Research Council*, Hamburg, Germany .

Conkling, N, Phillips BT, **Bhatnagar Divya**, Rafailovich M, Melendez MM, Khan SU, Bui DT, Dagum AB. December. (2010). Quantifying contraction of muscles of facial expression using digital image speckle correlation (DISC) analysis (Poster), *ACS Long Island and Brooklyn Chapter Annual Clinic Day*, Uniondale, NY.

Bhatnagar, Divya, Jurukovski Vladimir, Bherwani Aneel, Rafailovich Miriam, Simon Marcia. March. (2011) Differentiation and behavior of dental pulp stem cells in hydrogel scaffolds of varying stiffness (Oral), *American Physical Society March Meeting*, Dallas, TX.

Conkling, N, Phillips BT, **Bhatnagar Divya**, Rafailovich M, Melendez MM, Khan SU, Bui DT, Dagum AB. April. (2011) Digital image speckle correlation (DISC) analysis as a prospective quantitative clinical outcomes metric for cosmetic treatment with botulinum toxin type A (Oral), *56th Plastic Surgery Research Council*, Louisville, KY.

- Conkling, N, Phillips BT, **Bhatnagar Divya**, Rafailovich M, Melendez MM, Khan SU, Bui DT, Dagum AB. May. (2011) Quantifying the effect and duration of cosmetic treatment with botulinum toxin type A using digital image speckle correlation analysis (Oral), *16th Congress of the International Confederation for Plastic Reconstructive and Aesthetic Surgery*, Vancouver, British Columbia, Canada.
- Bhatnagar, Divya**, Rafailovich Miriam, Conkling Nicole, Phillips Brett, Khan S. U., Bui D. T., Dagum Alex B. (2011). Digital image speckle correlation (DISC) analysis for quantifying the effect and duration of cosmetic treatment with botulinum toxin (BT) type A” (Poster), *71st Annual Meeting of Society of Investigative Dermatology*, Phoenix, AZ.
- Bhatnagar, Divya**, Rafailovich Miriam, Conkling Nicole, Phillips Brett, Khan S. U., Bui D. T., Dagum Alex B. (2011). Digital image speckle correlation (DISC) analysis for quantifying the effect and duration of cosmetic treatment with botulinum toxin (BT) type A (Poster), *SBU-BNL Research Day*, Stony Brook, NY.
- Dudley, M., **Byrappa S.**, Wang, H., Wu, F., Zhang, Y Raghathamachar, B., Choi, G., Sanchez, E., Hansen, D., Drachev, R., and Loboda, M. (2010). Analysis of Dislocation Behavior in Low Dislocation Density, PVT-Grown, Four-Inch Silicon Carbide Single Crystals. In S.E. Sadow, E.Sanches, F. Zhao, M. Mudley (Ed.). *Silicon Carbide 2010 — Materials, Processing, and Devices*. Mater. Res. Soc. Symp. Proc., **1246**, 1246-B02-02, Warrendale, PA.
- Dudley, D., **Byrappa B.**, Wang, H., Wu, F., Raghathamachar, B., Choi, G., Sun, S., Sanchez, E.K., Hansen, D., Drachev, R., Mueller, S., and Loboda, M.J. (2010). In E., Monakhov, T. Hormos & B., Svensson (Ed.), *Formation Mechanism of Stacking Faults in PVT 4H-SiC Created by Deflection of Threading Dislocations with Burgers Vector $c+a$* , “ in *Silicon Carbide, III-Nitrides, and Related Materials*. Materials Science Forum, 679-680, 269-272.
- Dudley, M., **Byrappa S.**, Wang, H., Wu, F., Raghathamachar, B., Choi, G., Sun, S., Sanchez, E. K., Hansen, D., Drachev, R., Mueller, S., and Loboda, M. J. (2011). In E. Monakhov, T. Hormos, B. Svensson (Ed.). *Formation Mechanism of Stacking Faults in PVT 4H-SiC Created by Deflection of Threading Dislocations with Burgers Vector $c+a$* , “ in *Silicon Carbide, III-Nitrides, and Related Materials*. Materials Science Forum, 679-680, 269-272.
- Dorst, K**, Horne, J., Meng, Y. (2011). The effect of substrate properties on osteoblast shape, adhesion, and motility. *Sigma Xi Northeast regional 2011 meeting*, Stony Brook, NY.
- Dorst, K**, Horne, J., Meng, Y. (2010). A comparative study of osteoblasts and osteosarcoma cells in conditioned media. *American Society of Cell Biology, 50th Annual Meeting*, Philadelphia, PA.
- Dwivedi, Gopal**. (2010). On the biomimetic response of thermally sprayed materials. *Provost's Graduate Lecture Series*, Stony Brook University, Stony Brook, NY.
- Dwivedi, Gopal**. (2011). Effect of moisture on the compliance of thermal barrier coatings. *Thermal Barrier Coatings III Conference*, Irsee, Germany.
- Dwivedi, Gopal**. (2011). Mechanical compliance in thermal barrier coatings: Quantification and its application in coatings design and repeatability assessment. *International Thermal Spray Conference*, Hamburg, Germany.
- Dwivedi, Gopal**. (2011). Natural and synthetic layered structures: Nacre vs plasma sprayed ceramics. *International Thermal Spray Conference*, Hamburg, Germany.
- Gaowei, Mengjia**. (2010). Electronic impact of defects in diamond. *2010 NSLS User Meeting*. Upton, NY.

- Gaowei, Mengjia.** (2010). Investigation and numerical simulation of x-ray section topography images of defects in CVD diamond. *Diamond Electronics and Bioelectronics — Fundamentals to Applications III. Mater. Res. Soc. 2010 Fall Meeting*. Boston, MA.
- Gaowei, Mengjia.** (2011). Response uniformity in diamond X-ray photodiodes. *2011 NSLS User Meeting*. Upton, NY. (Winner of Graduate Student Poster award.).
- Gin, Peter,** Asada, M., Endoh, M.K., and Koga, T. (2011). Manipulation of cylinder forming block copolymer thin films in density fluctuating supercritical carbon dioxide. *NSF CMMI Research and Innovation Conference 2011*, Atlanta, GA.
- Gin, Peter,** Jiang, N., Endoh, M.K., Akgun, B., Satija, S.K. and Koga, T. (2011). Effect of supercritical carbon dioxide on attractive polymer/substrate interactions. *American Physical Society March Meeting 2011*, Dallas, TX.
- Gin, Peter,** Jiang, N., Endoh, M.K., Akgun, B., Satija, S.K. and Koga, T. (2011). Screening behavior of highly compressible supercritical carbon dioxide on attractive polymer/substrate interactions. *American Crystallographic Association Annual Meeting*, New Orleans, LA.
- Gin, Peter,** Jiang, N., Endoh, M.K., Akgun, B., Satija, S.K. and Koga, T. (2011). The effect of density fluctuating supercritical carbon dioxide on strong polymer/substrate interactions. *National Synchrotron Light Source Seminar*, Upton, NY.
- Horvat, Kristine, Kerkar, P.,** Jones, K., & Mahajan, D. (2011). Imaging CO₂ hydrates under simulated seafloor conditions at macro and micro scale. *241st ACS National Meeting & Exposition; Gas Hydrate, Clathrates, and Alternative Energy Sources; Production and Processing Chemistry Symposium*, Anaheim, CA.
- Sasaki, K., **Kuttiyiel, K.,** Su, D., Adzic, R. (2011). Platinum monolayer on Ir-M core-shell nanoparticle electrocatalyst for fuel cells. *E-Beam Micro-characterization and Nanoscale Research Contractors' Meeting*, Annapolis, MD.
- Sasaki, K; **Kuttiyiel, K.,** Barrio, L., Su, D., Frenkel, A., Marinkovic, N., Mahajan, D; Adzic, R. (2011). Carbon supported IrNi core shell nanoparticles: Synthesis, characterization and catalytic activity. *219th Electrochemical Society Meeting*, Ontario, Canada.
- Kuttiyiel, K.,** Sasaki, K; Su, D; Adzic, R. (2010). Bimetallic Ni-Ir core platinum monolayer shell electrocatalysts for the oxygen reduction reaction. *218th Electrochemical Society Meeting*, Las Vegas, NV.
- Kuttiyiel, K.** (2010). Platinum monolayer on Ni-Ir core shell electrocatalysts for the oxygen reduction reaction. *Fuel Cell Seminar*, San Antonio, TX..
- Kuttiyiel, K,** Sasaki, K., Su, D., Adzic, R. (2010). Platinum monolayer shell electrocatalysts for the oxygen reduction reaction. *DOE review*, Center of Functional Nanomaterials, BNL, NY.
- Lee, Jusang** and Gouma, Pelagia. (2011). A novel method for synthesis of 3-d wo₃-cuo nanogrids. *International Symposium on Olfaction and Electronic Nose (ISOEN 2011)*, New York, NY. (Poster) .
- Lee, Jusang** and Gouma, Pelagia. (2010). Metal oxide photocatalysis under visible light. *Materials Research Society Symposium*, Boston, MA. (Poster).
- Lee, Jusang** and Gouma, Pelagia. (2010). Self supported 3D ceramic photocatalytic nanogrids, *Advanced Energy Conference*, New York, NY. (Poster).

- Lee, Jusang** and Gouma, Pelagia. (2010). Metal oxide photocatalysis for oil decomposition. *Gulf Oil Spill Conference*, New Orleans, LA (Poster).
- Lee, Jusang** and Gouma, Pelagia. (2010). Ferroelectric WO₃ nanostructures for nanoelectronics. *Materials Research Society Symposium*, Boston, MA.
- Lee, Jusang** and Gouma, Pelagia. (2010). Tailored 3D CuO nanogrid formation for sensors and photocatalysts, *International Congress on Ceramics*, Osaka Japan.
- Pan, Cheng**, Qin,Sisi, Kao, Kenny and Rafailovich, Miriam. (2010). Nanoparticle enhancement of polymer electrolyte membrane fuel cell. *2010 Materials Research Society Fall Meeting*, Poster, Fuel Cell. Boston, MA. (Poster).
- Pan, Cheng**, Qin,Sisi, Kao, Kenny and Rafailovich, Miriam. (2010). Nanoparticle enhancement of polymer electrolyte membrane fuel cell. *Advanced Energy Meeting*. New York, NY. (Poster).
- Pan, Cheng**, Qin,Sisi, Kao, Kenny and Rafailovich, Miriam. (2010). Nanoparticle enhancement of polymer electrolyte membrane fuel cell. *NIST Center for Neutron Research Summer School*, Gaithersburg, MD. (Poster).
- Pan, Cheng**, Qin,Sisi, Kao, Kenny and Rafailovich, Miriam. (2010). Interdiffusion in thin polymer films. *2010 NIST Center for Neutron Research Summer School*, Gaithersburg, MD.
- Young, Christopher N**, Clayton, Clive.R. (2010). Spectroscopic analysis of the effects of methylene chloride- and phenol-based paint stripping solvent exposure on model coating systems. *Partners in Environmental Technology Technical Symposium & Workshop*, Washington, DC.
- Zhang, Chi**, Liu, Gaojun, Li, Zhenghao, Zaitsev, Vladimir, Meng, Yizhi. (2011). Using supercritical fluid technology to develop a biomimetic 3D porous scaffold for bone tissue engineering. *Northeast Regional Sigma Xi Research Symposium*, Stony Brook, NY.
- Zhang, Y** Chen, H., Dudley, M., Zhang, Y., Edgar, J., Gong, Y., Bakalova, S., Kuball, M., Zhang, L., Su, D., Kisslinger, K., and Y. Zhu. (2010). Mechanism for Improved Quality B12As₂ Epitaxial Films on (0001) 4H-SiC Substrates by Tilting toward [1-100] Direction. In S.E. Sadow, E. Sanchez, F. Zhao, M. Dudley (Ed.). *Silicon Carbide 2010 — Materials, Processing, and Devices*, Mater. Res. Soc. Symp. Proc., (1246,-B04-02), Warrendale, PA.
- Whitely, C., Mayo, A., Edgar, J.H., Gong, Y., Kuball, M., **Zhang, Y** and Dudley, M., (2011). Solution Growth and Characterization of Icosahedral Boron Arsenide (B12As₂). In J. Edgar, M. Kuball & M. Dudley (Ed.). *Boron and Boron Compounds – from Fundamentals to Applications (1307 E.)* Mater. Res. Soc. Symp. Proc., Warrendale, PA,
- Whitely, C., Mayo, A., Edgar, J.H., Dudley, M. and **Zhang, Y**. (2010). Defect Selective Etching of Icosahedral Boron Arsenide (B12As₂) Single Crystals in Molten Potassium Hydroxide,. In J.H. Edgar, M. Kuball & M. Dudley (Ed.). *Boron and Boron Compounds – from Fundamentals to Application (1370E.)*. Mater. Res. Soc. Symp. Proc., Warrendale, PA, 1307-cc05-18.
- Zhang, Y** Chen, H., Dudley, M., Zhang, Y., Edgar, J.H., Gong, Y., Bakalova, S., Kuball, M., Zhang, L., Su, D., and Zhu, Y. (2011). Elimination of degenerate epitaxy in the Growth of High Quality B12As₂ Single Crystalline Epitaxial Films”, to appear in “Boron and Boron Compounds – from Fundamentals to Applications”, Edgar, J.H., Kuball, M. and Dudley, M. (Eds.), Mater. Res. Soc. Symp. Proc., 1307E, 1307-cc02-03, Warrendale, PA.

Zhang, Y Edgar, J.H., Zhang, Y., Dudley, M., Z. Zhu, Gong, Y., Bakalova, S., and Kuball, M., “Electrical Properties of Silicon Doped Icosahedral Boron Arsenide (B₁₂As₂) Epitaxial Layers on Silicon Carbide”, in “Boron and Boron Compounds – from Fundamentals to Applications”, Edgar, J.H., Kuball, M. and Dudley, M. (Eds.), Mater. Res. Soc. Symp. Proc., 1307E, Warrendale, PA.

Gong, Y., Bakalova, S., **Zhang, Y.**, Dudley, M., Zhang, Y., Edgar, J.H. and Kuball, M.; “Electrical Properties of B₁₂As₂/SiC Heterojunction Diodes and their Dependence on Microstructure”, to appear in “Boron and Boron Compounds – from Fundamentals to Applications”, Edgar, J.H., Kuball, M. and Dudley, M. (Eds.), Mater. Res. Soc. Symp. Proc., 1307E, Warrendale, PA.

Bakalova, S., Gong, Y., C. Cobet, N. Esser, **Zhang, Y** Edgar, J.H., Zhang, Y., Dudley, M. and Kuball, M., “Anisotropic Dielectric Response of Epitaxial B₁₂As₂ Films”, to appear in “Boron and Boron Compounds – from Fundamentals to Applications”, Edgar, J.H., Kuball, M. and Dudley, M. (Eds.), Mater. Res. Soc. Symp. Proc., 1307E, Warrendale, PA.

MATHEMATICS

DEPARTMENT CHAIR: LEON TAKHTAJAN
GRADUATE PROGRAM DIRECTOR: (Ph.D.) CLAUDE LEBRUN
(M.A.) DAVID EBIN
(M.A.) OLEG VIRO

❖ Singly Authored Publications

Di Cerbo, Luca Fabrizio. (2010). [Finite volume complex hyperbolic surfaces, their toroidal compactifications, and geometric applications.](#) *The arXiv:1101.4263v1.*

Popa, Alexandra. (2011). [The genus one Gromov-Witten invariants of Calabi-Yau complete intersections.](#) *(Accepted for publication).* *Transactions of the American Mathematical Society.*

Tian, Zhiyu. (2011). [Weak approximation for isotrivial families.](#) *The arXiv:1007.3534v2 [math.AG].*

Tian, Zhiyu. (2011). [Symplectic geometry of rationally connected threefolds.](#) *The arXiv:1006.2486v1[math.AG]* [Submitted at Duke Mathematical Journal].

❖ Jointly Authored Publications

Popa, A. & Zinger, A. (2011). [On mirror formulas in open and closed Gromov-Witten theory.](#) *The arXiv:1010.1946v1 [math.AG].*

Wright, Evan P. (2011). [Quotients of gravitational instantons.](#) *Annals of Global Analysis and Geometry,* (35): 267-275.

❖ Abstracts, Conferences/Colloquia, Invited Talks, Presentations

Basu, Somnath. (2011). Transversal string topology and invariants of Manifolds [Session] *Union College Mathematics Conference, Schenectady, NY.*

Basu, Somnath. (2011). [Transversal string topology and invariants of manifolds \[Session\]](#) *AMS Sectional Meeting, Worcester, MA.*

Basu, Somnath. (2011). Transversal string topology and diffeomorphism invariants [Session] *FRG-CHERN-SIMONS Workshop, University of California, Berkeley, CA.*

Di Cerbo, Luca Fabrizio. (2011). Finite volume complex hyperbolic surfaces, their toroidal compactifications, and geometric applications. [Seminar] *Geometry-Topology seminar, University of Pennsylvania, Philadelphia, PA.*

Di Cerbo, Luca Fabrizio. (2010). Finite volume complex hyperbolic surfaces and Seiberg-Witten equations. [Conference]. *Progressi Recenti in Geometria Reale e Complessa, Levico Terme. Trento, Italy.*

Di Cerbo, Luca Fabrizio. (2010). Seiberg-Witten equations on Finite volume Kahler surfaces and obstructions to the existence of cuspidal Einstein metrics, *Universita' di Roma "La Sapienz,"* Rome, Italy.

Di Cerbo, Luca Fabrizio. (2010). Seiberg-witten equations on surfaces of general type, *Universita' di Roma "La Sapienza,"* Rome, Italy.

Disconzi, Marcelo. (2011). [A compactness theorem for the Yamabe problem on manifolds with boundary](#) [Short Talk] *Barrett Memorial Lectures in Mathematical Relativity*, University of Tennessee, Knoxville, TN.

Popa, Alexandra, Zinger, A. (2011). [On mirror formulas in open and closed Gromov-Witten theory.](#) [Talk] *Columbia Symplectic Geometry, Gauge Theory, and Categorification Seminar.* New York, NY.

DaTian, Zhiyu. (2011). Symplectic deformation invariance of rationally connected 3-folds *Algebraic Geometry Seminar, Princeton University,* Princeton, NJ.

Tian, Zhiyu. (2010). Geometry and Physics Seminar, *University of Michigan,* Ann Arbor, MI.

Tian, Zhiyu. (2010). Oct. 26, Algebraic geometry seminar: Symplectic geometry and rationally connected varieties. *Algebraic Geometry Seminar Rice University,* Houston, TX.

❖ **Post-Doctorates Obtained and Professional Appointments**

Di Cerbo, Luca Fabrizio. (2011). 3-year Simons Post-Doctoral Fellowship by Duke University.

Tian, Zhiyu. (2011). Appointed Olga Taussky and John Todd Instructor in Mathematics at California Institute of Technology.

MECHANICAL ENGINEERING

DEPARTMENT CHAIR: FU-PEN CHIANG
GRADUATE PROGRAM DIRECTOR: ROBERT KUKTA

❖ Grants, Fellowships, and Awards

Zuo, Lei, Brindak, Zachary & Tang, Xiudong. (2011). [R&D 100 Award](#).

Tang, Xiudong and Zuo, Lei. (2011). Best Technology Development of Energy Harvesting, *IDTechEx*, Cambridge, MA.

❖ Jointly Authored Publications

Darvishi, Samira and Cubaud, Thomas. (2011). [Lubrication of highly viscous core-annular flows in microfluidic chambers](#), *Journal of Fluids Engineering*, (113): 031203-6.

Cubaud, Thomas, Jose, Bibin M., and Darvishi, Samira. (2011). [Folded micro-threads: role of viscosity and interfacial tension](#), *Physics of Fluids*, (23): 042002.

Bhagavat, S., Liberato, J. C., Chung, C., Kao, I. (2010). [Effects of mixed abrasive grits in slurries on free abrasive machining \(FAM\) processes](#), *International Journal of Machine Tools & Manufacture*, (50): 843-847.

Chung, C. and Kao, I. (2011). [Modeling of axially moving wire with damping: Eigenfunctions, orthogonality and applications in slurry wiresaws](#). *Journal of Sound and Vibration*, (330): 2947-2963.

Tsai, C., Nishiyama, J., Kao, I., Higashimori, M. and Kaneko, M. (2010). [Study of the relationship between the strain and strain rate for viscoelastic contact interface in robotic grasping](#), *IEEE International Conference on Intelligent Robots and Systems (IROS)*, 592-597, Taipei, Taiwan.

Nishiyama, J., Tsai, C., Quigley, M., Kao, I., Shibata, A., Higashimori, M. and Kaneko, M. (2011). [An experimental study of biologically inspired artificial skin sensor under static loading and dynamic stimuli](#). *IEEE International Conference on Robotics and Automation (ICRA)*, 1778-1783.

Ramierz-Alpizar, I. G., Higashimori, M., Kaneko, M., Tsai, C. and Kao, I. (2011). [Nonprehensile dynamic manipulation of a sheet-like viscoelastic object](#). *IEEE International Conference on Robotics and Automation (ICRA)*, 5103-5108.

Tsai, C., Kao, I., Shibata, A., Yoshimoto, K., Higashimori, M. and Kaneko, M. (2010). [Study of creep response of viscoelastic contact interface under force control](#). *Experimental IEEE International Conference on Intelligent Robots and Systems (IROS)*, 4275-4280.

❖ Abstracts, Conferences/Colloquia, Invited Talks, Presentations

Chung, C. (2011). Wafer manufacturing: Challenges and advances. *Invited Talk in National Chung Hsing University*, Taichung, Taiwan.

Jose, Bibin M., and Cubaud, Thomas. (2010). Arrangement of high-viscosity droplets in diverging/converging microchannels, *63rd Annual Meeting of the American Physical Society-Division of Fluid Dynamics*, Long Beach, CA.

Darvishi, Samira, and Cubaud, Thomas. (2010). Capillary threads and droplet-decorated streams in microchannels, *63rd Annual Meeting of the American Physical Society- Division of Fluid Dynamics*, Long Beach, CA.

Penamalli, Gopinath Reddy and Zuo, Lei. (2010). Analysis of train induced elastic waves in rail and the feasibility for damage detection. *NDE/NDT for Highways and Bridges: Structural Materials Technology (SMT)*. New York, NY.

Zhou, W **Gopinath Reddy, Penamalli** and Zuo, L. (2011). Multi-mode vibration energy harvester and tuned mass damper using double-beam structure. *ASME International Mechanical Engineering Congress and Exposition (IMECE)*. Denver, CO.

Tang, Xiudong, Zuo, L., Lin, T. and Zhang, P. (2011). Improved design of linear electromagnetic transducers for large-scale vibration energy harvesting, *Smart Structures and Materials: Proceedings of SPIE*.

Tang, Xiudong and Zuo, Lei. (2011). Simulation and Experiment Validation of Simultaneous Vibration Control and Energy Harvesting from Buildings via Tuned Mass Dampers" (invited paper), *Proceeding of America Control Conference*.

Tang, Xiudong and Zuo, Lei. (2011). Enhanced Vibration Energy Harvesting using Dual-Mass Systems, *2011 ASME Design Engineering Technical Conferences*, Washington DC.

Xu, T.B., Kang, J.H., Siochi, E.J., Zuo, L., Zhou, W., **Tang, Xiudong**, Jiang, X. (2011). A Piezoelectric Ceramic Multilayer Stack for Energy Harvesting under Dynamic Forces", *2011 ASME Design Engineering Technical Conferences*.

❖ **Post-Doctorates Obtained and Professional Appointments**

Chung, C. (2010). Postdoctoral Research Fellow, Department of Mechanical engineering, *National Chiao Tung University*, Hsinchu, Taiwan.

MOLECULAR AND CELLULAR BIOLOGY

DEPARTMENT CHAIR: ROBERT HALTIWANGER
GRADUATE PROGRAM DIRECTOR: ROLF STERNGLANZ

❖ Jointly Authored Publications

- Akgul G**, Wollmuth, L. (2010). [Expression pattern of membrane-associated guanylate kinases in interneurons of the visual cortex](#). *The Journal of Comparative Neurology*, 518(24): 4842-54.
- Pavlaki, M., Zucker, S., Dufour, A., **Calabrese, N.**, Bahou, W., and Cao, J. (2010). [Furin functions as a nonproteolytic chaperone for matrix metalloproteinase-28: MMP-28 propeptide sequence requirement](#). *Biochemistry Research International*, DOI:10.1155/2011/630319.
- Noah CE, Malik M, Bublitz DC, **Camenares D**, Sellati TJ, Benach JL, Furie MB. (2010). [GroEL and lipopolysaccharide from Francisella tularensis live vaccine strain synergistically activate human macrophages](#). *Infect Immun*, 78(4):1797-806. Epub 2010 Feb 1. PubMed PMID: 20123721; PubMed Central PMCID: PMC2849404.
- Callender, T.** and N. M. Hollingsworth. (2010). [Mek1 suppression of meiotic double strand break repair is specific to sister chromatids, chromosome autonomous and independent of REC8 cohesin complexes.](#), *Genetics*, (2): 185:1-12.
- Clower CV*, **Chatterjee D***, Wang Z, Cantley LC, Vander Heiden MG, Krainer AR. (2010). [The alternative splicing repressors hnRNP A1/A2 and PTB influence pyruvate kinase isoform expression and cell metabolism](#). *PNAS*; 107:1894-1899.
- Pan Ji-An, Ullman Erica, **Dou Z**, Zong Wei-Xing. (2011). [Inhibition of protein degradation induces apoptosis through an LC3-mediated activation of caspase-8 at intracellular membranes](#). *Molecular and Cellular Biology*, (15):3158-70.
- Dou Z**, Pan Ji-An, Lin Richard, Zong Wei-Xing. (2011). [The beta identity of class I PtdIns3K: A positive role of p110 \$\beta\$ in autophagy revealed](#), *Autophagy*, 7(2):246-7.
- Dou Z**, Chattopadhyay Mohar, Pan Ji-An, Guerriero Jennifer, Jiang Ya-Ping, Ballou Lisa, Yue Zhenyu, Lin Richard, Zong Wei-Xing. (2010). [The Class IA phosphatidylinositol 3-kinase p110 \$\beta\$ subunit is a positive regulator of autophagy](#), *Journal of Cell Biology* 15;191(4):827-43.
- Hornak V, Ahuja S, Eilers M, **Goncalves, J. A** Sheves M, Reeves PJ, Smith SO. (2010). [Light activation of rhodopsin: insights from molecular dynamics simulations guided by solid-state NMR distance restraints](#), *Journal of Molecular Biology*. 396(3):510-27.
- Dou Z, Chattopadhyay M, Pan JA, **Guerriero JL**, Jiang YP, Ballou LM, Yue Z, Lin RZ, Zong WX. (2010). [The class IA phosphatidylinositol 3-kinase p110-beta subunit is a positive regulator of autophagy](#), *Journal of Cell Biology*. 15;191(4):827-43. PubMed PMID: 21059846.
- Penzo, M., Molteni, R., Suda, T., Samaniego, S., Raucchi, A., **Habieli, D.M.**, Miller, F., Jiang, H., Li J., Pardi, R., Palumbo, R., Olivotto, E., Kew, R.R., Bianchi, M.E., and Marcu, K.B. (2010). [HMGB1 chemotactic responses differentially depend on IKK \$\alpha\$ and IKK \$\beta\$ to drive two NF- \$\kappa\$ B pathways](#). *Journal of Immunology*, (184): 4497-509.
- Zhang, J., **D.M. Habiel**, M. Ramadass and R.R. Kew. (2010). [Identification of two distinct cell binding sequences in the vitamin D binding protein](#). *Biochimica et Biophysica Acta*, (1803):623-629. PMID:20211661.

- Hui-Ju, Y.**, and Neiman, A.M. (2010). [A guanine nucleotide exchange factor is a component of the meiotic spindle pole body](#). *Schizosaccharomyces pombe. Molecular Biology of the Cell*, (21): 1272-1281.
- Jadali A** Ghazizadeh S. (2010). [Protein kinase D is implicated in the reversible commitment to differentiation in primary cultures of mouse keratinocytes](#). *Journal of Biological Chemistry* 23;285(30):23387-97. Epub 2010 May 12. PubMed PMID: 20463010;PubMed Central PMCID: PMC2906330.
- Jadali, A** and Ghazizadeh, S. (2010). Calcium-induced epidermal differentiation is a reversible process regulated by PKD. *Annual meeting of the Society of Investigative Dermatology. Atlanta, Georgia*. Abstract published in *The Journal of Investigative Dermatology*, (130): S95.
- Jiang, P., **Jahan, N.**, Wimmer, E. (2010). Mechanisms of Pathogenesis of Enteroviruses and Strategies to Mitigate Enteroviral Virulence. In D. Raghunath (Ed.), *Mechanisms of Microbial Pathogenesis*, (41-76). India: Macmillan Publishers India Ltd.
- Kok F. O.**, Shepherd I. T. and Sirotkin H. I. (2010). [Churchill and Sip1a repress fibroblast growth factor signaling during zebrafish somitogenesis](#). *Developmental Dynamics*, (239): 548-58.
- Liao, MC.**, Van Nostrand WE. (2010). [Degradation of Soluble and Fibrillar Amyloid \$\beta\$ -Protein by matrix metalloproteinase \(MT1-MMP\)](#), *Biochemistry*, (49): 1127-113.
- Lighthouse, J.K.**, Zhang, L., Hsieh, J.C., Rosenquist, T., and Holdener, B.C. (2010). [MESD is essential for apical localization of megalin/LRP2 in the visceral endoderm](#), *Dev Dyn. Epub ahead of print*, (3): 566-88.
- Lin, G.**, Aranda, V., Muthuswamy, S.K., Tonks, N.K. (2011). [Identification of PTPN23 as a novel regulator of cell invasion in mammary epithelial cells from a loss-of-function screen of the "PTP-ome."](#) *Genes & Development*, (25):1412-1425.
- Lo, H.C.** and N. M. Hollingsworth. (2011). [Using the semi-synthetic epitope system to identify direct substrates of the meiosis-specific budding yeast kinase, Mek1](#). *Methods of Molecular Biology*, (745): 135-149.
- Gorbunova EE, Gavrilovskaya IN, **Pepini T**, Mackow ER. (2011). [VEGFR2 and Src kinase inhibitors suppress ANDV induced endothelial cell permeability](#). *Journal of Virology*, (85): 2296-303.
- Matthys, V. Gorbunova, EE. Gavrilovskaya, IN, **Pepini T**. and Mackow. ER (2011). [The C-terminal 42 residues of the TULV Gn protein regulate interferon induction](#). *Journal of Virology*, (85): 4752-60.
- Pepini, T.**, Gorbunova, EE., Gavrilovskaya, IN., Mackow, JE, Mackow, ER (2010). [Andes virus regulation of cellular MicroRNAs contributes to hantavirus induced endothelial cell permeability](#). *Journal of Virology*,(84): 11929-11936.
- Prieto-Echagüe, V.**, Gucwa, A., Craddock, B. P., Brown D. A. and Miller, W. T. (2010). [Cancer-associated mutations activate the nonreceptor tyrosine kinase Ack1](#). *Journal of Biological Chemistry*, 2;285(14):10605-15.
- Zhang, J., D.M. Habel, **M. Ramadass** and R.R. Kew. (2010). [Identification of two distinct cell binding sequences in the vitamin D binding protein](#). *Biochim Biophys Acta*, 1803:623-629. PMID:20211661.

Fernandez-Valdivia, R., Takeuchi, H., Samarghandi, A., Lopez, M., Leonardi, J., **Rana, N.A.**, Haltiwanger, R.S., and Jafar-Nejad, H. (2010). [Regulation of the mammalian Notch signaling by the protein O-glucosyltransferase rumi](#). *Glycobiology*, (20): 1456a.

Takeuchi, H., Taylor, P., Kakuda, S., **Rana, N.A.**, Handford, P.A., and Haltiwanger, R.S. (2010). Examining how O-Fucose and O-Glucose affect notch-ligand binding. *Glycobiology*, (20): 1484a.

Leonardi, J., Fernandez-Valdivia, R., **Rana, N.A.**, Li, Yi-Dong, Simcox, A., Haltiwanger, R.S., Jafar-Nejad, H. (2010). [O-Glucosylation of Multiple EGF Repeats of Notch by Rumi is Required for Optimal Notch Signaling](#). *Glycobiology*, (20): 1483a.

Rana, N.A., Nita-Lazar, A., Kakuda, S., and Haltiwanger, R.S. (2010). Analysis of O-Glucosylation on Mouse Notch1. *Glycobiology*. (20): 1467a.

Rana, N.A., Xu, M.L., Moss, H., Rab, A., Leonardi, J., Jafar-Nejad, H., and Haltiwanger, R.S. (2010). Fringe benefits: Analysis of O-glycosylation and fringe elongation on the extracellular domain of Drosophila Notch. *Glycobiology*. (20): 1486a.

San Luis, B, Sondgeroth B, Nassar N, Carpino N. (2011). [Sts-2 is a phosphatase that negatively regulates zeta-associated protein \(ZAP\)-70 and T cell receptor signaling pathways](#). *Journal of Biological Chemistry*. 286(18):15943-54.

Shang, Y; Nguyen, H. Wickstrom, L. Okur, A. Simmerling, C. (2011). [Improving the description of salt bridge strength and geometry in a Generalized Born model](#). *J Mol Graph Model*. 29 (5): 676-84.

Stawowczyk, M. Sarah Van Scoy, Prasanna K. Kumar, and Nancy C. Reich. (2011). [The interferon stimulated gene 54 promotes apoptosis](#). *Journal of Biological Chemistry*. (286):7257-66.

Hagn F, Klein C, Demmer O, Marchenko N, **Vaseva, A.**, Moll UM., Kessler H. (2010). [BclxL changes conformation upon binding to wild-type but not mutant p53 DNA binding domain](#). *J Biol Chem*. 285(5):3439-50.

Vasudevan, D., Majerus, E., and Haltiwanger, R.S. (2010). Impact of O-Fucosylation on the Folding and Secretion of Thrombospondin Type-1 Repeat Containing Proteins. *Glycobiology*. (20): 1502a.

❖ Abstracts, Conferences/Colloquia, Presentations, Symposia, Workshops

Dou Zhixun, Chattopadhyay Mohar, Lin Richard, and Zong Wei-Xing. (2011). The class IA PI3K p110 β subunit is a positive regulator of autophagy. PI 3-Kinase Signaling Pathways, *Keystone Symposia*, CO.

Evensen, Nikki., Kuscu, C., Zarrabi, K., Zucker, S., Cao, J. (2011). Characterization of cancer endoplasmic reticulum invasion gene (CERIG): A novel endoplasmic reticulum protein. *Vermont Academy*, Saxtons River, VT.

Evensen, Nikki, Li, J., Zucker, S., Cao, J. (2011). Development of a three dimensional invasion assay for high-throughput anti-cancer drug screening. Albany, NY.

Fagbemi, Adebunke. (2010). Multiple Domains for PCNA Interaction in XPG and their Effects on NER. *Structural Cell Biology of DNA Repair Machines*. Berkeley, CA.

- Habiél, David M** Glenda Trujillo, Jianhua Zhang, Richard R. Kew. (2010). Cofactor amplification of C5a/C5a des Arg chemotactic activity in physiological fluids. Presented at the XXIII International Complement Workshop, New York, NY. *Abstract published in Molecular Immunology* 47,2290.
- Karaayvaz, Mihriban.** (2011). [Expression of miR-205 is significantly associated with prognosis of endometrial cancer.](#) *Orange County Convention Center, Orlando, FL.*
- Karaayvaz, Mihriban.** (2011). [Prognostic significance of miR-215 in colon cancer.](#) *Orange County Convention Center, Orlando, FL.*
- Lin, Guang,** Aranda, V., Muthuswamy, S.K., Tonks, N.K. (2011). [Identification of PTPN23 as a novel regulator of cell invasion in mammary epithelial cells from a loss-of-function screen of the “PTP-ome.”](#) *The Biology of Cancer: Microenvironment, Metastasis & Therapeutics.* Cold Spring Harbor Laboratory, Cold Spring Harbor, NY. (talk).
- Ramadass, Mahalakshmi** , Richard R. Kew. (2010). Complement activation induced modification of the vitamin D binding protein. Presented at the XXIII International Complement Workshop, New York, N.Y. August 02, 2010. *Abstract published in Molecular Immunology.* 47:2286 (2010).
- Shang, Yi** (2011). ACS CCG Research Excellence award, \$1,150 and 1 year license of MOE software. Chemical Computing Group, Montreal, Canada.

MOLECULAR GENETICS AND MICROBIOLOGY

DEPARTMENT CHAIR: JORGE BENACH
GRADUATE PROGRAM DIRECTOR: JANET HEARING

❖ Jointly Authored Publications

- Bublitz, D.C.**, Noah, C.E., Benach, J.L., and Furie, M.B. (2010). [Francisella tularensis suppresses the proinflammatory response of endothelial cells via the endothelial protein C receptor.](#) *Journal of Immunology*, 185(2): 1124-1131.
- LaRocca, T.J., **Crowley, J.T.**, Cusack, B.J., Pathak, P., Benach, J., London, E., Garcia-Monco, J.C., and Benach, J.L. (2010). [Cholesterol lipids of *Borrelia burgdoferi* form lipid rafts and are required for the bactericidal activity of a complement-independent antibody.](#) *Cell Host and Microbe*, 8(4): 331-342.
- Karen, K.A.**, and Hearing, P. (2011). [Adenovirus core protein VII protects the viral genome from a DNA damage response at early times after infection.](#) *Journal of Virology*, 85(9): 4135-4142.
- Yount, J.S., Tsou, L.K., Dossa, P.D., **Kullas, A.L.**, van der Velden, A.W., and Hang, H.C. (2010). [Visible fluorescence detection of type III protein secretion from bacterial pathogens.](#) *Journal of the American Chemical Society*, 132(24): 8244-8245.
- Zheng, Y., **Lilo, S.**, Brodsky, I.E., Zhang, Y Medzhitov, R., Marcu, K.B., and Bliska, J.B. (2011). [A Yersinia effector with enhanced inhibitory activity on the NKkB pathway activates the NLRP3/ASC/caspase-1 inflammasome in macrophages.](#) *PLoS Pathogens*, 7(4):e1002026.
- Mulligan, E.A.**, Hatchwell, E., McCorkle, S.R., and Dunn, J.J. (2010). [Differential binding of *Escherichia coli* McrA protein to DNA sequences that contain the dinucleotide m5CpG.](#) *Nucleic Acids Research*, 38(6):1997-2005.
- Navin, N.**, Kendall, J., Troge, J., Andrews, P., Rodgers, L., McIndoo, J., Stepansky, A., Levy, D., Esposito, D., Muthuswamy, L., Krasnitz, A., McCombie, W.R., Hicks, J., and Wigler, M. (2011). [Tumor evolution inferred by single-cell sequencing.](#) *Nature*, 472(7341): 90-94.
- Gunasekera, A., Alvarez, F.J., Douglas, L.M., Wang, H.X., **Rosebrock, A.P.**, and Konopka, J.B. (2010). [Identification of GIG1, a GlcNAc-induced gene in *C. albicans* needed for normal sensitivity to the chitin synthase inhibitor nikkomycin z.](#) *Eucaryotic Cell*, 9(10): 1476-1483.
- Felek, S., Jeong, J.J., **Runco, L.M.**, Murray, S., Thanassi, D.G., and Krukoni, E.S. (2011). [Contributions of chaperone/usher systems to cell binding, biofilm formation and *Yersinia pestis* virulence.](#) *Microbiology*, 157(3): 805-818.
- Liu, Y., **Wang, C** Mueller, S., Paul, A.V., Wimmer, E., and Jiang, P. (2010). [Direct interaction between two viral proteins, the nonstructural protein 2CATPase and the capsid protein VP3, is required for enterovirus morphogenesis.](#) *PLoS Pathogens*, 6(8): e1001066.
- Zeituni, A.E.**, Carrion, J., and Cutler, C.W. (2010). [*Porphyromonas gingivalis*-dendritic cell interactions: consequences for coronary heart disease.](#) *Journal of Oral Microbiology*, (2): 5782-5789.

Zeituni, A.E., McCaig, W., Scisci, E., Thanassi, D.G., and Cutler, C.W. (2010). [The native 67 kDa minor fimbriae of *Porphyromonas gingivalis*: a novel glycoprotein with DC-SIGN-targeting motifs.](#) *Journal of Bacteriology*, 192(16): 4103-4110.

Zheng, Y., Lilo, S., Brodsky, I.E., Zhang, Y Medzhitov, R., Marcu, K.B., and Bliska, J.B. (2011). [A *Yersinia* effector with enhanced inhibitory activity on the NKkB pathway activates the NLRP3/ASC/caspase-1 inflammasome in macrophages.](#) *PLoS Pathogens*, 7(4):e1002026.

❖ **Abstracts, Conferences/Colloquia, Invited Talks, Presentations**

Bublitz, D.C. (2011). Characterizing How *Francisella tularensis* Suppresses the Proinflammatory Response of Endothelial Cells. *Gordon Research Conference on Microbial Adhesion and Signal Transduction*. Newport, RI.

Navin, N. (2010). Tumor Progression Revealed by Sequencing 100 Single Cells in a Heterogeneous Breast Carcinoma. *James Watson Cancer Symposium*. Suzhuo, China.

Zheng, Y. (2010). The Effector YopJ^{KIM} Activates Caspase-1 and Induces Caspase-1 Independent Necrotic Death in *Yersinia*-infected Macrophages. *Gordon Research Conference on Cell Death*. Newport, RI.

MUSIC

DEPARTMENT CHAIR: JUDITH LOCHEAD
GRADUATE PROGRAM DIRECTOR: PERRY GOLDSTEIN

❖ Grants, Fellowships, Awards, and Prizes

Ho, Jocelyn. (2010). Piano. First Prize and Special Prize for Music of Haydn, Mozart or Beethoven, \$20,000. *Australian National Piano Award*, Shepparton, Victoria, Australia.

Gerraughty, J. M. (2010). Honorable Mention. *American Composers Forum Finale National Composition Contest*, St. Paul, MN.

Kallay, Agnes, Starzec, Anna, Shin, Jihoon. (2011). Flute Trio. Finals, *2011 Coleman Chamber Music Competition*, Pasadena, CA.

Powell, Jessica. (2011). Outreach Grant, \$500. *Early Music America*, Seattle, WA.

Sartori, Enrico. (2010). First Prize and Grand Prize Winner. *Alexander and Buono International Flute Competition*, New York, NY.

Starzec, Anna. (2011). Fellowship, 2011 AMF Institute Fellowship Program, \$ 3,995.00. *Atlantic Music Festival*, Waterville, ME.

❖ Singly Authored Publications/Research Reports/Reviews

Holland, Katherine. (2011). Bassoon low notes. *The Instrumentalist*, (65): 35.

Ho, Jocelyn. (2011). From 2D to 3D: Using geometry and group theory to model motivic structure in musical composition. *Mathematics and Computation in Music: Third International Conference, MCM 2011 Proceedings*, 342-5. Poster at conference

❖ Abstracts, Conferences/Colloquia, Presentations, Symposiums, Workshops

Blake, David. (2011). Putting Madrigal Performance in Perspective: Wert's 'Vezzosi augelli' and the concerto delle donne. *Early Modern Women in the Arts Symposium*, West Chester University, West Chester, PA.

Hartford, Kassandra. (2010). How *Danças Características Africanas* became *Métis*. *American Musicological Society Annual Meeting*, Indianapolis, IN.

Ho, Jocelyn. (2010). From 2D to 3D: Conceptualising Musical Structure as Three-Dimensional Objects through Mathematics. *International Conference on the Image*, University of California- Los Angeles, Los Angeles, CA.

Ho, Jocelyn. (2011). From 2D to 3D: Using Geometry and Group Theory to Model Motivic Structure in Musical Composition. *The 3rd International Conference on Mathematics and Computation in Music*, Institute for Research and Coordination of Acoustics and Music (IRCAM), Paris, France.

Ho, Jocelyn. (2010). From 2D to 3D: Using Mathematics to Conceptualise Musical Structure as Three-Dimensional Objects. *Summer Workshop on Pattern, Music and Mathematics (The University of Edinburgh and Queen's University)*, Herstmonceux Castle, East Sussex, UK.

Sartori, Enrico. (2011). Comparison of the Two Editions of Berio's Sequenza I for Solo Flute. *2011 Symposium "traditions / progressions / transgressions,"* University of Toronto, Toronto, ON.

Tochka, Nicholas. (2010). A Return to Normalcy (amidst clans and degenerates): The Postsocialist Ethics of Capitalist Popular Music Production in Tirana, Albania. *Society for Ethnomusicology Annual Conference*, Los Angeles, CA.

❖ **Post-Doctorates Obtained and Professional Appointments**

Cencer, Bethany. (2010). Advertising Manager. *Early Keyboard Journal*. Published by the Southeastern and Midwestern Early Keyboard Societies.

Sartori, Enrico. (2010). Flute. *Alexander and Buono International, Inc. Artist Management Company*, New York, NY.

Pitnarry Shin. (2010). Cello. Substitute Cellist, *New York Philharmonic Orchestra*, New York, NY.

❖ **Exhibitions/Performances**

Augustyn, Kinga. (2010). Violin. *Hungarian Music Recital*. Hungarian Embassy, Washington, DC.

Augustyn, Kinga. (2011). Violin. Violin Recital. *Bargemusic*, Brooklyn, NY.

Augustyn, Kinga. (2011). Violin. Milton Babbitt Memorial Concert (chamber music). *Elebash Recital Hall, Graduate Center, CUNY*, New York, NY.

Augustyn, Kinga. (2011). Violin. Soloist, Brahms Violin Concerto with Empire State Sinfonia. *Church of St. Paul & St. Andrew*, New York, NY.

Cencer, Bethany. (2011). Harpsichord. *Sprezzatura* Baroque ensemble concert. *Baroque at Bellefontaine*, St. Louis, MO.

Cencer, Bethany. (2011). Harpsichord. *Sprezzatura* Baroque ensemble concert. Conception Abbey, Conception, MO.

Cencer, Bethany. (2011). Harpsichord. *Sprezzatura* Baroque ensemble concert. *Southeast Missouri State University Sundays at Three Series*. Cape Girardeau, MO.

Cencer, Bethany. (2011). Harpsichord. Masterclasses and Solo Performance, "Music for the Sun King," *Brandywine Baroque Workshop on antique harpsichords*. Brandywine region, DE.

Gerraughty, J. M. (2010). Composer. *Say Nothing* for Fourteen Saxophones, commissioned by Carrie Koffman (Professor of Saxophone, The Hartt School). *Performance at the North American Saxophone Alliance Region 8 Conference*, United States Military Academy, West Point, NY.

Gerraughty, J. M. (2010). Composer. *Trio* for Violin, Horn, and Piano, commissioned by Lydia Van Dreel (horn, Professor of Horn, University of Oregon). *World Premiere at the 43rd International Horn Society Symposium*, San Francisco State University, San Francisco, CA.

Ho, Jocelyn. (2011). Piano and composer. *Torus. Tutti New Music Festival*. Denison University, Ohio.

Ho, Jocelyn. (2010). Piano. Australian National Piano Association Winner's recital. *Melbourne Recital Centre*, Melbourne, Australia.

Kallay Agnes, Shin Jihoon, Starzec Anna. (2011). Flute Trio. Recital of Music by Martinu, Weber, and Piazzolla. *Hungarian Cultural Center*, Los Angeles, CA.

Mindlina, Elena. (2010). Mezzo-Soprano. Appearance with the Vocal Ensemble “Piques Dames.” *Yamaha Hall*, New York, NY.

Mindlina, Elena. (2011). Principal Role, Feodor, Boris Godunov. *Utah Festival Opera and Musical Theatre*, Logan, UT.

Mindlina, Elena. (2011). Festival Artist, Mezzo- Soprano, Dancer. *South Pacific, Merry Widow, Don Giovanni.* *Utah Festival Opera and Musical Theatre*, Logan, UT.

Patton, Christa. (2011). Harp. *Performances with Piffaro.* Philadelphia, PA and Wilmington, DE.

Petrides, Iannis. (2010). Guitar. Performance at the Manolis Kalomoiris Music Festival on Samos, Greece.

Powell, Jessica. (2011). Viola da gamba. Solo appearance with the Atlanta Baroque Orchestra and the University of Georgia Chorus. University of Georgia Performing Arts Center, Athens, GA and the Monastery of the Holy Spirit, Conyers, GA.

Sartori, Enrico. (2010). Flute. Solo appearance with the Wayne Chamber Orchestra. Ramsey Theatre, Wayne, NE.

Sartori, Enrico. (2011). Flute. *ABC Gala Concert.* Carnegie Hall’s Weill Recital Hall, New York, NY.

Sartori, Enrico. (2011). Guest Conductor, Hudson Symphony Orchestra. Program included two world premieres: *The Halcyon Days of the Beast* by Louise Fristensky and *Three Short Song-like Concerti for Chamber strings and piano* by Kevin Cummines. St. Peter’s College, Jersey City, NJ.

Shane, Michael, Preimesberger, Lisa. (2011). Clarinet/basset horn. *Blur* for clarinet and basset horn by Lansing McLoskey. Closing performance at the 2011 American Composers Alliance Summer Festival, Symphony Space, New York, NY.

Shane, Michael. (2011). Clarinet. Performance with the Blossom Festival Band, Blossom Music Center, Cuyahoga Falls, OH.

Song, HyunJu. (2010). Soprano. Guest artist, Recital. Indiana University, Bloomington, IN.

Wohn, Dawn. (2010). Violin. Soloist, Tchaikovsky Violin Concerto, with the Daejon Philharmonic. Daejon Concert Hall, Daejon, Republic of Korea.

❖ Recordings

Augustyn, Kinga. (2010). Violin. *Michael White Piano Works* [CD]. Michael White *Quartet for Piano and Strings*: Albany Records, Albany NY.

Ho, Jocelyn. (2011). Piano. *Luminous Sounds* [CD]. Master Performers, Brisbane, Australia.

Shane, Michael. (2010). Clarinet. *Never the Less* [CD]. New York, NY: Independent release by Ash Hancock.

NEUROSCIENCE

DEPARTMENT CHAIR: LORNA ROLE
GRADUATE PROGRAM DIRECTOR: JOEL LEVINE

❖ Grants, Fellowships, and Awards

Catherine Salussolia. (2001-2013). The functional significance of conformational states in Glutamatergic signaling. *National Institute of Neurological Disorders and Stroke*. Award Number: F31NS073382. (Award).

❖ Jointly Authored Publications

Fu, Y., Huang, Z.J. (2010). [Differential dynamics and activity-dependent regulation of \$\alpha\$ - and \$\beta\$ -neurexins at developing GABAergic synapses](#). *PNAS*, 52(107):22699-22704.

DeWald LE, **Rodriguez J** Levine JM. (2011). [The RE1-binding protein REST regulates oligodendrocyte development](#). *Journal of Neuroscience*, (31):3470-3483.

Rosati B, **Yan Q.**, Lee MS, Liou SR, Ingalls B, Foell JD, Kamp TJ, McKinnon D. (2011). [Robust L-Type calcium current expression following heterozygous knockout of the Cav1.2 gene in adult mouse heart](#). *Journal of Physiology*, (589):3275-88.

Talukder I Wollmuth LP. (2011). [Local constraints in either the GluN1 or GluN2 subunit equally impair NMDA receptor pore opening](#). *J Gen Physiol.*, 138(2):179.

Zanazzi G, Matthews G. (2010). [Enrichment and differential targeting of complexins 3 and 4 in ribbon-containing sensory neurons during zebrafish development](#). *Neural Development*, (5):24.

PHARMACOLOGICAL SCIENCES

DEPARTMENT CHAIR: MICHAEL A FROHMAN
GRADUATE PROGRAM DIRECTOR: STELLA E. TSIRKA

❖ Grants, Fellowships, and Awards

Escobar, Luisa. (2010-2013). Fulbright Scholar.

Murray, Onika. (2011). Minority in Cancer Research Award, \$1000. *American Association for Cancer Research*, Philadelphia, PA.

Quinones, Jason. (2010-2015). Turner Fellowship *Stony Brook University*, Stony Brook, NY.

Torres, Luisa. (2011). The Graduate Research Fellowship Program. *National Science Foundation*. Arlington, VA. (Honorable mention).

❖ Jointly Authored Publications

Cyge B, Fischer V, Takemaru K, Li FQ. (2011). [Generation and characterization of monoclonal antibodies against human chibby protein.](#) *Hybridoma (Larchmt)*, 30(2):163-8.

Galvin J, **Eyermann C** Colognato H. (2010). [Dystroglycan modulates the ability of insulin-like growth factor-1 to promote oligodendrocyte differentiation.](#) *Journal of Neuroscience Research*, 88(15): 3295-307.

Yakubovskaya E, Mejia E, Byrnes J, **Hambardjjeva E** Garcia-Diaz M. (2010). [Helix unwinding and base flipping enable human MTERF1 to terminate mitochondrial transcription.](#) *Cell*, 141(6):982-93.

Li D, Marchenko ND, Schulz R, **Fischer V** Velasco-Hernandez T, Talos F, Moll UM. (2011). [Functional inactivation of Endogenous MDM2 and CHIP by HSP90 causes aberrant stabilization of mutant p53 in human cancer cells.](#) *Molecular Cancer Research*, 9(5):577-88.

Louie E, Nik S, Chen JS, Schmidt M, Song B, Pacson C, Chen XF, Park S, Ju J, Chen EI. (2010). [Identification of a stem-like cell population by exposing metastatic breast cancer cell lines to repetitive cycles of hypoxia and reoxygenation.](#) *Breast Cancer Research*, 12(6):R94.

Love D Li FQ, Burke MC, **Cyge B,** Ohmitsu M, Cabello J, Larson JE, Brody SL, Cohen JC, Takemaru K. (2010). [Altered lung morphogenesis, epithelial cell differentiation and mechanics in mice deficient in the Wnt/ \$\beta\$ -catenin antagonist Chibby.](#) *PLoS One*, 5(10):e13600.

Choi UB, **McCann JJ,** Weninger KR, Bowen ME. (2011). [Beyond the random coil: Stochastic conformational switching in intrinsically disordered proteins.](#) *Structure*, 19(4):566-76.

McCann JJ, Choi UB, Zheng L, Weninger K, Bowen ME. (2010). [Optimizing methods to recover absolute FRET efficiency from immobilized single molecules.](#) *Biophysical Journal*, 99(3):961-70.

Quinones JL, Carpi A. (2011). [An investigation of the kinetic processes influencing mercury emissions from sand and soil samples of varying thickness.](#) *Journal of Environmental Quality*, 40(2):647-52.

Jeon SJ, **Rhee SY,** Seo JE, Bak HR, Lee SH, Ryu JH, Cheong JH, Shin CY, Kim GH, Lee YS, Ko KH. (2011). [Oroxylin A increases BDNF production by activation of MAPK-CREB pathway in rat primary cortical neuronal culture.](#) *Neuroscience Research*, 69(3):214-22.

- Yao Y Tsirka SE.** (2011). Mouse MCP1 [C-terminus inhibits human MCP1-induced chemotaxis and BBB compromise](#). *Journal of Neurochemistry*, 118(2):215-23.
- Yao Y Tsirka SE.** (2011). [Truncation of monocyte chemoattractant protein 1 by plasmin promotes blood-brain barrier disruption](#). *Journal of Cell Science*, 124(9):1486-95.
- Yao Y Tsirka SE.** (2010). [The C terminus of mouse monocyte chemoattractant protein 1 \(MCP1\) mediates MCP1 dimerization while blocking its chemotactic potency](#). *Journal of Biological Chemistry*, 285(41):31509-161.

❖ Abstracts, Conferences/Colloquia, Invited Talks, Presentations

- Hambardjjeva, Elena.** (2010). Bypass of 8-oxo-G lesions by DNA polymerase λ . *ASBMB Meeting*, Anaheim, CA.
- Leiton, Cindy V.** (2011). Are matrix metalloproteinases involved in oligodendrocyte development? [Poster presenter]. Celebrating Diversity and Academic Excellence Conference. Center for Inclusive Education, *Stony Brook University*, Stony Brook, NY.
- Leiton, Cindy V.** (2011). Are matrix metalloproteinases involved in oligodendrocyte development? [Poster presenter], STEM Diversity Summit. *Farmingdale State College*, Farmingdale, NY.
- Leiton, Cindy V.** (2010). Are matrix metalloproteinases involved in oligodendrocyte development? [Poster presenter], Department of Pharmacological Sciences, Annual Department Symposium. *Stony Brook University*, Stony Brook, NY.
- Leiton, Cindy V.** (2010). Glia in Health and Disease Meeting. *Cold Spring Harbor Laboratories*. [Attendee] Cold Spring Harbor, NY.
- Leiton, Cindy V.** (2011). Image competition first place winner, Department of Pharmacological Sciences, *Stony Brook University*, Stony Brook, NY.
- McCann, James.** (2011). Organization of PDZ domains in full-length PSD-95. *Biophysical Society 55th Annual Meeting*. Baltimore, MD.
- Murray, Onika.** (2010). The reduction of pancreatic cancer growth by Phosphosulindac. [Symposium]. *15th World Congress on Advances in Oncology & 13th International Symposium on Molecular Medicine*. Loutraki, Greece.
- Nakagawa, Francesca.** (2010). TRAF-4 is a positive effector of TGF- β signaling that affects neural crest and mesoderm induction [Conference]. *13th International Xenopus Conference*, Fairmont Chateau Lake Louise, Alberta, Canada.
- Quinones, Jason.** (2011). Understanding PDZ domain interactions of PSD-95 and nNOS using single molecule FRET techniques [Symposium]. *Stony Brook University's 1st Annual CDAE Symposium*. Stony Brook, NY.
- Yao, Yao.** (2010). Truncation of MCP1 by plasmin changes its biological activities. [Conference]. *Gordon Research Conference: Chemotactic Cytokine*. Lucca, Italy.

❖ Post-Doctorates Obtained and Professional Appointments

Abraham, Ari B. (2010). Third year medical student, *Stony Brook University School of Medicine*, Stony Brook, NY.

DeWald, Lisa Evans (2010). Toxicology Specialist, *American Forensic Toxicology Services, Inc.*, Huntington, NY 107922106.

Emmetsberger, Jaime. (2010). Postdoctoral fellow Dr Lorna Role, Dept of Neuroscience, *Stony Brook University Medical Center*, Stony Brook, NY.

Tzvetanova, Iva. (2010). Postdoctoral fellow, Dr Klaus Neve. Department of Molecular Biology, *Max Planck Institute for Experimental Medicine*, Göttingen, Germany .

Roach, Akua Bonsra. (2010). Regulatory specialist at *Technical Resource International (TRI)*. Bethesda, MD.

Huang, Huiyan (Winnie). (2010). Postdoctoral fellow, Dr. Anne Hart, Department of Neuroscience *Brown University Alpert Medical School*, Providence, RI.

Yeku, Oladapo O. (2010). Third year medical student, *Stony Brook University School of Medicine*, Stony Brook, NY.

Lee, Dianne EunJoo. (2010). Postdoctoral fellow, Dr. Graeme F. Mason, Department of Diagnostic Radiology *Yale University School of Medicine*, New Haven, CT.

Orelli, Barbara. (2010). Postdoctoral fellow, Dr Ken Olive *Herbert Irving Comprehensive Cancer Center* Herbert Irving Comprehensive Cancer Center, NY.

Guainazzi, Angelo. (2010). Project manager coordinator, *Helsinn Therapeutics (U.S.), Inc.*, Bridgewater, NJ.

Nguyen, Tom. (2011). Postdoctoral fellow, Dr Adan Aguirre, Pharmacological Sciences, SBU.

Yao, Yao. (2011). Postdoctoral fellow, Dr Sidney Strickland, Neurobiology and Genetics, Rockefeller University, NY.

PHILOSOPHY

DEPARTMENT CHAIR: ROBERT CREASE

GRADUATE PROGRAM CHAIR: (Ph.D.) ANNE O'BYRNE

(M.A.) EDUARDO MENDIETA

❖ Grants, Fellowships, and Awards

Diaz, Emiliano. (2011-2012). Max Kade Foundation Scholarship, \$13,500. *Max Kade Foundation, Inc.*, New York, NY.

Gallegos de Castillo, Lori. (2011). Ford Foundation Fellowship, \$20,000 per year for three years. *Ford Foundation*, Washington, DC.

Greene, Nathifa. (2011-2012). Max Kade Foundation Scholarship, \$13,500. *Max Kade Foundation, Inc.*, New York, NY.

Roth, Brandon. (2010-11). Turner Dissertation Fellowship, \$10,000. *Turner Foundation*, Stony Brook, NY.

Tillman, Rachel. (2011-12). Jacob K. Javits Fellowship, \$30,000. *U.S. Department of Education*, Washington, DC.

Tillman, Rachel. (2011). Vivien Hartog Memorial Award for Excellence in Graduate Student Teaching. *Stony Brook University Department of Women's and Gender Studies*, Stony Brook, NY.

Woolsey, Caitlin. (2011). Hilla Rebay Graduate Summer Intern, \$1000. *Guggenheim Museum*, New York, NY.

❖ Abstracts, Conferences/Colloquia, Invited Talks, Presentation

Bottenberg, Frances. (2010). Robots looking for love and the technology that will get them there. *Society for Phenomenology and the History of Science*, Montreal, Quebec, Canada.

Bottenberg, Frances. (2010). At the heart of logic: Emotion as a topic for critical thinking courses. *American Association of Philosophy Teachers*, Conway, SC.

Gallegos de Castillo, Lori. (2011). Illegal immigration in the United States: Defending the human rights approach. *Celebrating Diversity and Academic Excellence*, Stony Brook University, Stony Brook, NY.

Gallegos de Castillo, Lori. (2010). Rethinking egoism in the evaluation of Aristotle's Nicomachean ethics. *An International Conference on Ancient and Medieval Philosophy*, Fordham University, Lincoln Center, New York, NY.

Kirk, Greg. (2010). The institution of friendship as a second childhood. *Philosophy and Interpersonal Relations Conference*. University of Guelph, Canada.

Lee, Eunah. (2010). Emotions and obligations: The divergence between care ethics and Confucian ethics. *Long Island Philosophy Society, New York Institute of Technology*, Old Westbury, NY.

- Lee, Eunah.** (2010). Emotions and obligations: The divergence between care ethics and Confucian ethics. *The 9th Graduate Conference of University of New Mexico*, University of New Mexico, Albuquerque, NM.
- Lee, Eunah.** (2011). Disturbing prospect of Hegelian cosmopolitanism. *XXV Strategies of Critique, Graduate Conference in Social and Political Thought*, York University, Toronto, Canada.
- Sajber, Krisztina.** (2011). Incongruous encounters: Schizophrenia, intersubjectivity and transdisciplinary research. *New Practices of Philosophy: Taking Philosophy Beyond Disciplinary Bounds*, University of North Texas, Denton, TX.
- Susser, Daniel.** (2011). Wicked no more: On moral reform in Aristotle's ethics. *CUA Graduate Philosophy Conference*, Catholic University, Washington, DC.
- Susser, Daniel.** (2010). The violence of ambivalence: Gay marriage as civil right. *Radical Philosophy Association 9th Biennial Conference*, University of Oregon, Eugene, OR.
- Susser, Daniel.** (2010). From telephones to smellophones: Toward a hermeneutics of electronically mediated communication. *Society for Phenomenology and the Human Sciences Session at the 49th Annual Meeting of the Society for Phenomenology and Existential Philosophy*, McGill University, Montreal, Canada.
- Tillman, Rachel.** (2010). The Aristotelian foundations of Dewey's experience and education. Society for Ancient Greek Philosophy International Conference on Ancient and Medieval Philosophy. New York, NY.
- Woolsey, Caitlin.** (2011). Merleau-Ponty and Olafur Eliasson on the possibilities of lived space in art and museums. *De Philosophia Conference*, University of Ottawa, Ottawa, Ontario, Canada.
- Woolsey, Caitlin.** (2011). Response: *Remembrance, transformation, and art's redemptive capacity*. *Fourth Annual Philosophy and the Arts Conference*, SUNY Stony Brook, Manhattan Campus, New York, NY.
- Woolsey, Caitlin, Anglemire, Carlie, Hayes, Shannan.** (2011). Bergson, Celan, and the creative indetermination of language. *Society for Phenomenology and Existential Philosophy (SPEP)*, Philadelphia, PA.

❖ Translations

- Bottenberg, Frances.** (2010). 'Phenomenology': A reflection on the history of the term/'Phänomenologie': Eine begriffsgeschichtliche Reflexion (Schumann, Karl). Abingdon, UK: Routledge. (Original work published 1984).

❖ Post-Doctorates Obtained and Professional Appointments

- Arruda, Caroline.** (2011-12). Assistant Professor Tenure-Track, Philosophy, *University of Texas*, El Paso, TX.
- Heiner, Brady.** (2011-12). Assistant Professor Tenure-Track, Philosophy, *California State University*, Fullerton, CA.

Knies, Kenneth. (2011-12). Assistant Professor Tenure-Track, Philosophy, *Sacred Heart University*, Fairfield, CT.

McNamara, Sara. (2011-12). Visiting Assistant Professor, Philosophy, *Hofstra University*, Hempstead, NY.

PHYSICS AND ASTRONOMY

DEPARTMENT CHAIR: LASZLO MIHALY

GRADUATE PROGRAM DIRECTOR: JACOBUS VERBAARSCHOT

❖ Jointly Authored Publications

- Bannier, Benjamin** *et al.* [HADES Collaboration]. (2011). [pp and ππ intensity interferometry in collisions of Ar+KCl at 1.76A-GeV](#). *European Physics Journal A47*, 63.
- Bannier, Benjamin** *et al.* [HADES Collaboration]. (2011). [Hyperon production in Ar+KCl collisions at 1.76A GeV](#) *European Physics Journal A47*, 21 [arXiv:1010.1675 [nucl-ex]].
- Bannier, Benjamin** *et al.* [PHENIX Collaboration]. (2011). [Cross Section and Parity Violating Spin Asymmetries of \$W^\pm\$ Boson Production in Polarized p+p Collisions at \$\sqrt{s}=500\$ GeV](#). *Physical Review Letters* 106: 062001 [arXiv:1009.0505 [hep-ex]].
- Liu, X., **Berlijn, T.**, Yin, W.-G., Ku, W., Tselik, A., Kim, Y.-J., Gretarsson, H., Singh, Y., Gegenwart, P., Hill, J. P. (2011). [Long range magnetic ordering in Na₂IrO₃](#). *Physical Review B*, 83, 220403.
- Berlijn, T.**, Volja, D., Ku, W. (2011). [Can disorder alone destroy the eg' hole pockets of Na_{0.3}CoO₂? A Wannier Function Based First-Principles Method for Disordered Systems](#). *Physical Review Letters* 106, 077105.
- Herng, T. S., D.-C. Qi, **Berlijn, T.**, Yi, J. B., Yang, K. S., Dai, Y., Feng, Y. P., Santoso, I., Sánchez-Hanke, C., Gao, X. Y., Wee, A. T. S., Ku, W., Ding, J., Rusydi, A.. (2010). [Room-Temperature Ferromagnetism of Cu-Doped ZnO Films Probed by Soft X-Ray Magnetic Circular Dichroism](#). *Physical Review Letters*, 105 207201.
- Ku, W., **Berlijn, T.**, Lee, C.-C. (2010). [Unfolding First-Principles Band Structures](#). *Physical Review Letters* 104, 216401.
- D. Beznosko, J. Hignight, K. Jillie, G. Lopez, et al.** [T2K Collaboration]. (2011). [The T2K Experiment](#). doi: 10.1016/j.nima.2011.06.067, [arXiv:1106.1238 [physics.ins-det]].
- D. Beznosko, J. Hignight, K. Jillie, G. Lopez, et al.** [T2K Collaboration]. (2011). [Indication of Electron Neutrino Appearance from an Accelerator-produced Off-axis Muon Neutrino Beam](#). [arXiv:1106.2822 [physics.hep-ex]].
- Caputo, Regina** *et al.* [ATLAS Collaboration]. (2010). [Readiness of the ATLAS liquid argon calorimeter for LHC collisions](#). *European Physical Journal C70*, 723.
- Caputo, Regina** *et al.* [ATLAS Collaboration]. (2011). [Search for pair production of first or second generation leptoquarks in proton-proton collisions at \$\sqrt{s}=7\$ TeV using the ATLAS detector at the LHC](#). *Physical Review D* [arXiv:1104.4481 [hep-ex]].
- O. J. P. Eboli, **C. S. Fong**, J. Gonzalez-Fraile and M. C. Gonzalez-Garcia. (2011). [Determination of the Spin of New Resonances in Electroweak Gauge Boson Pair Production at the LHC](#). *Physical Review D* 83, 095014 [arXiv:1102.3429 [hep-ph]].
- C. S. Fong**, M. C. Gonzalez-Garcia and E. Nardi. (2011). [Early Universe effective theories: The Soft Leptogenesis and R-Genesis Cases](#). *Journal of Cosmology and Astroparticle Physics* 1102, 032 [arXiv:1012.1597 [hep-ph]].

- C. S. Fong**, M. C. Gonzalez-Garcia and J. Racker. (2011). [CP Violation from Scatterings with Gauge Bosons in Leptogenesis](#). *Physics Letters B* 697, 463 [arXiv:1010.2209 [hep-ph]].
- C. S. Fong**, M. C. Gonzalez-Garcia, E. Nardi and J. Racker. (2010). [Supersymmetric Leptogenesis](#). *Journal of Cosmology and Astroparticle Physics* 1012, 013 [arXiv:1009.0003 [hep-ph]].
- C. S. Fong**, M. C. Gonzalez-Garcia, E. Nardi and J. Racker. (2010). [Flavoured soft leptogenesis and natural values of the B term](#). *Journal of High Energy Physics* 1007, 001 [arXiv:1004.5125 [hep-ph]].
- C. S. Fong** and J. Racker. (2010). [On fast CP violating interactions in leptogenesis](#). *Journal of Cosmology and Astroparticle Physics* 1007, 001 [arXiv:1004.2546 [hep-ph]].
- B. Gadway**, D. Pertot, R. Reimann, and D. Schneble. (2010). [Superfluidity of Interacting Bosonic Mixtures in Optical Lattices](#). *Physical Review Letters* 105, 045303 [arXiv:1002.4015v2 [cond-mat.quant-gas]].
- Marija Kotur**, Thomas C. Weinacht, Congyi Zhou and Spiridoula Matsika. (2011). [Following Ultrafast Radiationless Relaxation Dynamics With Strong Field Dissociative Ionization: A Comparison Between Adenine, Uracil, and Cytosine](#). *IEEE Journal of Selected Topics in Quantum Electronics*, 99.
- Marija Kotur**, Thomas Weinacht, Congyi Zhou, Kurt A. Kistler and Spiridoula Matsika. (2011). [Distinguishing Between Relaxation Pathways by Combining Dissociative Ionization Pump Probe Spectroscopy and ab initio Calculations: A Case Study of Cytosine](#). *Journal of Chemical Physics* 134, 184309.
- Spiridoula Matsika, Congyi Zhou, **Marija Kotur**, Thomas Weinacht. (2011). [Combining dissociative ionization pump probe spectroscopy and ab initio calculations to interpret dynamics and control through conical intersection](#). *Faraday Discussions*, DOI: 10.1039/c000000x.
- D. Jain**, W. Siegel. (2011). [On Projective Hoops: Loops in Hyperspace](#). *Physical Review D* 83, 105024 [arXiv:1012.3758 [hep-th]].
- S. Dawson, C. B. Jackson and **P. Jaiswal**. (2011). [SUSY QCD Corrections to Higgs-b Production : Is the \$\Delta_b\$ Approximation Accurate?](#). *Physical Review D* 83, 115007 [arXiv:1104.1631 [hep-ph]].
- S. Dawson and **P. Jaiswal**. (2010). [Four Generations, Higgs Physics, and the MSSM](#). *Physical Review D*, 82, 073017 [arXiv:1009.1099 [hep-ph]].
- Nonaka, A., Almgren, A. S., Bell, J. B., Lijewski, M. J., **Malone, C. M.**, and Zingale, M. (2010). [An Adaptive Low Mach Number Hydrodynamics Algorithm for Stellar Flows](#). *Astrophysical Journal Supplement Series* 188, 358.
- Malone, C. M.**, Nonaka, A., Almgren, A. S., Bell, J. B., and Zingale, M. (2011). [Multidimensional modeling of Type I X-ray Bursts. I. Two-dimensional Convection Prior to the Outburst of a Pure 4He Accretor](#). *Astrophysical Journal* 728, 118.
- T. Y. Pang**, Sergei Maslov. (2011). [A Toolbox Model of Evolution of Metabolic Pathways on Networks of Arbitrary Topology](#). *Public Library of Science Computational Biology*, 7(5): e1001137.
- A. Poissier, S. Ganeshan**, M.V. Fernandez-Serra. (2011). [The role of hydrogen bonding in water-metal interactions](#). *Physical Chemistry Chemical Physics*, (13):3375.

Schlieder, J. E Lépine, S., & Simon, M. (2010). [\$\beta\$ Pictoris and AB Doradus Moving Groups: Likely New Low-Mass Members](#). *Astrophysics Journal*, 140: 119.

Shrock, Robert and **Xu, Yan**. (2011). [Ground State Entropy of the Potts Antiferromagnet on Homeomorphic Expansions of Kagome Lattice Strips](#). *Physical Review*, E 83, 041109.

Shrock, Robert and **Xu, Yan**. (2010). [Exact Results on Potts Model Partition Functions in a Generalized External Field and Weighted-Set Graph Colorings](#). *Journal of Statistical Physics*, 141, 909.

Teaney, Derek, **Yan, Li**. (2011). [Triangularity and dipole asymmetry in relativistic heavy ion collisions](#). *Physical Review C* 83, 064904 [arXiv:1010.1876 [nucl-th]].

❖ Abstracts, Conferences/Colloquia, Invited Talks, Presentations

Beznosko, Dmitriy. (2011). Measurement of CC1p +/CCQE Cross-Section Ratio in Neutrino Interactions with T2K POD Detector. *DPF 2011, Brown University*, Providence, RI

Jaiswal, Prerit. (2011). [Four Generations, Higgs Physics and the MSSM](#). *Pheno 2011*, University of Wisconsin, Madison, WI

Jaiswal, Prerit. (2011). [SUSY QCD Corrections to Higgs-b Production](#). *DPF 2011*, Brown University, Providence, RI.

Kotur, Marija. (2011). Strong Field Ionization of Excited State Molecules. *Cross Border Workshop*, Laser Science, Rochester, NY.

Malone, Chris. (2010). [Multidimensional Simulations of Convection Preceding a Type I X-ray Burst on the Surface of a Neutron Star](#). *Los Alamos National Laborator*. T-2 Seminar, Los Alamos, NM.

Schlieder, Joshua. (2011). [A Survey For New Low-Mass Members of Nearby Young Moving Groups](#). *Max Planck Institute for Astronomy Seminar*, Heidelberg, Germany.

Tschann-Grimm, Kathryn. (2010). [Search for the SM Higgs Boson in the Two Tau Plus Two Jet Final State](#). *Rencontres de Moriond- ElectroWeak*, La Thuille, Italy.

Yan, Li. (2011). The anisotropy flows in viscous hydrodynamics. *BNL RIKEN Lunch seminar*, Upton, NY.

Yan, Li. (2011). Anisotropy flow in Heavy Ion Collisions, viscous and non-linearity corrections. *2011 RHIC & AGS Annual Users' Meeting*, Upton, NY.

❖ Post-Doctorates Obtained and Professional Appointments

Caputo, Regina. (2011). Postdoctoral Research Associate. Institut für Physik, *Johannes Gutenberg-University Mainz*, Mainz, Germany.

Malone, Chris. (2011). Postdoctoral Scholar. Department of Physics and Astronomy, *University of California, Santa Cruz*, Santa Cruz, CA.

Schlieder, Joshua. (2011). Postdoctoral Scholar, *Max Planck Institute for Astronomy*, Heidelberg, Germany.

Tschann-Grimm, Kathryn. (2011). Research Associate. Physics Department, *Lancaster University*, Lancaster, UK.

PHYSIOLOGY AND BIOPHYSICS

DEPARTMENT CHAIR: PETER BRINK

GRADUATE PROGRAM DIRECTOR: (Ph.D.) RAAFAT EL-MAGHRABI
(M.S.) IRENE SOLOMON

❖ Grants, Fellowships, and Awards

Hu, Minyi. (2010). Best paper award. *Bone Fluid Flow Workshop*, Toronto, Ontario, Canada.

❖ Jointly Authored Publications

Lam, H., **Hu, M.**, Qin, YX. (2011). [Alteration of contraction-to-rest ratio to optimize trabecular bone adaptation induced by dynamic muscle stimulation](#). *Bone*, 48(2):399-405.

❖ Abstracts, Conferences/Colloquia, Invited Talks, Presentations

Hu, M., Cheng, J., Ferreri, S., Serra-Hsu, F., Lin, W., Qin, YX. (2011). Induced intramedullary pressure by dynamic hydraulic stimulation and its potential in attenuation of bone loss. Podium presentation presented at the *ASME Summer Bioengineering Conference (SBC)*, Farmington, PA.

Qin, YX, **Hu, M.**, Serra-Hsu, F, Cheng, J, Ferreri, S, Huang, Y, Zhang, ZK, Lin, L, Evangelista, D. (2011). Local and distant intramedullary pressure and bone strain by dynamic hydraulic stimulation. Poster presentation at the *ASME Summer Bioengineering Conference (SBC)*, Farmington, PA.

Hu, M., Cheng, J., Serra-Hsu, F., Ferreri, S., Lin, W., Qin, YX. (2011). Mitigation of bone loss by noninvasive low magnitude, short duration dynamic hydraulic stimulation in a simulated microgravity disuse model. Poster presentation at the *18th IAA Humans in Space Symposium*, Houston, TX.

Qin, YX, **Hu, M.**, Serra-Hsu, F., Cheng, J., Ferreri, S., Huang, Y., Zhang, ZK, Evangelista, D. (2011). External generated hydraulic stimulation on induced dynamic intramedullary pressure and its potentials in bone adaptation. Poster presentation at the *18th IAA Humans in Space Symposium*, Houston, TX.

Hu, M., Cheng, J., Ferreri, S., Serra-Hsu, F., Lin, W., Ni, Q., Qin, YX. (2011). Intramedullary pressure induced by dynamic hydraulic stimulation and its potential in attenuation of bone loss. Poster presentation at the *Annual Meeting of Orthopaedic Research Society*, Long Beach, CA.

Qin, YX, **Hu, M.**, Serra-Hsu, F., Cheng, J., Ferreri, S., Huang, Y., Zhang, ZK, Evangelista, D. (2011). Effects of dynamic hydraulic stimulation on local and distant intramedullary pressure and bone strain. Poster presentation at the *Annual Meeting of Orthopaedic Research Society*, Long Beach, CA.

Hu, M., Cheng, J., Ferreri, S., Serra-Hsu, F., Lin, W., Ni, Q., Qin, YX. (2010). Effect of dynamic hydraulic pressure stimulation on mitigation of bone loss in a rat disuse model. Poster presentation at the *The Annual Meeting of the American Society for Bone and Mineral Research*, Toronto, Ontario, Canada.

Qin, YX, **Hu, M.**, Serra-Hsu, F., Ferreri, S., Cheng, J. (2010). Intramedullary pressure induced by dynamic hydraulic pressure stimulation and its potential in bone adaptation. Poster presentation at the *Annual Meeting of the American Society for Bone and Mineral Research*, Toronto, Ontario, Canada.

- Uddin, S., Qin, YX, **Hu, M.**, Zhang, S., Cheng, J., Huang, B. (2010). Low intensity ultrasound increase rate of mineralization in stimulated microgravity. Poster presentation at the *Annual Meeting of the American Society for Bone and Mineral Research*, Toronto, Ontario, Canada.
- Hu, M.**, Cheng, J., Ferreri, S., Serra-Hsu, F., Lin, W., Ni, Q., Qin, YX. (2010). Effects of dynamic hydraulic stimulation on intramedullary pressure magnitudes and trabecular bone alterations. Poster presentation at the *Bone Fluid Flow Workshop*, Toronto, Ontario, Canada.
- Qin, YX, **Hu, M.**, Serra-Hsu, F., Cheng, J., Ferreri, S., Huang, Y., Zhang, ZK, Evangelista, D. (2010). Local and distant effects on intramedullary pressure and bone strain by dynamic hydraulic stimulation. Podium presentation at the *Bone Fluid Flow Workshop*, Toronto, Ontario, Canada. (Podium Presentation)
- Hu, M.**, Cheng, J., Ferreri, S., Serra-Hsu, F., Lin, W., Qin, YX. (2010). Local and systemic effects of dynamic hydraulic pressure stimulation on mitigation of bone loss in a rat disuse model. Podium presentation at the *Annual Meeting of Biomedical Engineering Society*, Austin, TX. (Podium Presentation).
- Qin, YX, **Hu, M.**, Serra-Hsu, F., Ferreri, S., Cheng, J., Zhang, Z., Huang, Y., Evangelista, D. (2010). Intramedullary pressure induced by dynamic hydraulic pressure stimulation and its potential in bone adaptation. Poster presentation at the *Annual Meeting of Biomedical Engineering Society*, Austin, TX.
- Hu, M.**, Cheng, J., Ferreri, S., Serra-Hsu, F., Lin, W., Qin, YX. (2010). Mitigation of bone loss by dynamic hydraulic pressure stimulation in a rat disuse model. Poster presentation at the *Gordon Research Conference on Musculoskeletal Biology and Bioengineering*, Andover, NH.
- Hu, M.**, Cheng, J., Ferreri, S., Serra-Hsu, F., Lin, W., Qin, YX. (2010). Mitigation of bone loss by dynamic hydraulic pressure simulation in a rat disuse model. Poster presentation at the *ASME Summer Bioengineering Conference (SBC)*, Naples, FL.
- Hu, M.**, Cheng, J., Ferreri, S., Serra-Hsu, F., Lin, W., Qin, YX. (2010). Mitigation of bone loss and muscle atrophy by dynamic hydraulic pressure stimulation. Poster presentation at the *Northeastern Biomedical Engineering Conference*, New York, NY.
- Hu, M.**, Cheng, J., Ferreri, S., Serra-Hsu, F., Lin, W., Qin, YX. (2010). Dynamic hydraulic pressure stimulation on mitigation of trabecular bone loss in a rat disuse model. Podium and poster presentation at *The Annual Meeting of Orthopaedic Research Society*, New Orleans, LA.

POLITICAL SCIENCE

DEPARTMENT CHAIR: JEFFREY SEGAL

GRADUATE PROGRAM DIRECTOR: (Ph.D.) OLEG SMIROV

(MA) STANLEY FELDMAN

(Public Policy, MA) PETER SALINS

❖ Grants, Fellowships, and Awards

Johnston, Christopher. (2010-2011). Dissertation Improvement Grant, \$12,000. *National Science Foundation*, Arlington, VA.

❖ Jointly Authored Publications

Johnston, Christopher D., and Bartels, B. (2010). [Sensationalism and sobriety: Differential media exposure and attitudes toward American courts](#). *Public Opinion Quarterly*, 74(2): 260-285.

Newman, Benjamin J., Bartels, B. (2011). [Politics at the checkout line: Explaining political consumerism in the U.S.](#) *Political Research Quarterly*, DOI: 10.1177/1065912910379232

Lebo, M., O'Geen, Andrew. (2011). [The President's Role in the Partisan Congressional Arena](#). *Journal of Politics*, 73(3):1-17.

Strickland, April A., Lawrence Locker, and William McIntosh. (2011). [Conservative versus liberal worldviews and introspective thought](#), *Journal of Ideology* 33.

PSYCHOLOGY

DEPARTMENT CHAIR: DANIEL KLEIN
GRADUATE PROGRAM DIRECTOR: SUSAN BRENNAN

❖ Grants, Fellowships, and Awards

- Feinstein, B. A.** (2010). Student Research Award, \$300, *Association for Behavioral and Cognitive Therapies, LGBT Special Interest Group*, San Francisco, CA.
- Foti, Dan.** (2011). Predoctoral Ruth L. Kirschstein National Research Service Award, \$59,590. *National Institute of Mental Health*, Bethesda, MD.
- Kim, Jiyon.** (2010). Student Poster Award, \$100. *Society for a Science of Clinical Psychology, American Psychological Association*, Washington, D.C.
- Trimber, Elizabeth.** (2011). National Science Foundation Graduate Research Fellowship, Honorable Mention. *National Science Foundation*, Arlington, VA.
- Weinberg, Anna.** (2010). National Research Service Award Pre-Doctoral Fellowship, \$83,988. *National Institute of Mental Health*, Bethesda, MD.
- Weinberg, Anna.** (2011). Wisconsin Symposium on Emotion Grant, \$800. *Health Emotions Research Institute*, Madison, WI.
- Weinberg, Anna.** (2010). Society for Psychophysiological Research Poster Award, \$200. *Society for Psychophysiological Research*, Madison, WI.
- Weinberg, Anna.** (2010). Society for a Science of Clinical Psychology Poster Award, \$200. *Society for a Science of Clinical Psychology/ Association for Psychological Science*, Washington, D.C.
- Xu, Xiaomeng.** (2010). Dissertation Research Award, \$1,000, *American Psychological Association*, Washington, D.C.

❖ Singly Authored Publications

- Selterman, D.** (2010). [Positive Psychology and the Importance of Close Relationships in TV Sitcoms: That 70s Show, Entourage, and How I Met Your Mother](#). *In-Mind Magazine*, 11.

❖ Jointly Authored Publications

- Alexander, R. G.,** Zhang, W., Zelinsky, G. J. (2010). [Visual Similarity Effects in Categorical Search](#). In S. Ohlsson & R. Catrambone (Eds.), *Proceedings of the 32nd Annual Conference of the Cognitive Science Society (1222-1227)*. Austin, TX: Cognitive Science Society.
- Dougherty, L. R., **Bufferd, S. J,** Carlson, G. A., **Dyson, M. W.,** Olino, T. M., & Klein, D. N. (2011). Associations between temperament and psychopathology in a community sample of preschoolers. *Journal of Clinical Child and Adolescent Psychology*, 40, 295-306.
- Klein, D. N., Kotov, R., & **Bufferd, S. J** (2011). [Personality and depression](#). *Annual Review of Clinical Psychology*, 7, 5.1-5.27.

- Cellucci, T., **Bufferd, S.**, Peltan, J., Humphreys, K., & Norcross, J.C. (2011). Division 12 benefits as viewed by graduate students and early career members. *The Clinical Psychologist*, 64, 4-9.
- Shankman, S.A. Klein, D.N., Torpey, D.C., Olino, T.M., **Dyson, M.W.**, **Kim, J.**, Durbin, C.E., Nelson, B.D., & Tenke, C.E. (2011). [Do positive and negative temperament traits interact in predicting risk for depression? A resting EEG study of 329 preschoolers.](#) *Development and Psychopathology*, 23, 551-562.
- Foti, D.**, Olvet, D.M., Klein, D.N., & Hajcak, G. (2010). [Reduced electrocortical response to threatening faces in major depressive disorder.](#) *Depression and Anxiety*, 27(9): 813-820.
- Foti, D.**, **Weinberg, A.**, Dien, J., & Hajcak, G. (2011). [Electrocortical activity in the basal ganglia differentiates rewards from non-rewards: Temporospatial principal components analysis and source localization of event-related potentials.](#) *Human Brain Mapping*. DOI: 10.1002/hbm.21357.
- Glenn, C. R.**, Blumenthal, Terry. D., Klonsky, E. David, & Hajcak, Greg. (2011). [Emotional reactivity in nonsuicidal self-injury: Divergence between self-report and startle measures.](#) *International Journal of Psychophysiology*, 80(2):166-170
- Alia-Klein N, Parvaz MA, Woicik PA, **Konova AB**, Maloney T, Shumay E, Wang R, Telang F, Biegon A, Wang G-J, Fowler JS, Tomasi D, Volkow ND, Goldstein RZ. (2011). [Gene x by disease interaction on orbitofrontal gray matter in cocaine addiction](#), *Arch Gen Psychiatry*, 68(3):283-94.
- Horga G, Parellada E, Lomeña P, Fernández-Egea E, Mané A, Font M, Falcón C, **Konova AB**, Pavia J, Ros D, Bernardo M. (2011). [Differential brain glucose metabolic patterns in antipsychotic-naïve first episode schizophrenia with and without auditory verbal hallucinations](#), *J Psychiatry Neurosci*, 36(1):100085.
- Kujawa, A. J.**, Torpey, D., **Kim, J.**, Hajcak, G., Rose, S., Gotlib, I., & Klein, D. N. (2011). [Attentional Biases for Emotional Faces in Young Children of Mothers with Chronic or Recurrent Depression.](#) *Journal of Abnormal Child Psychology*, 39(1): 125-135.
- Riela, S.**, Rodriguez, G., Aron, A., **Xu, X.**, & Acevedo, B.P. (2010). [Experiences of falling in love: Similarities and differences in culture, ethnicity, gender, and speed.](#) *Journal of Social and Personal Relationships*, 27(4): 473-493.
- Tsapelas, I.**, Fisher, H., & Aron, A. (2010). Infidelity: When, Where, Why? In R. Cupach & B. H. Spitzberg (Eds.) [Dark Side of Close Relationships II](#). New York: Routledge/Taylor & Francis Group.
- Weinberg, A.**, Olvet, D.M., & Hajcak, G. (2010). Abnormal response to errors in Generalized Anxiety Disorder. *Biological Psychology*, 85, 472-480.
- Weinberg, A.**, & Hajcak, G. (2010). Beyond Good and Evil: The time-course of neural activity elicited by specific picture subtypes. *Emotion*, 10, 767-782.
- Whately, T., **Weinberg, A.**, Looser, C., Moran, T., & Hajcak, G. (2011). Mind perception: real but not artificial faces sustain neural activity beyond the N170/VPP. *PLoS One*, 6, 1-7.
- Markowitz, S., Gonzalez, J. S., **Wilkinson, J. L.**, & Safren, S.A. (2011). A review of treating depression in diabetes: Emerging findings. *Psychosomatics*, (52): 1-18.

❖ Abstracts, Conferences/Colloquia, Invited Talks, Presentations

Hershenberg, R. (2010). Panel discussant in J. Davila (Chair), Training in evidence-based practice. Panel presented at *the Annual Convention for the Association for Behavioral and Cognitive Therapies*, San Francisco, CA.

Kim, Jiyon. (2010). Behavioral and Emotional Correlates of the Child Behavior Checklist-Pediatric Bipolar Disorder Profile in Preschool Children. *Symposium at the annual meeting of the American Academy of Child and Adolescent Psychiatry*, New York, NY.

❖ Post-Doctorates Obtained and Professional Appointments

Bufferd, Sara. (2010-2011). Clinical Psychology Intern. *Yale University School of Medicine*, New Haven, CT.

Xu, Xiaomeng. (2011). Post-Doctoral Research Fellowship Appointment. Department of Psychiatry and Human Behavior, *Brown University*, Providence, RI.

❖ Other

Bufferd, Sara. (2010-2012). Student Representative of the Membership Committee. *American Psychological Association, Division 12, Society of Clinical Psychology*, Washington, D.C.

SOCIOLOGY

DEPARTMENT CHAIR: MICHAEL SCHWARTZ
GRADUATE PROGRAM DIRECTOR: TIMOTHY MORAN

❖ Grants, Fellowships, and Awards

- Arancibia, Florencia.** (2010). Fulbright Scholarship, \$17,000. *Fulbright Argentina*, Buenos Aires, Argentina.
- Arancibia, Florencia.** (2010). Barsa Scholarship, \$3,000. *Institute of International Education*, Washington, DC.
- Coston, Bethany.** (2011). Center for Population Research in LGBT Health Fellowship. *The Fenway Institute*, Boston, MA.
- Ellison, Brooke.** (2011). Honorary Doctorate of Humane Letters. *Rutgers the State University of New Jersey*, New Brunswick, NJ.
- Gonzalez, Gabriela.** (2010). Organization of American States Academic Scholarship, \$35,487. *Organization of American States*, Washington, DC.
- Llewellyn, Cheryl.** (2011). Dissertation Proposal Development Fellowship, \$3,500. *Social Science Research Council*, Brooklyn, NY.

❖ Singly Authored Publications

- Akin, Affe Idil.** (2011). [Social movements on the internet: The effect and use of cyberactivism in Turkish Armenian reconciliation](#). *Canadian Social Science*, 7(2):39-46.
- Coston, Bethany.** (2011). Issues in intimate violence: Heterosexism and exclusion. In M. Ball and B. Scherrer (Eds.), *Queering Paradigms II* (295-312). New York, NY: Peter Lang Publishers.
- Ellison, Brooke.** (2011). [Communicating hope: The bridge between science and the future it creates](#). *Cell Stem Cell*. 8(6):616-617.
- Gonzalez, Gabriela.** (2010). [Mirror mirror: A qualitative analysis of intergenerational images of masculinities in Uruguay](#). *Culture, Society and Masculinities* 2(1):19-41.
- Maynard, Gary.** (2010). Why Jonestown? *Jonestown Report, Fall 2010 edition* San Diego State University, San Diego, CA.
- Roelfs, David J.** (2011). [Conflict, incommensurability, and theory groups: A longitudinal investigation of citations in the organization-environment literature](#). *Journal of Management Inquiry*. DOI:10.1177/1056492611403485.

❖ Jointly Authored Publications

- Kalish, Rachel** & Kimmel, M. (2010). [Hooking up: Hot hetero sex, or the new numb normative?](#) *Australian Feminist Studies*. 26(67):137-151.
- Kalish, Rachel** & Kimmel, M. (2011). [Suicide by mass murder: Masculinity, aggrieved entitlement, and random school shootings](#). *Health Sociology Review*. 19(4):451-464.
- Kennedy, Amanda** & **Llewellyn, Cheryl**. (2011). [XXX-Treme content: Why pornlands' conclusions are hard to swallow](#). *Sexualities* . 14(2):257-259.
- Kimmel, M. & **Coston, Bethany**. (2010). What about the men? In A. T. Gieger, O. Morgan, K. Meyer, and K. Skelton (Eds.), *The Shriver report: A woman's nation takes on Alzheimer's, a Report by Maria Shriver and The Alzheimer's Association* . The Alzheimer's Association, Chicago, IL, (217-230).
- Roelfs, David J.**, Shor, E., Davidson, K. W., and Schwartz, J. E. (2011). [Losing life and livelihood: A systematic review and meta-analysis of unemployment and all-cause mortality](#). *Social Science & Medicine*. 72(6):840-854.
- Roelfs, David J.**, Shor, E., Davidson, K. W., and Schwartz, J. E. (2010). [War-related stress exposure and mortality: A meta-analysis](#). *International Journal of Epidemiology*, 39,1499-1509.
- Shandra, J. M., **Restivo, Michael**, **Shircliff, Eric**, and London, B. (2011). [Do commercial debt-for-nature swaps matter for forests? A cross-national test of world polity theory](#). *Sociological Forum*, 26(2):381-410.
- Shandra, J. M., Rudel, T. K. , **Restivo, Michael**, and London, B. (2011). [Nongovernmental organizations and protected land area: A cross-national analysis](#). *International Journal of Sociology*, 40(2):85-99.
- Shandra, J. M. & **Restivo, Michael**. (2011). Guest editors, environmental change in a global perspective. *International Journal of Sociology*, 40(2).

❖ Theatrical Productions

- Kalish, Rachel**. (2011). Spotlight; The Vagina Workshop; My Vagina was My Village. *The Vagina Monologues, The Mother's Center*. Huntington, NY.

THEATRE ARTS

DEPARTMENT CHAIR: JOHN LUTTERBIE
GRADUATE PROGRAM DIRECTOR: STEVE MARSH

❖ Grants, Fellowships, and Awards

Kircher, Sonia. (2011). Turner Dissertation Fellowship Award. *Stony Brook University*, Stony Brook, New York.

❖ Post-Doctorates Obtained and Professional Appointments

Rebar, Donald. (2011). Staff Writer. The Gateway, *Performing Arts Center of Suffolk County*, Bellport, NY.

Rebar, Donald. (2010-2011). Script Reader. *Young Playwrights, Inc.*, New York, NY.

❖ Theatrical Productions

Casterline, Eileen. (2011). Writer/Director/Performer. Recovery: American Style. *Stony Brook Cabaret*, Stony Brook, NY.

Casterline, Eileen. (2011). Neighborhood 3: Requisition of Doom. *Stony Brook Cabaret*, Stony Brook, NY. (set designer)

Casterline, Eileen. (2011). Script Reader. *Young Playwrights, Inc.*, New York, NY.

Kircher, Sonia. (2011) Assistant Director., Fox Fables an Opera. *Symphony Space*, New York, NY.

Lenk, Waylon. (2010). Storyteller, Stories of Our People. *Consortia of Administrators for Native American Rehabilitation (CANAR)*, San Diego, CA.

Lenk, Waylon. (2011). Dramaturg, Performer, American Decameron. *The Tank*, New York, NY.

Lenk, Waylon. (2011). Assistant Dramaturg, The Woman Who Was Captured by Ghosts. *Native Voices at the Autry*, San Diego, CA.

Lydy-Mills, Christina. (2010). Writer/Performer, Mexicanpolitik. *Stony Brook University Cabaret*, Stony Brook, NY.

Lydy-Mills, Christina. (2011). Production Dramaturg, The Life of Galileo. *Stony Brook University*. Department of Theatre Arts, Stony Brook, NY.

Lydy-Mills, Christina. (2011). Production Dramaturg., Neighborhood 3: Requisition of Doom. *Stony Brook University Cabaret*, Stony Brook, NY.

Lydy-Mills, Christina. (2011). Script Reader. *Young Playwrights Inc.*, New York, NY.

Lydy-Mills, Christina. (2011). Performer. Recovery, American-Style. *Stony Brook University Cabaret*, Stony Brook, NY.

Lydy-Mills, Christina. (2011). Lyricist, The Facebook Song. *Stony Brook University Cabaret*, Stony Brook, NY.

Moes, Nancee. (2010). Writer/Performer, Mexicanpolitik. *Stony Brook University Cabaret*, Stony Brook, NY.

Petty, Christopher. (2011). Production Dramaturg, The Icarus Project. *Suffolk County Community College, Department of Theatre Arts*, Selden, NY.

Rebar, Donald. (2010-2011). Actor, What Killed Marcelo Lucero?, *Teatro Experimental Yerbabruja*, Various Locations, NY.

Rebar, Donald. (2011). Dramaturg. Young Playwrights Conference. *Young Playwrights, Inc*, New York, NY.

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