

ECOLOGY AND EVOLUTION

GRADUATE DIRECTOR: (PH.D.) JOHN TRUE
(M.A.) LEV GINZBURG
DEPARTMENT CHAIR: JESSICA GUREVITCH

❖ Grants, Fellowships, and Awards

- Aiello-Lammens, M.** (2009) Williams Award, \$500. *Department of Ecology and Evolution*, Stony Brook University, Stony Brook, NY.
- Aiello-Lammens, M.** (2010) Departmental Service Award. *Department of Ecology and Evolution*, Stony Brook, NY.
- Aldred, Mary.** (2010) Tibor T. Polgar Fellowship, \$4,800. *The Hudson River Foundation and the New York State Department of Environmental Conservation*, New York, NY.
- Aldred, Mary.** (2010) Robert R. Sokal Award for Research in Statistical Biology, \$500. *Department of Ecology and Evolution*, Stony Brook University, Stony Brook, NY.
- Aldred, Mary.** (2010) Graduate Research Fellowship Program, Honorable Mention. *National Science Foundation*, Washington, D.C.
- Cahill, Abigail.** (2009) International Research Experience for Students, \$4,000. *National Science Foundation and the University of Washington*, Washington D.C. and Seattle, WA.
- Fisher-Reid, M. Caitlin.** (2010) Gaige Fund Award, \$500. *American Society of Ichthyologists and Herpetologists*, Lawrence, KS.
- Fisher-Reid, M. Caitlin.** (2010) George C. Williams Award, \$500. *Department of Ecology and Evolution*, Stony Brook University, Stony Brook, NY.
- Fisher-Reid, M. Caitlin.** (2010) Conservation Leadership Award. *Department of Ecology and Evolution*, Stony Brook University, Stony Brook, NY.
- Grella, Rebecca A., Padilla, D., Perino, L.** (2010) Toyota TAPESTRY Grants for Science Teachers, \$10,000. *National Science Teachers Association*, Arlington, VA.
- Grella, Rebecca.** (2009) Second Annual NSF-Funded Short Course on Statistical Genetics & Statistical Genomics Registration Fee Award, \$250. *Department of Biostatistics*, University of Alabama School of Public Health, Tuscaloosa, AL.
- Grella, Rebecca.** (2009). Lemelson-MIT InvenTeams Grant, \$2000. *Lemelson-MIT Foundation*, Boston, MA.
- Grella, Rebecca.** (2010) National Science Teachers Association Travel Award, \$500. *National Science Teachers Association*, Arlington, VA.
- Grella, Rebecca.** (2009). Sokal Award, \$500. *Department of Ecology and Evolution*, Stony Brook University, Stony Brook, NY.
- Lyons, Patrick.** (2009) Graduate Fellowship, \$7,275. *Natural History Museum of Los Angeles County*, Los Angeles, CA.
- McCann, Michael.** (2010) The Lawrence B. Slobodkin Fund, \$500. *Department of Ecology and Evolution*, Stony Brook University, Stony Brook, NY.
- Moen, Daniel.** (2010) U.S. Student Fulbright Grant to Colombia, Travel/Stipend for 10 months. *U.S. Department of State*, Washington, D.C.

- Moen, Daniel** (2010) Smithsonian Predoctoral Research Fellowship, \$13,500. Smithsonian Institution. Washington, D.C.
- Moen, Daniel.** (2010) Tinker Field Research Grant, ~\$1500. *Latin American and Caribbean Studies, Stony Brook University.* Stony Brook, NY.
- Moen, Daniel.** (2010) Best Teaching Assistant Award. Dept. Ecology Evolution, Stony Brook University. Stony Brook, NY.
- Moen, Daniel.** (2010) Graduate Council Fellowship, \$20,000. *Graduate School, Stony Brook University.* Stony Brook, NY.
- Monzon, Javier.** (2009) LSAMP Bridge to the Doctorate Fellowship, \$30,000. *National Science Foundation,* Arlington, VA.
- Monzon, Javier.** (2009) Theodore Roosevelt Memorial Fund, \$1,500. *American Museum of Natural History,* New York, NY.
- Monzon, Javier.** (2010) Grants-in-Aid of Research, \$1,500. *American Society of Mammalogists.*
- Rollins, J.L.** (2010) Graduate Research Fellowship, \$90,000 for 3 years. *National Science Foundation.* Washington, D.C.
- Rollinson, Emily.** (2010) NSF Graduate Research Fellowship Program, \$40,500. *National Science Foundation,* Washington, D.C.
- Soda, K. James.** (2010) Friday Harbor Laboratories Scholarship, \$2,000. *Friday Harbor Laboratories,* Friday Harbor, Washington, D.C.
- Velasquez-Tibatá, Jorge.** (2009) Oral Presentation Award Finalist. *23rd Annual Meeting of the Society for Conservation Biology,* Beijing, China.
- Velasquez-Tibatá, Jorge.** (2009) Earth and Space Science Fellowship. *NASA,* Washington, D.C.
- Waldron, John.** (2010) Lawrence B. Slobodkin Fund Award, \$500. *Department of Ecology and Evolution,* Stony Brook University, Stony Brook, NY.

❖ **Singly Authored Publications/Research Reports/Reviews**

- Cogni, Rodrigo.** (2010) Biotic resistance to plant invasion? A native specialist herbivore shows preference for and higher fitness on an introduced host. *Biotropica*, 42: 188-193.
- Gray, Sarah.** (2010) Book review of *Environmental Biology: The conditions of life: Environmental selection, extinction, creation, adaptation and overpopulation* by T. Hilleman. *The Quarterly Review of Biology* 85(1): 92.
- Knowlton, Jessie L.** (2010) Breeding records of birds from the Tumbesian region of Ecuador. *Ornitologia Neotropical* (21):109-129.
- Knowlton, Jessie L.** (2010) Effects of habitat degradation on mixed species flocks of birds in the Tumbesian region of Ecuador. *American Ornithologist's Union.* San Diego, CA.
- Tinoco, Boris.** 2009. Seasonality of the bird community in the Tumbesian dry forest in south west Ecuador. *Ornitologia Neotropical* 20(2): 157-170.

❖ **Jointly Authored Publications/Research Reports/Reviews**

- Cogni, Rodrigo & Futuyma, Douglas J.** (2009) Local adaptation in a plant herbivore interaction depends on the spatial scale. *Biological Journal of the Linnean Society* 97: 494-502.
- Knowlton, J.L. and **Graham, C.H.** (In Press) Using behavioral landscape ecology to predict species' responses to land-use and climate change. *Biological Conservation.*

- Hua, X.**, C. Fu, J., Li, A. Nieto-Montes de Oca, and J. J. Wiens. (2009) A revised phylogeny of Holarctic treefrogs (genus *Hyla*) based on nuclear and mitochondrial DNA sequences. *Herpetologica* 65: 246–259.
- Hua, X.**, and J. J. Wiens. (2010) Latitudinal variation in speciation mechanisms in frogs. *Evolution* 64: 429–443.
- Knowlton, J.L.** and Graham, C.H. (In Press) Using behavioral landscape ecology to predict species' responses to land-use and climate change. *Biological Conservation*.
- Lyons, Patrick**, Carol, C., Portnoy, J., Gwilliam, E (2009) Dynamics of Macroalgal Blooms along the Cape Cod National Seashore. *Northeast Naturalist* 16(1): 53-66.
- O'Donnell, K.** and M. Pigliucci. (In Press) Selection dynamics in native and introduced *Persicaria* species. *International Journal of Plant Sciences*.
- Park, P.J.** and M.A. Bell. 2010. Variation of telencephalon morphology of the threespine stickleback (*Gasterosteus aculeatus*) in relation to inferred ecology. *J. Evol. Biol.* In press.
- O'Donnell, K. and **Pigliucci, M.** (In Press) Selection dynamics in native and introduced *Persicaria* species. *International Journal of Plant Sciences*.
- Tinoco, B.A.**, Astudillo, P.X., Latta, S.C., Graham C.H. (2009) Distribution, Ecology and Conservation of an Endangered Andean Hummingbird: The Violet-Throated Metaltail (*Metallura Baroni*). *Bird Conservation International* 19 (1): 63-76.
- Graham C.H., Silva, N. & **Velasquez-Tibatá, J.** (In Press) Evaluating the potential causes of range limits of Andean birds. *Journal of Biogeography*.
- Graham, C.H., Loiselle, B.A., **Velásquez-Tibatá, J.** & Cuesta F. (In Press) Species distribution modelling and the challenge of predicting future distributions. *IAI-SCOPE*.

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

- Aiello-Lammens, M.** (2010) Herbaria specimens as a history lesson: the spread of Glossy buckthorn. *Department of Ecology and Evolution Retreat*. Stony Brook, NY.
- Aiello-Lammens, M.**, Akcakaya, H.R., Fischer, R.A., Convertino, M., Chu-Agor, M.L., Martinez, C., Linkov I. (2010) Integrated Climate Change and Threatened Bird Population Modeling to Assess Risks from Changes in Sea-level and Weather Patterns. *Society for Conservation Biology, 24th Annual Meeting*. Edmonton, AB.
- Aldred, Mary.** (2010) Effects of Wetland Plants on Denitrification Rates: A Meta-Analysis. *Joint Meeting of the American Society of Limnology and Oceanography and the North American Benthological Society: Aquatic Sciences: Global Changes from the Center to the Edge*. Santa Fe, NM.
- Brown, Leone.**, Velasquez-Tibata, J., Buermann, W., and Graham, C.H. (2009) The importance of habitat, bioregion and variable source in modeling distributions on threatened and endemic birds of Colombia. *Annual meeting for the American Ornithologist's Union*. Philadelphia, PA.
- Cahill, Abigail**, Crickenberger, S., Crim, R.N., Selden, R.L. (2010) Dispersal limitation and post-settlement survival of an introduced ascidian (*Botrylloides violaceus*) in San Juan Islands, WA. *Annual Meeting of the Society of Integrative and Comparative Biology*. Seattle, WA.
- Cogni, Rodrigo.** (2009) A free meal: no costs for acquiring defensive plant alkaloids in an arctiid moth (*Utetheisa ornatrix*). *Evolution*. Moscow, ID. *Gordon Conference on Plant-Herbivore Interactions*. Galveston, TX.

- Goldberg, Aaron**, Russell, A., Leon, Y., Núñez, M., and Davalos, L. (2009) How to store mammalian tissues for DNA-based analyses in tropical field conditions. *North American Symposium on Bat Research*. Portland, OR.
- Gray, Sarah**. (2009/2010) Inside the leaves of pitcher plants: a model food web for studying community ecology and species invasions. *Invited Talk*. Fribourg, Switzerland. *Invited Talk*. Jena, Germany.
- Gray, Sarah**. (2009) Helpful bacteria? The intricate relationship between the pitcher plant *Sarracenia purpurea* and its microscopic aquatic community. *Pine Barrens Forum*. Upton, NY. (invited poster)
- Padilla, Dianna and **Gray, Sarah**. (2009) Risky Business: Biological Invasion Through Aquarium Releases. *Pine Barrens Forum*. Upton, NY. (invited talk)
- Gray, Sarah**. (2009) A better predictor for intermediate trophic level invasion success: propagule pressure or competitive ability? *Ecological Society of America Conference*. Albuquerque, NM.
- Laybourn, Adam**. (2009) Community Structure of Three Tropical Dry Forests. *International Conference of the International Biogeography Society*. Merida, Mexico.
- Lyons, Patrick** (2009) Dynamics of shrimp goby mutualism in the Caribbean. *Society of Integrative and Comparative Biology Annual Meeting 2009*. Boston, MA.
- Lyons, Patrick** (2010) Shrimp-goby mutualism: insights into evolution of partner specificity and dependency. *Stony Brook Dept. of Ecology and Evolution Retreat*. Old Field, NY.
- Lyons, Patrick** (2010) Shrimp-goby mutualism: insights into evolution of partner specificity and dependency. *39th Annual Benthic Ecology Meetings*. Wilmington, NC.
- Moen, D.S.** (2009) The evolution of phenotypic diversity in clades and communities of frogs. *Invited Talk*. Fudan University, Shanghai, China. *Invited Talk*. Kunming Institute of Zoology, Kunming, China.
- Monzon, J.**, Moyer-Horner, L., and Palamar, M. (2010) Climate change and species range dynamics in protected areas. *NSF CUNY-SUNY Conference in Science and Engineering*. New York, NY. *95th Annual Meeting of the Ecological Society of America*. Pittsburgh, PA.
- Monzon, J.** and Kays, R. (2010) Beyond mitochondrial DNA: An analysis of population genetic structure in northeastern coyotes using highly variable SNPs. *90th Annual Meeting of the American Society of Mammalogists*. Laramie, WY.
- Monzon, Javier**. (2010) *U.S. National Park Service Park Break! Workshop*. Great Sand Dunes National Park and Preserve, CO.
- O'Donnell, Kelly**. (2009) Selection dynamics in native and introduced *Persicaria* species. *Odum Conference*. Rensselaerville, NY.
- Morales, Chris, **Opulente, Dana**, Bullaughey, Kevin, Moon, Seungjae, Bolen, Geoff, Fisher, Julius, Waldron, John, Dedousis, Demitri, Praissman, Laura, Carey, Lucas, and Rest, Joshua. (2009) A Fitness Landscape of Gene Expression. *Inaugural Symposium for the Laufer Center for Computational Biology and Genome Sciences*. Stony, Brook, NY. (poster)
- Dedousis, Demitri, Bolen, Geoff, Moon, Seungjae, **Opulente, Dana**, Morales, Chris, Carey, Lucas, Praissman, Laura, Liu, Chupiao, Bullaughey, Kevin, and Rest, Joshua. (2009) The Effect of Gene Expression Level on Yeast Growth. *Simons Program Symposium*. Stony, Brook, NY. (poster)
- Tinoco, Boris**. (2009) Influencia de factores a nivel local y de paisaje en la comunidad de aves de los bosques de Polylepis. *Taller de sociabilización del programa de investigación de aves del Parque Nacional Cajas*. Cuenca, Azuay/Ecuador.
- Tinoco, Boris**. (2009) Composición y Estructura de una comunidad de aves altoandinas en una gradiente de disturbio. *II Reunión Ecuatoriana de Ornitología*. Guayaquil, Guayas/Ecuador.
- Velásquez-Tibatá, Jorge**. (2009) Assessing the impact of climate change on birds of conservation concern in Colombia. *Society for Conservation Biology Meetings*. Beijing, China,

Morales, Chris, Dana Opulente, Kevin Bullaughey, Seungjae Moon, Geoff Bolen, Julius Fisher, **John Waldron**, Demitri Dedousis, Laura Praissman, Lucas Carey, and Joshua Rest. (2009) A Fitness Landscape of Gene Expression. *Inaugural Symposium for the Laufer Center for Computational Biology and Genome Sciences*. Stony, Brook, NY. (poster)

Warchola, Norah. (2010) Vegetation preference at multiple scales: Do small scale movement decisions shape landscape level distribution of butterflies. *95th Ecological Society of America Annual Meeting*. Pittsburgh, PA.

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

Cogni, Rodrigo. (2010) NSF Postdoctoral Fellow. Department of Ecology and Evolution, *Stony Brook University*, Stony Brook, NY.

❖ **Other**

Grella, Rebecca. (2010) ISWEEEP Teacher Recognition, International Bronze Medal Finalists. Student Scholarship, \$400. *International Sustainable World (Energy, Engineering, and Environment) Project Olympiad*, Houston, Texas.

Grella, Rebecca (2010). Organizer and Co-Developer of DNA Week. \$10,000. National Grid Foundation, Cold Spring Harbor Laboratory, Brentwood Union Free School District, Brentwood, NY.