

Sarah M. Gray

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EDUCATION

- 2004- **Stony Brook University**, Stony Brook, NY
Ph.D. Candidate in Ecology and Evolution
Advisor: Dr. Dianna K. Padilla
- 1999-2003 **Florida State University**, Tallahassee, FL
B.S. in Biological Sciences (with Honors, Cum Laude)
Undergraduate Advisor: Dr. Tom E. Miller

RESEARCH EXPERIENCE

- 2006- 2008 **Research Assistant**, Stony Brook University, Stony Brook, NY.
Impact of the aquatic nuisance species, *Crassostrea gigas*, on the rocky intertidal community.
Supervisor: Dr. Dianna K. Padilla
- 2005 **Research Assistant**, Friday Harbor Laboratories, Friday Harbor, WA.
Biological invasions by an aquatic nuisance species.
Supervisor: Dr. Dianna K. Padilla
- 2003-2004 **Head Technician**, The Florida State University, Tallahassee, FL.
The seasonal community dynamics of the inquiline community of the purple pitcher plant, *Sarracenia purpurea*.
Molecularly determining culturable pitcher plant bacteria.
Supervisor: Dr. Tom E. Miller
- 2003-2004 **Technician**, The Florida State University, Tallahassee, FL.
Plastic responses to environment quality of the perennial plant, *Viola septemloba*.
Supervisor: Dr. Alice A. Winn
- 2002-2003 **Honor Thesis**, The Florida State University, Tallahassee, FL.
Nutrient limitation in the inquiline community of the pitcher plant, *Sarracenia purpurea*.
Supervisor: Dr. Tom E. Miller
- 2002 **Research Experience for Undergraduates**, The Florida State University, Tallahassee, FL.
Supervisor: Dr. Tom E. Miller

PUBLICATIONS

- Mouquet N., T. Daugresne, **S.M. Gray**, T.E. Miller. 2008. On the relationship between a pitcher plant (*Sarracenia purpurea*) and its phytotelmata community: mutualism or parasitism? *Functional Ecology*.

Gray, S.M., T.E. Miller, N. Mouquet, T. Daufresne. 2006. Nutrient limitation in *Sarracenia purpurea* microcosms. *Hydrobiologia* 573: 173-181.

POPULAR SCIENCE ARTICLES

Gray S. M. 2008. Carnivores of the plant world in our own backyard. Invited article, Long Island Botanical Society Newsletter 18: 25, 27.

Padilla, D.K. and **S.M. Gray**. 2006. Risk assessment for aquarium releases and other aquatic invaders: where do we start? Invited article, SETAC Newsletter. November Issue.

LITERATURE REVIEWS

Padilla, D.K. and **S.M. Gray**. 2008. Literature review of *Invasion Ecology* by J.L. Lockwood, M.F. Hoopes, and M.P. Marchetti. *The Quarterly Review of Biology*.

PRESENTATIONS

Invited Talk. Provost Lecture Series. Stony Brook University. TBA.

Invited Talk. Inauguration. Stony Brook University President. Stony Brook University. TBA.

Helpful bacteria? The intricate relationship between the pitcher plant *Sarracenia purpurea* and its microscopic aquatic community. 2009. Pine Barrens Forum. Invited Poster. New York.

Assessing patterns of microbial diversity with metagenomics. 2009. Department of Ecology and Evolution Retreat Talk. Stony Brook, NY.

Not just an ant trap anymore: Research using the food web within pitcher plant leaves. 2009. Invited Colloquium Speaker, Long Island University, CW Post Campus, NY.

Dynamics of the pitcher plant, *Sarracenia purpurea*, and the food web inhabiting its leaves. 2009. Invited Speaker, Long Island Botanical Society, Stony Brook, NY.

Using a model system to examine the effects of perturbations on community dynamics. 2008. Department of Ecology and Evolution Retreat Talk. Stony Brook, NY.

Variable responses of a key salt marsh facilitator to multiple invasive predators. Ecological Society of America Annual Meeting. 2007. Poster. San Jose, California.

Invasive ecosystem engineers: the effects of oysters on rocky intertidal habitat. Ecological Society of America Annual Meeting. 2006. Poster. Memphis, Tennessee.

Nutrient Limitation in the Inquiline Community of the Pitcher Plant, *Sarracenia Purpurea*. Association of Southeastern Biologists Conference. 2003. Talk. Arlington, VA.

AWARDS, FELLOWSHIPS, SCHOLARSHIPS

- 2009 **Doctoral Dissertation Improvement Grant.** National Science Foundation. \$15,000.
- 2009 **Slobodkin Award.** Department of Ecology and Evolution, Stony Brook University, Stony Brook, NY. \$500.
- 2009 **Sigma Xi Grant-In-Aid of Research.** National Academy of Sciences. \$800.
- 2006 **Slobodkin Award.** Department of Ecology and Evolution, Stony Brook University. Stony Brook, NY. \$500. To go towards dissertation research.
- 2005 **Graduate Student Fellowship.** Friday Harbor Laboratories, Friday Harbor, WA. \$1900. For 2005 summer support at Friday Harbor Laboratories.

PROFESSIONAL AND TEACHING EXPERIENCES

- 2009 **Guest Lecturer.** Bio 104: How Science Works.
- 2008-2009 **Teaching Assistant.** Bio 113 General Ecology. Stony Brook University.
- 2006 **Guest Lecturer** *Microcosms as model systems* In: Food Web Lecture of Graduate level Principles of Ecology Course. Stony Brook University.
- 2006 **Mentor** for undergraduate research (total of 4 students).
- 2005 **Teaching Assistant.** Bio 201 Lecture: Organisms to Ecosystems. Stony Brook University.
- 2005 **Teaching Assistant.** Introductory Biology Laboratory. Stony Brook University.
- 2004 **Teaching Assistant.** Bio 201 Lecture: Organisms to Ecosystems. Stony Brook University.
- 2003-2004 **Co-leader** for Sea-to-See Marine Environmental Education Program. The Florida State University.

ACADEMIC AND PROFESSIONAL SERVICES

I have been a reviewer for: *Ecology, Diversity and Distributions*

- 2009 **Student Representative for Graduate Student Preliminary Exam Committee.** Department of Ecology and Evolution. Stony Brook University.
- 2009- **President of Department of Ecology and Evolution “Ecology Club”.** Department of Ecology and Evolution. Stony Brook University.
- 2008- **Chair of Student Invited Speaker Committee.** Department of Ecology and Evolution. Stony Brook University.
- 2006 **Chair of Registration Packet/Hospitality Committee.** Society for the Study of Evolution Annual Meeting. Stony Brook University.

- 2005-2006 **Graduate Student Representative.** Department of Ecology and Evolution. Stony Brook University.
- 2004 **Prospective Student Departmental Retreat Organizer.** Department of Ecology and Evolution. Stony Brook University.

PROFESSIONAL SOCIETIES

American Microscopical Society
Ecological Society of America
Sigma Xi