

Michael B. Schrimpf

Ph.D. Candidate

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Research Interests

My current research focuses on the breeding distribution, community ecology, and interspecific relationships of Antarctic birds. I am most interested in exploring the various reasons why species are distributed where they are. In the past I have worked on other aspects of the ecology of both marine and freshwater organisms, with a particular emphasis on seabirds.

Educational Background

M.Sc. / Aquatic and Fishery Sciences, March 2011

University of Washington, Seattle, WA

B.A. / Biology and German, Magna cum Laude, June 2006

Lawrence University, Appleton, WI

Selected Honors/Awards

- Conservation Leadership Award
Dept. of Ecology & Evolution, Stony Brook University (2016)
- Robert R. Sokal Fund for Research in Statistical Biology; Stony Brook University (2015)
- Kevin King / John Miller Travel Scholarship; Stony Brook University (2014)
- Dorothy L. Pieper Award; Stony Brook University (2013)
- Best Student Paper; 37th Annual Meeting of the Pacific Seabird Group (2010)
- Best Student Poster; 35th Annual Meeting of the Pacific Seabird Group (2008)
- H. Mason Keeler Endowment for Excellence
School of Aquatic and Fishery Sciences, University of Washington (2007)
- Membership in Phi Beta Kappa (2006)
- Dean's List; Lawrence University (2003-2006)
- Peerenboom Prize Scholarship in the field of Semantics; Lawrence University (2004)
- Trustee Scholarship for academic excellence; Lawrence University (2002)

Publications

Humphries, G. R. W., R. Naveen, M. Schwaller, C. Che-Castaldo, P. McDowall, **M. Schrimpf**, and H. J. Lynch. 2017. Mapping Application for Penguin Populations and Projected Dynamics (MAPPPD): data and tools for dynamic management and decision support. *Polar Record* 53:160-166. DOI:[10.1017/S0032247417000055](https://doi.org/10.1017/S0032247417000055)

De Stasio, B.T., **M.B. Schrimpf**, and B.H. Cornwell. 2014. Phytoplankton communities in Green Bay, Lake Michigan after invasion by dreissenid mussels: increased dominance by cyanobacteria. *Diversity*. 6: 681-704. DOI:[10.3390/d6040681](https://doi.org/10.3390/d6040681)

Pearson, S.F., P.J. Hodum, T.P. Good, **M. Schrimpf**, and S.M. Knapp. 2013. A model approach for estimating colony size, trends, and habitat associations of burrow-nesting seabirds. *Condor*. 115(2): 356-365. DOI: [10.1525/cond.2013.110207](https://doi.org/10.1525/cond.2013.110207)

Schrimpf M.B., J.K. Parrish, and S.F. Pearson. 2012. Trade-offs in prey quality and quantity revealed through the behavioral compensation of breeding seabirds. *Marine Ecology Progress Series*. 460: 247-259. DOI:[10.3354/meps09750](https://doi.org/10.3354/meps09750)

De Stasio, B.T., **M. B. Schrimpf**, A. Beranek, W. Daniels, and E. Hoyer. 2010. Dreissenid driving tests: going the “wrong” way in Green Bay, Lake Michigan. *Verh. Internat. Verein. Limnol.* 30(10): 1540-1544.

De Stasio, B.T., **M.B. Schrimpf**, A.E. Beranek, and W.C. Daniels. 2008. Increased Chlorophyll *a*, phytoplankton abundance, and cyanobacteria occurrence following invasion of Green Bay, Lake Michigan by dreissenid mussels. *Aquatic Invasions*. 3 (1): 21-27. DOI [10.3391/ai.2008.3.1.5](https://doi.org/10.3391/ai.2008.3.1.5)

Selected Non-Peer Reviewed Reports

Schrimpf, M.B. 2011. Trade-offs in prey quality and quantity revealed through the behavioral compensation of breeding seabirds. Master’s thesis. University of Washington, Seattle, WA. 51pp.

Pearson, S.F., P.J. Hodum, **M. Schrimpf**, J. Dolliver, T.P. Good, and J.K. Parrish. 2009. Rhinoceros Auklet (*Cerorhinca monocerata*) Burrow Counts, Burrow Density, Occupancy Rates, and Associated Habitat Variables on Protection Island, Washington: 2008 Research Progress Report. Washington Department of Fish and Wildlife, Wildlife Science Division, Olympia.

Schrimpf, M. 2006. The Phytoplankton Community Structure of Southern Green Bay: Trophic Gradient and Seasonal Dynamics. Lawrence University. Baccalaureate Honors Thesis. 76pp.

Anderson, R. and **Schrimpf, M.** 2005. Bacterial Abundance, Dissolved Oxygen, and Nutrient Concentrations with Depth along a South-North Transect in the Atlantic Ocean. C-199. Sea Education Association, Woods Hole, MA.

Selected Presentations

Schrimpf, M., C. Che-Castaldo, and H. Lynch. 2016. Mapping Antarctic avian biogeography and species overlap with multi-state occupancy models. 6th North American Ornithological Conference, Washington D.C. August 19, 2016. [Oral Presentation]

Schrimpf, M.B. and H. Lynch. 2015. Accounting for non-detection in Antarctic seabird breeding distributions derived from rapid site visits. 2nd World Seabird Conference, Cape Town, South Africa. [Oral Presentation, recognized in the top-ten student papers]

Schrimpf, M.B. and H. Lynch. 2015. Accounting for non-detection in colonial bird breeding distributions derived from opportunistic site visits. Ecological Society of America, 100th Annual Meeting, Baltimore, MD. August 12, 2015. [Oral Presentation]

Schrimpf, M. 2014. Seabirds: sailors of the natural world. SEA Semester Lecture, Woods Hole, MA, May 5, 2014. [Public Lecture]

Schrimpf, M.B., J.K. Parrish, N.A. Zorich, P.L. Madson, and M.R. Jonas. 2011. Comparison of California Gull (*Larus californicus*) diet at two dams along the mid-Columbia River. Society for Northwestern Vertebrate Biology/Washington Chapter of the Wildlife Society Joint Annual Meeting, Gig Harbor, WA. March 24, 2011. [Oral Presentation]

Schrimpf, M.B. 2011. Life on seabird colonies. Washington Ornithological Society Monthly Meeting, Seattle WA. February 7, 2011. [Oral Presentation]

Schrimpf, M.B. and J.K. Parrish. 2010. The influence of bottom-up physical forcing on the provisioning of alcid chicks. 1st World Seabird Conference, Victoria, BC. September 11, 2010. [Oral Presentation]

Schrimpf, M.B. and J.K. Parrish. 2010. The best of times and the worst of times: the role of extrinsic and intrinsic factors in shaping Common Murre (*Uria aalge*) chick diet. Pacific Seabird Group, 37th Annual Meeting, Long Beach, CA. February 18, 2010. [Oral Presentation, awarded best student paper]

Schrimpf, M.B. and J.K. Parrish. 2008. That fish is so last year! Temporal variation in common murre (*Uria aalge*) chick diets. Pacific Seabird Group, 35th Annual Meeting, Blaine, WA. February 28, 2008. [Poster Presentation, awarded best student poster]

Schrimpf, M.B., B.T. De Stasio and T. Reed. 2007. Unusual shifts in trophic structure following dreissenid invasion of Green Bay, Lake Michigan. American Society of Limnology and Oceanography, Aquatic Sciences Meeting, Santa Fe, NM. February 5, 2007. [Oral Presentation]

Schrimpf, M., Daniels, W., Haas, T., and De Stasio, B.T. 2005. Trophic Status of Southern Green Bay: Persistence of a Trophic Gradient and Recent Changes in Relative Abundance of Cyanobacteria. State of the Lake, 4th Biennial Meeting. Green Bay, WI. November 3, 2005. [Oral Presentation]

Research/Laboratory Background

Antarctic seabird community ecology
Stony Brook University, Dr. Heather Lynch (2013-present)

Oceanography and marine education
Sea Education Association (2011-2013)

Pacific Northwest seabird colony monitoring
Washington Dept. of Fish and Wildlife, Dr. Scott Pearson (2010-2011)

Seabird foraging ecology
University of Washington, Dr. Julia Parrish (2007-2011)

Freshwater plankton ecology
Lawrence University, Dr. Bart De Stasio (2006-2007)

Assistant Chemistry Stockroom Manager
Lawrence University, Dr. Jerrold Lokensgard

(2006-2007)

Teaching and Mentoring

I consider my training as an effective educator to be equally important as my development as a scientist. My experience in education and mentoring is varied, and includes the following official appointments:

As instructor:

Ecology Laboratory

Stony Brook University

Undergraduate Biology/Ecology and Evolution (BIO 352/BEE 571)

(2016)

Introduction to Statistical Thinking and Practice

Stony Brook University

Center for Science and Math Education (CSM 599)

(2015)

As teaching/laboratory assistant:

Evolution

Dr. Douglas J. Futuyma, Dr. Joshua S. Rest; Stony Brook University

Undergraduate Biology (BIO 354)

(2015)

Applied Ecology and Conservation Biology

Dr. Lev Ginzburg; Stony Brook University

Undergraduate Biology/Ecology and Evolution (BIO 356/BEE 587)

(2014, 2015)

Ecology Laboratory

Dr. Catherine Graham; Stony Brook University

Undergraduate Biology/Ecology and Evolution (BIO 352/BEE 571)

(2013)

DNA and Evolution

Dr. Jon Herron; University of Washington

Honors Arts & Sciences (HA&S 221)

(2010)

Aquatic Ecology

Dr. Bart De Stasio; Lawrence University

Biology (BIOL 330)

(2005)

Terrestrial Field Ecology

Dr. Jodi Sedlock; Lawrence University

Biology (BIOL 345)

(2004)

As mentor:

Laboratory Watch Officer/Student Project Advisor

Sea Education Association

(2011-2013)

Intern Mentor; Howard Hughes Medical Institute Integrative Research Internship Program

University of Washington

(2009)

Project Advisor: Bryant Science Fair
Bryant Elementary School

(2009)

Academic/Department Service

Dept. of Ecology & Evolution, Stony Brook University

- Secretary, Graduate Student Ecology Club (2016-present)
- Treasurer, Graduate Student Ecology Club (2015-2016)
- Organizer, Weekly Graduate Student Seminar (2014-2015)
- Committee on Academic Honesty (2016)

Lawrence University

- Honor Council (academic ethics board) (Member: 2003-2006, Co-chair: 2004-2006)

Scientific Societies

American Ornithological Society

Pacific Seabird Group

Ecological Society of America

Other Experience and Volunteer Roles

Friends of the Ashley Schiff Park Preserve

www.ashleyschiff.org

Education Committee Chair: 2013-2016

President: 2016-present

eBird – volunteer data reviewer

www.ebird.org

Guest classroom presentations

North Country Road Middle School, Miller Place, NY

The Biology and Conservation of Marine Birds, Stony Brook University (MAR 377/578)

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