

Sarah DeVaul Princiotta

Lacawac Sanctuary and Biological Field Station
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EDUCATION

- Ph.D., Biology** 2016
Department of Biology, Temple University
Philadelphia, PA
Thesis title: *Mixotrophy in freshwater food webs*
Advisor: Dr. Robert Sanders
- B.S., Biology, cum laude, distinction in major** 2010
Department of Biology, Temple University
Philadelphia, PA

PROFESSIONAL APPOINTMENTS

- Adjunct Lecturer** 2017-present
Penn State Worthington-Scranton
Dunmore, PA
- Director of Research and Education** 2016-present
Lacawac Sanctuary Biological Field Station
Lake Ariel, PA
- Adjunct Assistant Professor** 2016
Department of Biology, Temple University
Philadelphia, PA
- Graduate Research Assistant** 2010-2016
Department of Biology, Temple University
Philadelphia, PA
Advisor: Robert Sanders
- Graduate Teaching Assistant** 2010-2016
Department of Biology, Temple University
Philadelphia, PA

PUBLICATIONS

Papacostas KJ, Reilly EW, Georgian SE, Long D, **Princiotta SD**, Quattrini AM, Reuter KE and Freestone AL. *Biological Characteristics of Marine Invasions*. In Press. Marine Ecology Progress Series. DOI: 10.3354/meps12001

Princiotta SD and Sanders RW. *Heterotrophic and mixotrophic nanoflagellates in a mesotrophic lake: abundance and grazing impacts across season and depth*. In Press. Limnology and Oceanography. DOI: 10.1002/lno.10450

Princiotta SD, Smith BT and Sanders RW (2016) *Temperature-dependent phagotrophy and phototrophy in a mixotrophic chrysophyte*. Journal of Phycology 52: 432-440

Cooke SL, Fischer JM, Kessler K, Williamson CE, Sanders RW, Morris DP, Porter JA, Jeffrey WH, **Princiotta SD** and Pakulski D (2015) *Direct and indirect effects of additions of chromophoric dissolved organic matter on zooplankton during large-scale mesocosm experiments in an oligotrophic lake*. *Freshwater Biology* 60: 2362-2378

Heinze AW, Truesdale CL, **DeVaul (Princiotta) SB**, Swinden J and Sanders RW (2013) *The role of temperature in the vertical distribution, growth, and grazing rates of the mixotrophic chrysophyte Dinobryon*. *Aquatic Microbial Ecology* 71: 155-163

CONTRIBUTED PRESENTATIONS

DeVaul (Princiotta) SB and Sanders RW (2016) *Vertical distribution of mixotrophic protists in a mesotrophic lake*. Annual meeting of the Northeast Algal Society. Westfield, MA.

DeVaul (Princiotta) SB and Sanders RW (2016) *Spatial and temporal dynamics of mixotrophic protists within a protected glacial lake*. ASLO Ocean Sciences Meeting. New Orleans, LA.

DeVaul (Princiotta) SB and Sanders RW (2015) *Striking a balance between phototrophy and heterotrophy in the mixotrophic chrysophyte Dinobryon*. Annual meeting of Phycological Society of America. Philadelphia, PA.

*Awarded Harold C. Bold Award for best oral presentation by a graduate student

DeVaul (Princiotta) SB and Sanders RW (2015) *Temperature-dependent phagotrophy and phototrophy in a mixotrophic chrysophyte*. Annual meeting of Northeast Algal Society. Syracuse, NY.

*Awarded Robert T. Wilce Award for best oral presentation by a graduate student

DeVaul (Princiotta) SB and Sanders RW (2014) *Seasonal dynamics of phagotrophic and phototrophic nanoplankton in Lake Lacawac*. Lacawac Ecology Conference. Lake Ariel, PA.

Sanders RW, **DeVaul (Princiotta) SB** and Heinze AW (2012) *Temperature-driven changes in growth and bacterivory in a common mixotrophic chrysophyte*. PROTIST 2012 (Joint Meeting of the International Society of Protistologists and International Society for Evolutionary Protistology). Oslo, Norway.

Fay SA, Gast RJ, **DeVaul (Princiotta) SB** and Sanders RW (2012) *Studying Trophic Compartments of Eukaryotic Food Webs Using a Thymidine Analog and Environmental DNA Sequencing*. ASLO Ocean Sciences Meeting. Salt Lake City, UT.

Fay SA, **DeVaul (Princiotta) SB**, Halliday E, Gast RJ, and Sanders RW (2011) *Separation of Eukaryotic Bacterivore DNA from Environmental Samples*. Joint Meeting of the Phycological Society of America and the International Society of Protistologists. Seattle, WA.

GRANTS AND FELLOWSHIPS

Overlook Estate Foundation Grant	2016
Temple University Dissertation Completion Grant	2015
Phycological Society of America, Croasdale Fellowship	2015
NSF GK-12 Fellowship: <i>Scientists as Teachers, Teachers as Scientists</i>	2013-2015
National Science and Mathematics Access to Retain Talent Grant	2008-2010

HONORS, AWARDS AND SCHOLARSHIPS

Student Travel Award, Northeast Algal Society	2015, 2016
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Harold C. Bold Award for best oral presentation by a graduate student, Phycological society of America	2015
Robert T. Wilce Award for best oral presentation by a graduate student, Northeast Algal Society	2015
Thomas Punnett Memorial Scholarship College of Science and Technology, Temple University	2014
Outstanding Service to Students in Science, Pennsylvania Future Farmers of America	2014

TEACHING AND MENTORING

Primary Instructor

Penn State Worthington-Scranton, Science Program
2017: Biology, Molecules and Cells (*BIOL 230W*)

Temple University, Department of Biology
2016: Experimental Marine Biology (*BIOL 3244*)

Graduate Teaching Assistant

Temple University, Department of Biology
Introduction to Biology (*BIOL 1111*)
Marine Ecology (*BIOL 3245*)
Principles of Ecology (*BIOL 2227*)
Human Biology (*BIOL 1001*)

Undergraduate Mentorship

Temple University
Jan Angeles (2015-2016), Emmet Nealon (2015-2016), Tiffany Nguyen (2014-2016), Brian Smith (2014-2015), Jessica Wyatt (2014), Lydia Adnane (2014), Jessie Lepkowski (2012-2014)

SERVICE TO THE PROFESSION

2016: Invited speaker, *Lacawac Sanctuary's Vision for Citizen Science in the Poconos*, Coalition for the Delaware River Watershed

Public Outreach

2014: Liaison for Temple University Undergraduate Research Forum and Creative Works Symposium
2014: Program facilitator and mentor for Scholar Advancement Program, Temple University Office of Scholar Development and Fellowships Advising
2013: George Washington Carver Science Fair sponsor, W.B. Saul High School, Philadelphia PA
2013: Future Farmers of America Agriscience Fair sponsor, W.B. Saul High School, Philadelphia PA
2013: Mini-course instructor (*Human Impacts!*), Science Leadership Academy, Philadelphia PA
2012: Research Exhibitor (*Marine Invasive Species in NJ*), Philadelphia Science Festival, Independence Seaport Museum

Professional Membership

Association for the Society of Limnology and Oceanography, Global Lakes Ecological Observatory Network, National Lake Management Society, Northeast Algal Society (Executive committee member, 2015 –2016), Pennsylvania Lake Management Society, Phycological Society of America