

Louise M. Stevenson, PhD

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Department of Biology
Bowling Green State University

Academic Appointments

- August 2018 **Bowling Green State University**, Bowling Green, OH
Assistant Professor of Environmental Toxicology, Dept. of Biological Sciences
- 2016 – 2018 **University of California, Santa Barbara**
Postdoctoral researcher
PIs: Dr. Erik Muller and Dr. Roger Nisbet
- 2013-2016 **UC Center for Environmental Implications of Nanotechnology**
Graduate Student Researcher.
- 2013-2016 **Center for Nanotechnology and Society**
Graduate Research Fellow; CNS Science Fellow working on a project investigating the public risk perception of hydraulic fracturing.

Education

- 2016 **Ph.D.** in Ecology, Evolution, and Marine Biology, University of California, Santa Barbara.
- 2009 **B.A.** *cum laude* in Biology, Amherst College, Amherst, MA.

Publications

Peer-reviewed publications

- 2018 CA Murphy, RM Nisbet, P Antczak, N Garcia-Reyero, A Gergs, K Like, T Mathews, EB Muller, D Nacci, A Peace, CH Remien, IR Shultz, **LM Stevenson**, and KH Watanabe. Incorporating sub-organismal processes into dynamic energy budget models for ecological risk assessment. **Integrated Environmental Assessment and Management**, DOI: 10.1002/ieam.4063
- 2017 **LM Stevenson**, AS Adeleye, Y Su, Y Zhang, AA Keller, and RM Nisbet. Remediation of cadmium toxicity by sulfidized nano-iron: The importance of organic material. *ACS nano*, 11(10), 10558-10567.
- 2017 **LM Stevenson**, KE Krattenmaker, E Johnson, AJ Bowers, AS Adeleye, E McCauley, and RM Nisbet. Standardized toxicity testing may underestimate ecotoxicity: Environmentally-relevant food rations increase the toxicity of silver nanoparticles to *Daphnia*. *Environmental toxicology & chemistry*, DOI: 10.1002/etc.3869.
- 2017 T Partridge, M Thomas, BH Harthorn, N Pidgeon, A Hasell, **L Stevenson**, C Enders. Seeing futures now: Emergent US and UK views on shale development, climate change and energy systems. *Global Environmental Change*, 42:1-12.
- 2016 AS Adeleye, **LM Stevenson**, Y Su, RM Nisbet, Y Zhang, and AA Keller. Influence of phytoplankton on fate and effects of modified zero-valent iron nanoparticles. *Environmental science & technology*, 50: 5597–5605.
- 2014 AC Brown, **LM Stevenson**, HM Leonard, K Nieves-Puigdoller, and ED Clotfelter. Phytoestrogens β -Sitosterol and Genistein Have Limited Effects on Reproductive Endpoints in a Female Fish, *Betta splendens*. *BioMed Research International*, vol. 2014, Article ID 681396.

- 2013 **LM Stevenson**, H Dickson, T Klanjscek, AA Keller, E McCauley, and RM Nisbet. Environmental Feedbacks and Engineered Nanoparticles: Mitigation of Silver Nanoparticle Toxicity to *Chlamydomonas reinhardtii* by Algal Produced Organic Compounds. *PLoS ONE*, 8(9): e74456.
- 2011 **LM Stevenson**, AC Brown, TM Montgomery, and ED Clotfelter. Reproductive consequences of exposure to waterborne phytoestrogens in male fighting fish *Betta splendens*. *Archives of Environmental Contamination and Toxicology*, 60:501-510.
- 2010 GM Anhalzer, M Fournier, T O'Connor, **LM Stevenson**, and M Yglesias. Traits for predator selection on *Pentaclethra macroloba* seeds. *American Journal of Undergraduate Research* 8(4):1-8.

Awards, Grants, & Fellowships

- 2014 & 2015 **UCSB Instructional Improvement Grant**, "Population Ecology in the Introductory Biology Laboratories": Part 1 (2014) and Part 2 (2015)
- 2010-2013 **National Science Foundation Graduate Research Fellow**
- 2013 **Young Environmental Scientists Meeting Travel Grant**, Krakow, Poland
- 2012 & 2014 **Worster Summer Research Fellowship Program**, UCSB
- 2012 **International Conference on the Environmental Effects of Nanomaterials Student Travel Award**, Alberta, Canada
- 2010 **The Lloyd I. Rosenblum Memorial Fellowship for Graduate Studies**, Amherst College

Service

- 2018-present Society for Environmental Toxicology and Chemistry (SETAC), Student Advisory Committee
- 2018-present SETAC Ohio Valley Regional Chapter, Member of Board of Directors
- 2017-present SETAC Early Career Committee member, Senior Resource Group Liaison
- 2013-2015 SETAC, North America Student Advisory Council, Outreach Subcommittee chair
- 2013-2015 SETAC, Southern California Regional Chapter, Member of Board of Directors
- 2010-2014 UCSB Ecology, Evolution, and Marine Biology (EEMB) Graduate Student Advisory Committee, Funding Peer
- 2013-present Amherst College, Amherst Pathways Program, Alumni Mentor
- 2013-present The Hockaday School, Girls Advancing in Science, Technology and Mathematics (GAINS) Network, Alumni Mentor
- 2011 UCSB EEMB Departmental Graduate Student Symposium, Coordinator

Teaching and Mentoring Experience

- 2017 **UCSB, Bren School of Environmental Science and Management, Lecturer - Environmental Toxicology (April-June)**
Developed an Environmental Toxicology course for students in the Masters of Environmental Science and Management Program.
- 2010-2016 **UCSB, Nisbet/McCauley Lab, Graduate Student**
Mentored undergraduate lab assistants; all students conducted independent research projects, some of which have resulted in publications.
- 2013-16 **UCSB, Ecological Modeling, Teaching Assistant (January-March)**

- Taught computer laboratory sections (MATLAB) for an upper level undergraduate and graduate course on Ecological Modeling.
- 2015 **Science Buddies Science Fair Project, *Author***
Co-developed and wrote a project based on my dissertation research for non-profit organization that provides free science fair project ideas to build science literacy. Project title: “Looking Downstream: Could Nanosilver in Consumer Products Affect Pond Life?” Online here: <https://goo.gl/doQFwa>.
- 2015 **UCSB, Software Carpentry Bootcamp for R, *Instructor (April)***
Helped organize and taught a two day workshop on R; developed a lesson on Dynamic Models in R. Online here: <https://goo.gl/DOahvn>.
- 2014 & 2015 **UCSB Instructional Improvement Grant**
Received grants to redesign computational ecology exercises of Introductory Biology lab; reworked all lab exercises including coding quantitative models, incorporating data from the scientific literature, and rewriting the lab narrative to include modern day ecological problems and how models can be used to help solve them. Example code and notebook online here: <https://goo.gl/bmF7Lx>.
- 2012-15 **UCSB, Toxics in the Environment, *Invited Lecturer (March)***
Gave invited lecture on environmental effects of nanomaterials on lakes and streams in introduction to ecotoxicology class for multiple terms.
- 2014 **UCSB, Toxics in the Environment, *Reader (January-March)***
- 2012 & 2014 **UCSB, Worster Summer Research Fellowship Program (*June-September*)**
Received Worster Fellowships for two summers, which are awarded to undergraduate-graduate student teams to encourage mentorship.
- 2013 & 2014 **UCSB, Freshmen Summer Start Program, *Invited Lecturer (August)***
Lecture on ecotoxicology and my research to incoming first year students interested in science.
- 2013 **UCSB, Introduction to Ecology, *Teaching Assistant (June-July)***
Taught laboratory/discussion sections for introductory course in Ecology.

Presentations

- 2018 SETAC Europe. Rome, Italy
- 2018 SETAC Ohio Valley Regional Chapter Meeting. Columbus, OH
- 2017 Ecological Society of America. Portland, OR
- 2017 Sustainable Nanotechnology Organization. Los Angeles, CA
- 2016 SETAC Young Environmental Scientists Meeting. Gainesville, FL
- 2015 SETAC. Salt Lake City, UT
- 2014 Democratizing Technologies: Assessing the Roles of NGOs in Shaping Technological Futures. Santa Barbara, CA (Rapporteur)
- 2013 Sustainable Nanotechnology Organization. Santa Barbara, CA (poster)
- 2013 UC CEIN Nanotechnology EH&S Forum. Los Angeles, CA (poster)
- 2013 SETAC Young Environmental Scientists Meeting. Krakow, Poland
- 2012 SETAC. Long Beach, CA
- 2012 International Conference on the Environmental Effects of Nanoparticles and Nanomaterials, Alberta, Canada (poster)