

CURRICULUM VITAE
TAMMI LEE RICHARDSON
January 2022

I. Biographical Information

Address: Dept. of Biological Sciences
University of South Carolina
Columbia, SC 29208

Telephone: (803) 777-2269

E-mail: richardson@biol.sc.edu

Google Scholar: <https://scholar.google.com/citations?user=INRyL3cAAAAJ&hl=en>

ORCID: 0000-0002-0667-3455

Education

1996 Ph.D. (Oceanography), Dalhousie University, Halifax, N.S., Canada

1988 M.Sc. (Biology), University of New Brunswick, Canada

1986 B.Sc. (1st Class Honours Biology), University of New Brunswick, Canada

Professional Experience

Jan. 2021 – present Chair, Dept. of Biological Sciences, UofSC

Jan. 2015 - present Professor, University of South Carolina, Columbia, SC

2011 –2014 Associate Professor, University of South Carolina, Columbia, SC

2005-2010 Assistant Professor, University of South Carolina, Columbia, SC

2000-2004 Assistant Research Scientist, Texas A&M University, College Station, TX

1998-2000 Postdoctoral Research Associate, Institute of Marine Sciences, University of North Carolina, Morehead City, NC

1996-1998 Postdoctoral Fellow, Queen’s University of Belfast, Northern Ireland

Awards and Distinctions

2021 Finalist, Michael J. Mungo Distinguished Professor Award (UofSC)

2020 Finalist, Michael J. Mungo Distinguished Professor Award (UofSC)

2018 College of Arts & Sciences Innovative Teaching Associate (UofSC)

2016 Fellow - Association for the Sciences of Limnology and Oceanography (ASLO)

2015 Michael J. Mungo Undergraduate Teaching Award (UofSC)

2015 “Two Thumbs Up” Award from the Office of Student Disability Services (UofSC)

2014 Finalist, Michael J. Mungo Undergraduate Teaching Award (UofSC)

2011 Breakthrough Rising Star Award (Office of Research, UofSC)

2010 “Two Thumbs Up” Award from the Office of Student Disability Services (UofSC)

2011 Finalist, Michael J. Mungo Undergraduate Teaching Award (UofSC)

1998 Luigi Provasoli Award (Outstanding Paper in the Journal of Phycology)

1997 Irene Manton Prize (Outstanding Student Talk), British Phycological Society, UK

1996 O’Brien Foundation Fellowship, New Brunswick, Canada

1994 Outstanding Student Paper Award, AGU Ocean Sciences Meeting, USA

Professional Affiliations: Association for the Sciences of Limnology and Oceanography, Coastal and Estuarine Research Federation, The Oceanography Society, Phycological Society of America, British Phycological Society

II. Research

Published: (*contribution by a Richardson graduate student or postdoc, † contribution by an undergraduate student).

53. Schomaker, R.A., **T.L. Richardson** and J.L. Dudycha. Consequences of light spectra for pigment composition and gene expression in the cryptophyte *Rhodomonas salina*. Submitted to Environmental Microbiology, 10 January 2022.
52. Swanson, J.A., M.J. Greenwold, **T.L. Richardson**, and J.L. Dudycha. Predicted trade-offs between photosynthetic traits in cryptophyte microalgae. Submitted to Limnology and Oceanography, 4 January 2022.
51. Heidenreich*, K.M. and **T.L. Richardson**. 2020. Photopigment, absorption, and growth responses of marine cryptophytes to varying spectral irradiance. Journal of Phycology 56(2): 507-520; doi.org/10.1111/jpy.12962.
50. Cotti-Rausch*, B.E., M.W. Lomas, E.M. Lachenmyer*, E.G. Baumann, and **T.L. Richardson**. 2019. Size-fractionated biomass and primary productivity of Sargasso Sea phytoplankton. Deep-Sea Research I, DOI: 10.1016/j.dsr.2019.103141.
49. Greenwold, M.J., B.R. Cunningham*, E.M. Lachenmyer, J. Pullman†, **T.L. Richardson** and J.L. Dudycha. 2019. Diversification of light capture ability was accompanied by the evolution of phycobiliproteins in cryptophyte algae. Proceedings of the Royal Society B, 286: 20190655. <http://dx.doi.org/10.1098/rspb.2019.0655>.
48. **Richardson, T.L.** 2019. Mechanisms, pathways, and the role of small phytoplankton in carbon export from the surface ocean. (Invited) Annual Review of Marine Science 11: 57-74. <https://www.annualreviews.org/doi/abs/10.1146/annurev-marine-121916-063627>
47. Faulkner, S.T., C.M. Rekully, E.M. Lachenmyer, E. Kara, **T.L. Richardson**, T.J. Shaw, and M.L. Myrick. 2018. Single-cell and bulk fluorescence excitation signatures of seven phytoplankton species during nitrogen depletion and resupply. Applied Spectroscopy: 2019 March 73(3):304-312. doi: 10.1177/0003702818812090.
46. Cunningham, B.R.* , M.J. Greenwold, E.M. Lachenmyer, K.M. Heidenreich*, A.C. Davist, J.L. Dudycha and **T.L. Richardson**. 2018. Light capture and pigment diversity in marine and freshwater cryptophytes. Journal of Phycology 55: 552-564.
45. Rekully, C.M., S.T. Faulkner, E. Kara, **T.L. Richardson**, T.J. Shaw, and M.L. Myrick. 2018. Asymmetric vs. symmetric filter wheels and associated processing algorithms: Results

- from asynchronous fluorescence imaging photometer measurements of phytoplankton. *Applied Spectroscopy* 73(1): <https://doi.org/10.1177/0003702818792285>
44. MacIntyre, H.L., J.J. Cullen, S. Rastin, M. Waclawik, K.J. Franklin, N. Poulton, L. Lubelczyk, K. McPhee, **T.L. Richardson**, E. Van Meerssche, and B. Petri. 2018. Inter-laboratory validation of the Serial Dilution Culture – Most Probable Number method for enumerating viable phytoplankton. *Journal of Applied Phycology*: <https://doi.org/10.1007/s10811-018-1541-z>
 43. Rekully, C.M., S.T. Faulkner, E.M. Lachenmyer, B.R. Cunningham*, T.J. Shaw, **T.L. Richardson** and M.L. Myrick. 2017. Fluorescence excitation spectroscopy for phytoplankton species classification using an all-pairs method: Characterization of a system with unexpectedly low rank. *Applied Spectroscopy* 72(3), DOI: 10.1177/0003702817741278.
 42. Lawrenz, E* and **T.L. Richardson**. 2017. Differential effects of changes in spectral irradiance on photoacclimation, primary productivity and growth in *Rhodomonas salina* (Cryptophyceae) and *Skeletonema costatum* (Bacillariophyceae) in simulated blackwater environments. *Journal of Phycology* 53: 1241-1254. DOI: 10.1111/jpy.12578
 41. Vernet, M., **T.L. Richardson**, K. Metfies, E-M. Nöthig, and I. Peeken. 2017. Models of plankton community changes during a warm anomaly in Arctic waters show altered trophic pathways with minimal changes in carbon export. *Frontiers in Marine Science* 31 May 2017: <https://doi.org/10.3389/fmars.2017.00160>.
 40. Cotti-Rausch, B.E.* , M.W. Lomas, E.M. Lachenmyer, E.A. Goldman, D.W. Bell*, S.R. Goldberg, and **T.L. Richardson**. 2016. Mesoscale and sub-mesoscale variability in phytoplankton community composition in the Sargasso Sea. *Deep-Sea Research I* 110: 106-122.
 39. Pinckney, J.L. and **T.L. Richardson**. 2016. Phytoplankton biodiversity in the oligotrophic northwestern Sargasso Sea. Chapter in: *Aquatic Microbial Ecology and Biogeochemistry: A Dual Perspective*, edited by P.M. Glibert and T. Kana, Springer-Verlag.
 38. Gordon, A.R., **T.L. Richardson** and J.L. Pinckney. 2015. Ecotoxicology of bromoacetic acid on estuarine phytoplankton. *Environmental Pollution* 206: 369-375.
 37. Tazik, S., M. Pearl, C. Rekully, N. Viole[†], S. DeJong, T. Shaw, **T.L. Richardson**, and M. Myrick. 2015. Focus-independent particle size measurement from streak images: a comparison of multivariate methods. *The Analyst* 140: 1578-1589.
 36. Sassenhagen, I., K. Rengefors, **T.L. Richardson** and J.L. Pinckney. 2014. Pigment composition and photoacclimation as keys to ecological success in *Gonyostomum semen* (Raphidophyceae, Stramenopiles). *Journal of Phycology* 50: 1146-1150.
 35. Pearl, M., J.A. Swanstrom, L. Bruckman, **T.L. Richardson**, T.J. Shaw, H.M. Sosik, and M.L. Myrick. 2013. Taxonomic classification of phytoplankton with multivariate optical computing, Part III: Demonstration. *Applied Spectroscopy* 67 (6): 640-647.

34. Swanstrom, J., L. Bruckman, M. Pearl, E. Abernathy, **T.L. Richardson**, T.J. Shaw, and M.L. Myrick. 2013. Taxonomic classification of phytoplankton with multivariate optical computing, Part II: Design and experimental protocol of a shipboard fluorescence imaging photometer. *Applied Spectroscopy* 67 (6): 630-639.
33. Swanstrom, J.A., L. Bruckman, M. Pearl, M. Simcock, K. Donaldson[†], **T.L. Richardson**, T.J. Shaw, and M.L. Myrick. 2013. Taxonomic classification of phytoplankton with multivariate optical computing, Part I: Design and theoretical performance of multivariate optical elements. *Applied Spectroscopy* 67 (6): 620-629.
32. Goldman, E.A.* , E.M. Smith and **T.L. Richardson**. 2013. Estimation of chromophoric dissolved organic matter (CDOM) and photosynthetic activity of estuarine phytoplankton using a multiple-fixed-wavelength spectral fluorometer. *Water Research* 47: 1616-1630.
31. Lawrenz, E.* , E.M. Smith and **T.L. Richardson**. 2012. Spectral irradiance, phytoplankton community composition, and primary productivity in a salt marsh estuary, North Inlet, South Carolina, USA. *Estuaries and Coasts* 36(2): 347-364.
30. Bruckman, L.S., **T.L. Richardson**, J. A. Swanstrom, K.A. Donaldson, M. Allora, Jr. [†], T. J. Shaw, and M.L. Myrick. 2012. Linear Discriminant Analysis of Single-Cell Fluorescence Excitation Spectra of Five Phytoplankton Species. *Applied Spectroscopy* 60 (1): 60-65.
29. Lawrenz, E.* and **T.L. Richardson**. 2011. How does the species used for calibration affect chlorophyll *a* measurements by *in situ* fluorometry? *Estuaries and Coasts* 34(4): 872-883.
28. Lawrenz, E.* , E.J. Fedewa[†] and **T.L. Richardson**. 2010. Extraction protocols for the quantification of phycobilins in aqueous phytoplankton extracts. *Journal of Applied Phycology* 23(5): 865-871.
27. Lawrenz, E.* , J.L. Pinckney, M.L. Ranhofer*, H.L. MacIntyre and **T.L. Richardson**. 2010. Spectral irradiance and phytoplankton community composition in a blackwater-dominated estuary, Winyah Bay, SC, USA. *Estuaries and Coasts* 33(5): 1186-1201.
26. **Richardson, T.L.**, E. Lawrenz*, J.L. Pinckney, R.C. Guajardo, E.A. Walker[†], H.W. Paerl and H.L. MacIntyre. 2010. Spectral fluorometric characterization of phytoplankton community composition using the Algae Online Analyser[®]. *Water Research* 44:2461-2472.
25. Hill, L.S., **T.L. Richardson**, L.T.M. Profeta, T.J. Shaw, C.J. Hintz, B.S. Twining, E. Lawrenz* and M.L. Myrick. 2010. Construction, figures of merit and testing of a single-cell fluorescence excitation spectroscopy system. *Review of Scientific Instruments* 81 (1): 013103.
24. MacIntyre, H.L., E. Lawrenz* and **T.L. Richardson**. 2010. Taxonomic discrimination of phytoplankton by spectral fluorescence. Chapter 7 in: *Chlorophyll *a* fluorescence in aquatic sciences: methods and applications* (Eds. Suggett DJ, Prasil O, Borowitzka MA). Springer.

23. Ranhofer, M.L.* , E. Lawrenz* , J.L. Pinckney, C.R. Benitez-Nelson and **T.L. Richardson**. 2009. Cell-specific alkaline phosphatase expression by phytoplankton from Winyah Bay, South Carolina, USA. *Estuaries and Coasts* 32:943-957.
22. **Richardson, T.L.** and G.A. Jackson. 2007. Small phytoplankton and carbon export from the surface ocean, *Science* 315: 838-840.
21. **Richardson, T.L.**, J.L. Pinckney, E.A. Walker[†] and D. Marshalonis. 2006. Photopigment radiolabelling as a tool for determining *in situ* growth rates of the toxic dinoflagellate *Karenia brevis* (Dinophyceae). *European Journal of Phycology*, 41(4): 415-423.
20. **Richardson, T.L.**, G.A. Jackson, M.R. Roman, and H.W. Ducklow. 2006. Spatial and seasonal patterns of carbon cycling through planktonic food webs of the Arabian Sea determined by inverse analysis. *Deep-Sea Research II*, 53: 555-575.
19. Hood, R. R., E.A. Laws, R.A. Armstrong, N.R. Bates, C.W. Brown, C.A. Carlson, F. Chai, S.C. Doney, P.G. Falkowski, R.A. Feely, M.A.M. Friedrichs, M.R. Landry, J.K. Moore, D.M. Nelson, **T.L. Richardson**, B. Salihoglu, M. Schartan, D.A. Toole, and J.D. Wiggert. 2006. Functional group modelling: Progress, Challenges, and Prospects. *Deep-Sea Research II* 53: 459-512.
18. Daniels, R.M., **T.L. Richardson** and H.W. Ducklow. 2006. Food web structure and biogeochemical processes during oceanic phytoplankton blooms: An inverse model analysis. *Deep-Sea Research II* 53: 532-554.
17. See, J.H., L. Campbell, **T.L. Richardson**, J.L. Pinckney, and R. Shen. 2005. Combining new technologies for determination of phytoplankton community structure in the northern Gulf of Mexico. *Journal of Phycology* 41 (2): 305-310.
16. Breed, G., G.A. Jackson, and **T.L. Richardson**. 2004. Sedimentation, carbon export, and food web structure in the Mississippi River plume described by inverse analysis. *Marine Ecology Progress Series* 278: 35-51.
15. **Richardson, T.L.** and J.L. Pinckney. 2004. Monitoring of the toxic dinoflagellate, *Karenia brevis* (Dinophyta), using gyroxanthin-based detection methods. *Journal of Applied Phycology*, 16(4): 315-328.
14. **Richardson, T.L.**, G.A. Jackson, H.W. Ducklow, and M.R. Roman. 2004. Planktonic food webs of the equatorial Pacific at 0°, 140°W: a synthesis of EqPac time-series carbon flux data. *Deep-Sea Research I* 51(9): 1245-1274.
13. **Richardson, T.L.**, G.A. Jackson, and A.B. Burd. 2003. Planktonic food web dynamics in two contrasting regions of Florida Bay, US. *Bulletin of Marine Science* 73(3): 569-591.
12. Bergmann, T., **T.L. Richardson**, H.W. Paerl, J.L. Pinckney, and O. Schofield. 2002. Synergy of light and nutrients on the photosynthetic efficiency of phytoplankton populations from the Neuse River Estuary, North Carolina. *Journal of Plankton Research* 24(9): 923-933.

11. **Richardson, T.L.**, J.L. Pinckney, and H.W. Paerl. 2001. Responses of estuarine phytoplankton communities to nitrogen form and mixing using microcosm bioassays. *Estuaries* 24 (6A): 828-839.
10. Pinckney, J.L., H.W. Paerl, P.A. Tester, and **T.L. Richardson**. 2001. The role of nutrient loading and eutrophication in estuarine ecology. *Environmental Health Perspectives* 109: 699-706.
9. Pinckney, J.L., **T.L. Richardson**, D.F. Millie and H.W. Paerl. 2001. Application of photopigment biomarkers for quantifying microalgal community composition and *in situ* growth rates. *Organic Geochemistry* 32: 585-595.
8. Paerl, H.W., J.D. Bales, L.W. Ausley, C.P. Buzzelli, L.B. Crowder, L.A. Eby, J. Fear, M. Go, B. Peierls, **T.L. Richardson**, and J.S. Ramus. 2001. Ecosystem impacts of 3 sequential hurricanes (Dennis, Floyd, and Irene) on the US's largest lagoonal estuary, Pamlico Sound, NC. *Proceedings of the National Academy of Sciences* 98(10): 5655-5660.
7. Paerl, H.W., C.P. Buzzelli, M. Go, B.L. Peierls, R.A. Luettich, **T.L. Richardson**, J.S. Ramus, L.E. Eby, L.B. Crowder, L.W. Ausley, J. Overton and J.D. Bales. 2001. Water quality and fisheries habitat changes in the Pamlico Sound after three hurricanes: A short-term and long-term perspective. Pp. 255-263, In, J.R. Maiolo, J.C. Whitehead, M. McGee, L. King, J. Johnson and H. Stone (Eds.), *Facing Our Future: Hurricane Floyd and Recovery in the Coastal Plain*. Coastal Carolina Press, Wilmington, NC.
6. Paerl, H.W., J.D. Bales, L.W. Ausley, C.P. Buzzelli, L.B. Crowder, L.A. Eby, M. Go, B. Peierls, **T.L. Richardson**, and J.S. Ramus. 2000. Hurricanes' hydrological ecological effects linger in major US Estuary. *EOS, Transactions of the American Geophysical Union* 81(40): 457, 459, 462.
5. **Richardson, T.L.**, C.E. Gibson, and S.I. Heaney. 2000. Temperature, growth and seasonal succession of phytoplankton from Lake Baikal, Siberia. *Freshwater Biol.* 44(3): 431-440.
4. **Richardson, T.L.**, J.J. Cullen, D.E. Kelley, and M.R. Lewis. 1998. Potential contributions of vertically migrating *Rhizosolenia* to nutrient cycling and new production in the open ocean. *J. Plankton Research* 20 (2): 219-241.
3. **Richardson, T.L.**, A.M. Ciotti, J.J. Cullen, and T.A. Villareal. 1996. Physiological and optical properties of *Rhizosolenia formosa* (Bacillariophyceae) in the context of open ocean vertical migration. *J. Phycol.* 32: 741-757.
2. **Richardson, T.L.** and J.J. Cullen. 1995. Changes in buoyancy and chemical composition during growth of a coastal marine diatom: ecological and biogeochemical consequences. *Mar. Ecol. Prog. Ser.* 128: 77-90.
1. **Richardson, T.L.** and B.M. MacKinnon. 1990. *Heligmosomoides polygyrus*: Effect of exogenous steroid hormones on egg output *in vitro*. *J. Helminthol.* 64: 123-132.

Conference Presentations (Last 5 years only)

Presenter is underlined. * Contribution by a Richardson graduate student, † contribution by

an undergraduate student.

Richardson, T.L., S.T. Faulkner, and M.L. Myrick. Phytoplankton Community Composition by Fluorescence Imaging Photometry: Nanophytoplankton and Nitrogen. Poster and lightning talk at the Ocean Carbon and Biogeochemistry virtual meeting, June 2021.

Merritt, K.A., T.L. Richardson, and J.L. Dudycha. Growth responses of marine cryptophytes after experimental evolution in four light environments. Video presentation at the Society for the Study of Evolution virtual meeting, June 2021

Merritt, K.A.*, and T.L. Richardson. Changes in cryptophyte phycobiliprotein absorption spectra under varying light quality. Video presentation at the Phycological Society of America virtual meeting, July 2021

Richardson, T.L. 2020* Cryptophyte Phycobiliproteins. Invited presentation at the Chemistry and Biology of Tetrapyrroles Gordon Research Conference. * Postponed to 2022 due to Covid-19.

Richardson, T.L., B. Cunningham, M. Greenwold, K.M. Heidenreich*, A. Davis†, and J.L. Dudycha. The hidden secrets of cryptophyte algae I: an exploration of phylogenetic and functional diversity in light capture ability. Oral presentation at the Phycological Society of America meeting, Vancouver, BC, July 2018.

Heidenreich, K.M.*, R.A. Schomaker, T.L. Richardson, and J.L. Dudycha. The hidden secrets of cryptophyte algae II: growth rates of marine cryptophytes under varying spectral irradiance. Oral presentation at the Phycological Society of America meeting, Vancouver, BC, July 2018.

Schomaker, R.A., K.M. Heidenreich*, T.L. Richardson, and J.L. Dudycha. The hidden secrets of cryptophyte algae III: gene expression in *Rhodomonas salina* in response to varying spectral irradiance. Oral presentation at the Phycological Society of America meeting, Vancouver, BC, July 2018.

Richardson, T.L., K.M. Heidenreich*, M. Greenwold, B. Cunningham, R. Schomaker, J. Swanson, and J.L. Dudycha. Tales of the cryptophytes: acclimation to variations in underwater spectral irradiance. Poster presentation at the Ocean Carbon and Biogeochemistry Workshop, Woods Hole, MA, June 2018.

Greenwold, M., B.R. Cunningham, E.M. Lachenmyer, T.L. Richardson, and J.L. Dudycha. Evolutionary shifts in photosynthetic pigment composition facilitated functional diversity in cryptophytes. Oral presentation at the Evolution Conference, Portland, OR, June 2017.

Richardson, T.L. Carbon fluxes in ocean food webs: how phytoplankton community composition affects trophic dynamics and export. Invited talk at the Winter Meeting of the British Phycological Society, Bangor, Wales, UK. January 2017.

Research Seminars (Last 5 years)

“The Colorful World of Cryptophyte Microalgae”, Biology Department seminar, University of Wisconsin-Milwaukee, 3 December 2021.

“Phytoplankton community composition, food webs, and carbon export from the surface ocean”, Department of Oceanography, Texas A&M University, College Station, TX, April 2019.

“Carbon fluxes in ocean food webs: how phytoplankton community composition affects trophic dynamics and export”, Department of Biology, Salisbury University, Salisbury, Maryland, March 2017.

III. Teaching and Mentoring

Classroom

BIOL/MSCI 450 (Biological Oceanography)	Fall semester (starting 2020)
BIOL/MSCI 750 (Advanced Biol Oceanography)	Spring semester, odd years
BIOL/MSCI 627 (Marine Phytoplankton)	Spring semester, even years
MSCI 102 (The Living Ocean)	2005 to 2018
MSCI 311 (Biology of Marine Organisms)	2018 to 2020

Current Undergraduate Researchers in my Lab (of 63 in total since 2005)

Camille Wheeler (Magellan grant holder)
Ian Jin (SCHC; Research Assistant; SURF grant holder)
Marshall Coppage
Makenna Thompson

Other Undergraduate Mentoring

Academic Advisor for 21-35 Marine Science undergraduate students (varied with year; I was released from advising when I started as Chair in 2021)

NOAA Hollings Scholarship Faculty Advisor (National Fellowships & Scholar Programs; 2018-2021)

Faculty Advisor for the Center for Integrated and Experiential Learning (formerly USC Connect; 2019-2021)

(Other undergraduate student activities can be found in the Service section of this CV)

Mentoring-related grant:

Research Experiences for Undergraduates (REU) Site: Marine Biogeochemistry at the University of South Carolina”, T.L. Richardson (PI), NSF GEO, 09/01/12 – 08/31/15; \$357,960.

Current Graduate Students

Kristiaan A. Merritt (Ph.D., Biological Sciences)

Graduate Students Completed & Current Occupation

Kristin M. Heidenreich (M.S. 2018) – Curator, National Center for Marine Algae & Microbiota (Bigelow Laboratory for Ocean Sciences)

Bridget E. (Bachman) Cotti-Rausch (Ph.D. 2017) – Environmental Protection Specialist, US EPA

Douglas W. Bell (Ph.D. 2017) – Data and Budget Coordinator, National Sea Grant (NOAA)

Lauren Hehman (M.S. 2014) – Senior Research Associate, Novozymes, Raleigh, NC

Eric Lachenmyer (M.S. 2014) – Brewer, River Rat Brewery, Columbia, SC

Emily A. Goldman (now Baumann) (M.S. 2011) – Laboratory Manager, School of the Earth, Ocean & Environment

Evelyn Lawrenz (Ph.D. 2011) – Research Scientist at the Institute of Microbiology, Academy of Sciences of the Czech Republic, Třeboň, CZ

Melissa L. Ranhofer (Ph.D. 2009) – Instructor, Environmental Science, Furman University

Jessica L. Shannon (now Kennedy) (M.S. 2008) – Environmental Scientist, McCormick-Taylor, Inc., Columbia, SC

Postdoctoral Scholars

Brady Cunningham, Ph.D. – Scientist at the CDC, Atlanta, GA

Graduate Student Committees

Current

Rachel Schomaker (PhD, Biological Sciences)

Jake Swanson (PhD, Biological Sciences)

Elizabeth Bair (PhD, Arnold School of Public Health)

Nayan Mallick (MS, Biological Sciences)

Alex Barth (PhD, Biological Sciences)

Zechariah Kitzhaber (PhD, Chemistry & Biochemistry)

Cassidy Crandell (PhD, Chemistry & Biochemistry)

Caitlyn English (PhD, Chemistry & Biochemistry)

Joshua Williams (MS, Chemistry & Biochemistry)

Completed

Lauren Faulk (MS, Marine Science)

Amjed Albresm (PhD, Arnold School of Public Health)

Eilea Knotts (PhD, Biological Sciences)

Mustafa Gul (PhD, Marine Science, 2019)

Brendan Turley (PhD, Marine Science, 2019)

Cameron Rekully (PhD, Chemistry, 2018)

Stefan Faulkner (PhD, Chemistry, 2018)

Blaire Umhau (PhD, Marine Science, 2018)

Elise Van Meerssche (PhD, Biological Sciences, 2018)

Jamie Clark (MS, Marine Science, 2018)

Michael Opiekun (MS, Marine Science, 2018)

Shawna Tazik (PhD, Chemistry, 2017)

Meryssa Downer (MS, Marine Science, 2016)

Brady Cunningham (PhD, Marine Science, 2016)

Christopher Brandon (PhD, Biological Sciences, 2015)

Annie Opseth (MS, Marine Science, 2014)

Joseph Swanstron (PhD, Chemistry, 2014)

Nicholas Colvard (PhD, Biological Sciences, 2013)

Isaac Hagenbuch (PhD, Biological Sciences, 2013)

Leslie Muggelberg (MS, Biological Sciences 2013)

Si Chen (PhD, Marine Science, 2013)

Sharmila Pal (MS, Marine Science, 2013)

Elizabeth Abernathy (MS, Chemistry, 2013)
Laura Hill (PhD, Chemistry 2012)
Chris Burrell (MS, Geology, 2012)
Allison Smith (PhD, Biological Sciences, 2011)
Marcie Eaddy (PhD, Biological Sciences, 2011)
Daliangelis Nunez-Milland (PhD, Chemistry, 2011)
Emily Sekula Wood (PhD, Geology, 2011)
Michael Hook (MS, Environmental Science/MEERM, 2011)
Sierra Jones (PhD, Biological Sciences, 2010)
Michelle Gierach (PhD, Marine Science, 2010)
Karl Kaiser (PhD, Marine Science, 2010)
Daniel Marshalonis (PhD, Biological Sciences, 2009)
Haiwei Luo (PhD, Biological Sciences, 2009)
Suzanne Dubois (MS, Geology, 2009)
Gabrielle Lyons (MS, Geology, 2009)
Jennifer Davis (PhD, Marine Science, 2008)
Jean-Marie Buschur (MS, Marine Science, 2008)
Anthony Trimboli (PhD, Chemistry, 2008)
Alyce Lee, (PhD, Oceanography – Texas A&M University, 2007)

IV. Professional Development Activities

Current: SEC Academic Leadership Development Program – one of 4 faculty from UofSC selected for this program in 2021/22

Completed:

2021 Univ. of Florida SEC Certificate in Multicultural Mentoring program
2020 Anti-Racism In and Out of the Classroom – Online course, Education Admin
2018-2019 UofSC Pipeline for Academy Leaders program

V. Service

Professional Service

Current:

Advisory Board – National Science Foundation – Geoscience Directorate
Associate Editor, Limnology & Oceanography Methods
Editorial Board, Journal of Plankton Research
Manuscript reviewer (*pro re nata*) for: Applied and Environmental Microbiology, Biogeosciences Discussions, Continental Shelf Research, Deep-Sea Research Part I and II, Estuaries and Coasts, Estuarine and Coastal Shelf Science, European Journal of Phycology, Freshwater Biology, Geophysical Research Letters, Harmful Algae, Journal of Phycology, Journal of Experimental Marine Biology and Ecology, Journal of Plankton Research, Limnology and Oceanography, L&O Methods, Marine Ecology Progress Series, Nature Communications, Nature Geoscience, Nature Reviews of Microbiology, Optics Express, PLoS One, Water Research.

Proposal reviewer (*pro re nata*) for: National Science Foundation (OCE: Biological Oceanography, Chemical Oceanography, Ocean Technology and Interdisciplinary Coordination; BIO: Division of Environmental Biology), NASA (Ocean Biology and Biogeochemistry Program), NOAA (Ecology and Oceanography of Harmful Algal Blooms), US-Israel BiNational Science Federation, Natural Sciences and Engineering Research Council (Canada), Natural Environment Research Council (UK).

Completed (Last 5 years only):

University - National Oceanographic Laboratory System (UNOLS) Council (2013 to 2019)
National Science Foundation OCE Committee of Visitors 2019
Panel Member, California Sea Grant Proposal Review, 2014 to 2018
Associate Editor, Continental Shelf Research
Associate Editor, Global Biogeochemical Cycles
Co-Chair, 2016 Summer Meeting of the Association for the Sciences of Limnology and Oceanography (ASLO), Santa Fe, New Mexico.

University Service

Current:

Chair, Department of Biological Sciences
Faculty Advisor for NSF GRFP Applicants - Office of Fellowships and Scholar Programs
Facilitator, Junior Faculty Development Program (College of Arts and Sciences)

Completed:

Associate Chair, Department of Biological Sciences
Member, Department Advisory Committee
Search Committee member, Marine Population Dynamics faculty search (SEOE)
Search Committee member, Evolutionary Biology faculty search (BIOL)
Faculty Advisor for Students Engaged in Aquatic Sciences (SEAS) undergraduate student group
Presidential Advisory Committee for EOP, Provost's Office
Member, University Committee on Tenure & Promotion
Program Faculty Advisory Committee representative for MSCI (SEOE)
Chair, Aquatic Ecology Faculty Search Committee (BIOL)
Member & Chair, Mungo Undergraduate Award Selection Committee
Udall Scholarship Committee, Office of Fellowships and Scholar Programs, USC (2014)
Faculty Senator for the Dept. of Biological Sciences (2010-2013)
McNair and Carolina Scholars Selection Committee (2009-2017)
First Year Scholar Mentor (OFSP) (Stephen Timko 2009, Hali Kerr 2010, Riley Brady 2012, Jamie Durden 2013, Kayla Gardner 2014, Casey Brayton 2016, Kylee Yturralde 2017, Sophie Henry 2020.

(End of CV)