

## Astrid Schnetzer

### EDUCATION

- 2001 Ph.D. in Marine Biology. University of Vienna, Austria  
 1996 M.S. in Zoology / Ecology. University of Vienna, Austria

### PROFESSIONAL EXPERIENCE

- 2024 – present Director of North Carolina’s Center for Oceans and Human Health, NC Center for Coastal Algae, People and Environment
- 2024 - Professor, North Carolina State University
- 2017 - 2024 Associate Professor with tenure, North Carolina State University
- 2019 - 2023 Associate Department Head, MEAS
- 2016 - 2019, 2021 MEAS Honors Program Director
- 2012 - 2017 Associate Professor tenure-track, North Carolina State University
- 2006 - 2012 Research Assistant Professor, University of Southern California
- 2002 - 2005 Postdoctoral Research Associate, University of Southern California

### FUNDING

#### CURRENT GRANTS

- NSF/NIEHS - Centers for Oceans and Human Health 4: Impacts of Climate Change on Oceans and Great Lakes (COHH4): \$ 6,913,382 - North Carolina Center for Coastal Algae, People, and Environment (NC C-CAPE), **Director/Lead PI** 2024-2029
- Center for Human Health and Environment Pilot Program (CHHE): \$50,000 - Toxin Mixtures in Coastal Ecosystems and Accumulation in Farmed Shellfish, **Co-Investigator** with Ben-Horin, T. and Belcher S., 2023-2024
- North Pacific Research Board: \$30,955 - Pelagic-benthic Decoupling? Ecosystem Restructuring in the Northern Bering and Chukchi Seas, **Lead PI**, 2022 – 2025
- Alaska State Funding: \$19,340 - Building cyanotoxin analysis capacity at the Native Village of Kotzebue. **CoPI** with A. Whiting, Director of the Native Village of Kotzebue (Lead) and A. Subramaniam. 2023 – 2025.
- NOAA Ocean Acidification Program (GOMECC-4): \$28,906 - Evaluation of OA impacts to plankton and fish distributions in the Gulf of Mexico during GOMECC-4 with a focus on HAB-interactions (Bio-GOMECC-4), **Lead PI**, 2022 – 2024, non-cost extension
- NOAA Ocean Acidification Program (GOMECC-5): \$ 99,814- Characterizing plankton dynamics on GOMECC-5 to improve understanding of regional OA impacts on ecosystem productivity, food webs, and carbon export in the Gulf of Mexico. **Lead PI**, 2024 – 2026

#### RECENT GRANTS

- NC Sea Grant/ Community Collaborative Research Grant (CCRG): \$25,000 - Spatiotemporal patterns of algal toxin contamination in juvenile fish across Albemarle Sound and its tributaries, **Lead PI**, 2023-2024

- 2019 – 2023: UNC Chapel Hill / NC Policy Collaboratory: \$272,000 - Cyanotoxin presence and year-round dynamics in Falls Lake, North Carolina, **LeadPI**,
- Center for Human Health and Environment Pilot Program (CHHE): \$38,000 - Cyanotoxin exposure from shellfish consumption in NC coastal waters, **LeadPI** with Ben-Horin, T., 2021-2023
- NC Sea Grant/ Community Collaborative Research Grant (CCRG): \$24,980 - Food Web Transfer of Cyanobacterial Toxins in the Chowan River and western Albemarle Sound, North Carolina, **LeadPI**, 2019 - 2020
- NSF/ RAPID: \$199,782 - Response of phyto-, zoo-, and ichthyoplankton assemblages to a hurricane-induced historic floodwater plume: food web regime shifts in a subtropical, pelagic environment. **CoPI** with Robinson K. and Stauffer B. (UL Lafayette) and Geist S. (Texas A&M), 2017-2018
- North Pacific Research Board/NOAA: \$131,512 - Microzooplankton biomass and grazing rates on Arctic Program Cruises. **CoPI** with M. Lomas (Bigelow Lab for Ocean Sc), J. Krause (Dauphin Island Sea Lab) – 2016-2019
- Chancellor’s Innovation Fund: \$75,000 – Application of novel reagents for detection and quantification of the environmental toxin BMAA in humans diagnosed with ALS. **CoPI** with D. Muddiman and P. Loziuk (NCSU) - 2017-2018
- NSF/Chemical Oceanography: \$ 568,888 - Collaborative Research: Planktonic Sources of Chromophoric Dissolved Organic Matter in Seawater. **CoPI** with C. Osburn (NCSU), Thomas Bianchi (UF) and Kai Ziervogel (UNC Chapel Hill) - 2015-2019
- Urban Water Consortium (UWC) Grant: \$ 143,502 - Cyanobacteria Blooms in North Carolina Lakes and Reservoirs: Examining Drivers of Bloom Patterns and Testing for Cyanotoxin Presence. **LeadPI** – 2016-2018

## TEACHING

2015 - present F	Instructor: Biological Oceanography (MEA 449/549, NCSU)
2013 - present Su	Co-Instructor: Field-Investigations of Coastal Processes (MEA459, NCSU)
2023, 2024	Guest Lecture for The Many Faces of Water (BSC 295)
2021, 2022	Guest Lecture for Graduate Seminar (MEA601)
2020 - present Sp	Lab Contributions to Introduction to Coastal Environments Lab (MEA251)
2018 - 2019 Su	Co-Coordinator: Field-Investigations of Coastal Processes
2013 - 2018 F	Instructor: Marine Biology undergraduate course (MEA220, NCSU)
2019	Guest Lectures in Energy and Environment (ES300) and Conservation Biology in Practice (FW333)
2019 F	Co-Instructor: Marine Biology undergraduate course (MEA220, NCSU)
2017 - 2018 Sp	Co-Instructor: Junior Seminar in MEAS (MEA 495, NCSU)
2017	Guest Lecture in Energy and Environment (ES300)
2017 F	Co-Instructor: Exploring the Environment (ENV101, NCSU)
2015, 2016 Sp	Co-Instructor: Ecology of Coastal Resources (MEA 469, NCSU)
2014 Sp	Instructor: Marine Plankton Ecology graduate course (MEA752, NCSU)
2010, 2011	Guest Lecturer & Labs: Biological Oceanographic Instrumentation (USC)
2010	Instructor: Undergraduate Research Course ‘Oceans in a Changing World’; developed and taught together with W. Ziebis, USC Wrigley Institute for Environmental Sciences, Catalina
2007, 2009	Instructor: Advanced Graduate Seminar in Plankton Biology with D. Caron & K. Heidelberg, USC

2007, 2008, 2010	Guest Lecturer: Advanced General Biology: Organismal Biology and Evolution, USC
2001	Instructor: Biological Oceanography with M. Lomas, Bermuda Institute of Ocean Sciences (BIOS; formerly the Bermuda Biological Station for Research or BBSR)
1999, 2000	Teaching Assistant for Biological Oceanography (BIOS)
1999	Teaching Assistant for Marine Microbial Ecology: Molecular Ecology and Biogeochemistry (BIOS)
1999	Teaching Assistant for Marine Microbial Ecology (BIOS)
1994, 1995, 1996	Teaching Assistant for Field Course in Marine Ecology in Rovinj (Croatia), University of Vienna

## MENTORING

### Graduate Mentor (NCSU)

#### Current

- **Lucy Roussa**, PhD. 2022 – current, Plankton Community Structure and Environmental Gradients within the Gulf of Mexico, 2017 and 2021  
- Graduate Provost Fellow
- **Will McClure**, MS. 2022 – current, Copepod-Protistan Trophic Interactions across the Gulf of Mexico

#### Former

- **Miranda Irby**, Ph.D. awarded 2024, Protistan Community Structure and Abundance Patterns in the Northern Bering and Chukchi Seas
- **Pierce Emily**, Ph.D. awarded 2024, Investigating Spatiotemporal Dynamics of Harmful Algal Blooms and their Associated Toxins in Aquatic Systems in North Carolina -- Graduate Provost Fellow
- **Anderson Madeline**, MS. Awarded 2022, Co-occurrence of freshwater and marine phycotoxins: a record of microcystin and domoic acid in Bogue Sound, North Carolina (2015 to 2020) - SE CASC Global Change Fellow
- **Gabrielle Corradino**, Ph.D. awarded 2020, Tiny but Mighty: The Characterization and Ecology of a Heterotrophic Nanoflagellate from the Coastal Water of North Carolina. - SE CASC Global Change Fellow, NatGeo Explorer, Xi Sigma Fellow
- **Aubree Szczepanski**, M.S. awarded 2019, Impact of Copepod Grazing on Coastal Microplankton Assemblages in the Northwestern Gulf of Mexico.
- **Daniel Wiltsie**, M.S. awarded 2017, Spatiotemporal Trends in Phytoplankton Community Shifts and Toxin Presence in Jordan Lake, North Carolina. - NC Sea Grant Graduate Fellow
- **Joseph Bursey**, M.S. awarded 2016, Protistan-copepod Trophic Interactions in Bogue Sound, NC.
- **Robert Duke**, M.S. awarded 2014, Phytoplankton-Oyster Trophic Dynamics in North Carolina Estuary.

#### Technicians Supervised:

- **Marco Valera**, 2017 - 2021
- **Barrett Rose**, 2023 –
- **Kelly Fawcett**, 2024

**Graduate Advisory Committees**

A. Brym, MS, 2012, Y. Li, PhD, 2012, D. McVeigh, PhD, 2016, D. Lichti, PhD ECU, 2018, K. Theuerkauf, MS, 2017, L. McGee, MS, 2017, A. Mangot, MS, 2018, J. Smithheart, MS, 2018, R. Taylor, PhD, 2018, K. Christianson, MS 2019, R. Venezia, MS 2019, Y. Han, PhD, 2020, R., Sussman, MS, 2021, Kathryn Rende, PhD (minor in Edu), 2021, Hans Prevost, MS ULL, MS, 2022, N. Curtis, MS, 2021, L. McGee, MS, 2017, Gulce Kurtay, PhD ULL, 2023, Joel Sanchez, PhD, 2023, Kalle Simpson, MS, 2024, Hwa Huang, PhD, 2022 – , N. Curtis, PhD, 2022 – , Emily Havard, MS, 2024, Rachel Alcorn, PhD, 2023 – , Tessa Rock, MS ULL, 2023 – Rhiannon Moore, PhD, 2024 -

**Co-Mentor**

Kelly Koehler, T35/Interdisciplinary Biomedical Summer Research, Training Program Fellowship in the NC State CVM Veterinary Scholars Program, Summer 2024

**Undergraduate Research Mentor in Plankton Ecology Lab (NCSU)**

- 36 Clara Kintner (2023 - 2024): NCSU Provost Fellowship
- 35 Madison Sholes (2023 - 2024): MEA493, NCSU Provost Fellowship
- 34 Barrett Rose (2022 - 2023): NCSU Provost Fellowship
- 33 Kaitlin Litwin (2022 - 2023): MEA493, NCSU Provost Fellowship
- 32 Bailee Porter (2022 - 2023): MEA493, OUR research grant
- 31 Angelina Gonzalez (2022 - 2023): MEA493, workstudy
- 30 Kirsten Keleher (2021 - 2022): MEA493, capstone project, OUR Grant Fellowship
- 29 Will McClure (2021 - 2022): MEA493, NCSU Provost Fellowship
- 28 Natalie Leger (2020 - 2021): work study
- 27 Blain Baugus (2020): Pack Promise Program
- 26 Michaela Parker (2020): Pack Promise Program
- 25 Kirsten Boleyn (2019 - 2020): volunteer, NCSU Provost Fellowship
- 24 Emily Pierce (2019 - 2020): volunteer
- 23 Madeleine Anderson (2019 - 2020): volunteer, MEA493
- 22 Aidan Smith (2019 - 2020): volunteer, MEA493, NCSU Sea Grant undergrad support
- 21 Emily Griffith (2019 - 2020): volunteer, MEA493, NCSU Provost Fellowship
- 20 Riley Zoldi (2019): MEA493
- 19 Allen Moore (2018 - 2019): volunteer, MEA493
- 18 Miranda Irby (2018 - 2019): volunteer, NCSU Provost Fellowship, MEA493
- 17 Nollynn Powell (2017 - 2019): NCSU Provost Fellowship; MEA493
- 16 Cassie Skrutowski (2017): volunteer, AEC492
- 15 Brooke Barber (2017): Honors research fellow, MEA493
- 14 Mackenzie Fiss (2017 - 2018): volunteer, NSF REU undergraduate support
- 13 Victoria Guitarte (2016 – 2017): NC Sea Grant Research Fellow
- 12 Brendan Boyle (2017): volunteer, BIO493
- 11 Kendelle Cooper (2016): volunteer, Honors MEA220
- 10 Alexandra Gizzi (2016 – 2017): volunteer, NCSU Provost Fellowship
- 9 Madeleine Guyant (2015 - 2016): NSF REU undergraduate support
- 8 Jared Everson (2015 - 2016): volunteer, MEA493
- 7 Maggie Fuentes (2014 - 2015): volunteer, AEC492
- 6 Robert Lampe (2014 - 2015): NCSU DASA undergraduate fellowship

- 5 Stephanie Wenclawski (2012 - 016): Park fellow, MEA 498
- 4 Tori Jefferson (2013 – 2015): NCSU DASA, ACCIAC and NC Sea Grant fellowships
- 3 Alison Fowler (2013- 2016): NCSU DASA and NSF REU undergr. Support, MEA493
- 2 Eileen Gu (2013 – 2016): Wise fellowship, NCSU Provost fellowship
- 1 Adam Stewart (2013): volunteer

### Undergraduate Students Recruited into MEAS Honors Program (NCSU 2016 – 2019, 2021)

K. Christianson, E. Scott, J. LaFond, J. Harker, M Cowan, S. Bryant, C. Ring, B. Brooke, M. Fizz, L. Lovell, A. Elkins, J. Golden, D. Hueholt, L. Hochstatter, M. Irby, J. Spore, A. Gooch, S. Menten, M. Diard, G. Hopkins, A. Teergarden, R. Patel, M. Poovey, C. Branan, C. Smith, K. Tess, Z. Militello, J. Reimers, K. Ransdell, M. Arena, A Toman, A. Benz, S. Kuzneski, J. Fritz, A. Lyne, K. Cherry, A. Besecker, K. Litwin, G. Thompson

### Peer-Reviewed Manuscript in Preparation (6):

\*= graduate, \*\* = undergraduate, # = corresponding author

53. Gonzaleza S., Nielsen J.M., Eisner L.S., Hopcroft R., Hart M., Kimmel D.G., Logerwell E., Lomas M.W., **Schnetzer A.** and Thorson J.T. Planktonic associations in the Northern Bering and Chukchi Seas in the warm period of 2017-2019 – Deep Sea Research II
52. #Ben-Horin T., **Schnetzer A.**, Simpson K. and \*Madeline Anderson. Variation in algal toxins bioaccumulating in oysters cultured across diverse coastal sites in North Carolina – Estuaries and Coasts
51. \*Mangot A., \*Camacho M., **Schnetzer A.**, Obenour DR., and #Aziz TN. Effects of Vertical Mixing on Phytoplankton Communities in a Shallow, Turbid Water Column Experiment - ASCE's Journal of Environmental Engineering
50. \*Szczepanski A. and #**Schnetzer A.** Copepod-microplankton Dynamics in the Northern Gulf of Mexico – Marine Ecology Progress Series
49. #**Schnetzer A.**, Valera M. and Godwin C. Food Web Transfer of Cyanobacterial Toxins in the western Albemarle Sound, North Carolina – Toxins

### Peer-Reviewed Manuscripts Submitted

48. Anderson S.R., Silliman K., Barbero L., Gomez F.A., Stauffer B.A., **Schnetzer A.**, Kelble C.R., and Luke R. Thompson (*submitted*). Assessing the effects of warming and carbonate chemistry parameters on marine microbes in the Gulf of Mexico through basin-scale DNA metabarcoding - Science Advances
47. Cutts, B. B., Osia, U., Bray, L. A., Harris, A. R., Long, H. C., Goins, H., McLean, S., MacDonald Gibson, J., Ben-Horin, T., & Schnetzer, A. (*in review*). Shifting power: Data democracy in engineering solutions.
46. \*Corradino G. and **Schnetzer A.** (*in revision*) The Impact of Diet and Temperature on Growth and Grazing of a Heterotrophic Nanoflagellate – Journal of Plankton Research
45. Hong S., **Schnetzer A.**, Lavoine N., Eggleston D., and #Lucia L. (*submitted*) Innovating Environmentally Sustainable Materials Platforms by Harnessing Coastal Marine Tunicates: An Interdisciplinary Perspective – Nature Sustainability
44. \*Pierce E., #**Schnetzer A.**, Valera M., Karl C, Vander Borgh M. and Godwin C. (*in review*) Unprecedented toxic bloom events in 2019 in the Chowan River, in North Carolina: An examination of microcystin congener profiles and bacterial species composition – Harmful Algae

### Peer-Reviewed Manuscripts Published:

43. \*Pierce E., #**Schnetzer A.** (2023) Microcystin Concentrations, Partitioning, and Structural Composition during Active Growth and Decline: A Laboratory Study – *Toxins* 15, 684. - <https://doi.org/10.3390/toxins15120684>
42. Dodds JN., Donelson KK., Boatman AK., Knappe D, Hall N., **Schnetzer A.** and Baker ES. (*in press*) Evaluating Solid Phase Adsorption Toxin Tracking (SPATT) for passive monitoring of per- and polyfluoroalkyl substances (PFAS) with Ion Mobility Spectrometry-Mass Spectrometry (IMS-MS).- *Science of The Total Environment* 947: 174574. <https://doi.org/10.1016/j.scitotenv.2024.174574>
41. Kirkwood-Donelson, K. I., Dodds, J. N., Schnetzer, A., Hall, N. & Baker, E. S. (2023) Uncovering per- and polyfluoroalkyl substances (PFAS) with nontargeted ion mobility spectrometry–mass spectrometry analyses. *Science Advances* 9, eadj7048 - <https://doi.org/doi:10.1126/sciadv.adj7048>
40. \*Pierce E., Torano O., Lin Y., **Schnetzer A.** and Marchetti A. (2023) Comparison of Advanced Methodologies for Diatom Taxonomy within Dynamic Coastal Upwelling Communities - *Limnology and Oceanography Methods* - <https://doi.org/10.1002/lom3.10575>
39. \*Anderson M., Valera M. and #**Schnetzer A.** (2023) Co-occurrence of freshwater and marine phycotoxins: a record of microcystins and domoic acid in Bogue Sound, North Carolina (2015 to 2020) – *Harmful Algae* 125: 102412 - <https://doi.org/10.1016/j.hal.2023.102412>
38. Patrick CJ., Kominoski JS., McDowell WH., Branoff B., Lagomasino D., Leon M., Hensell E., Hensell MJS., Strickland BA., Aide TM., Armitage A., Campos-Cerqueira M., Congdon VM., Crowl TA., Devlin DJ., Douglas S., Erisman BE., Feagin RA., Geist SJ., Hall NS., Hardison AK., Heithaus MR., Hogan JA., Hogan JD., Kinard S., Kiszka JJ., Lin T., Lu K., Madden CJ., Montagna PA., O'Connell CS., Proffitt CE., Reese BK., Reustle JW., Robinson KL., Rush SA., Santos RO., **Schnetzer A.**, Smee DL., Smith RS., Starr G., Stauffer BA., Walker LM., Weaver CA., Wetz MS., Whitman ER., Wilson SS., Xue J., Zou X. (2022) A universal pattern of trade-offs between ecosystem resistance and resilience to tropical cyclones – *Science Advances* 8: 1-10 - DOI: 10.1126/sciadv.abl9155
37. \*#Corradino G. and **Schnetzer A.** (2022) Grazing of a Heterotrophic Nanoflagellate on Prokaryote and Eukaryote Prey: Ingestion Rates and Gross Growth Efficiency – *Marine Ecology Progress Series* - 682:65-77 - DOI: <https://doi.org/10.3354/meps1392>
36. #Barbero L, Kelble C, Pierrot P, Wanninkhof R, **Schnetzer A**, Stauffer B (2020) Southeast Atlantic and Gulf of Mexico Region Ocean Acidification Research., in: Jewett E, Osborne E, Wanninkhof R, DeAngelo B, Arzayus K, Osgood K (eds) NOAA Ocean and Great Lakes Acidification Research Plan 2020-2029. <https://oceanacidification.noaa.gov/ResearchPlan2020.aspx>
35. #Hall ER, Wickes L, Burnett LE, Scott GI, Hernandez D, Yates KK, Barbero L, Reimer JJ, Baalousha M, Mintz J, Cai W-J, Craig JK, DeVoe MR, Fisher WS, Hathaway TK, Jewett EB, Johnson Z, Keener P, Mordecai RS, Noakes S, Phillips C, Sandifer PA, **Schnetzer A**, Styron J (2020) Acidification in the U.S. Southeast: Causes, Potential Consequences and the Role of the Southeast Ocean and Coastal Acidification Network. *Frontiers in Marine Science*, 7 - <https://doi.org/10.3389/fmars.2020.00548>
34. Shields M., Bianchi T., Osburn C., Kinsey J., Ziervogel K., **Schnetzer A.** and \*Corradino G. (2019) Linking chromophoric organic matter transformation with biomarker indices in a marine phytoplankton growth and degradation experiment – *Marine Chemistry*, 214: 103665 - <https://doi.org/10.1016/j.marchem.2019.103665>
33. \*Smith J., \*Connell P., Evans RH., Gellene AG., Howard MDA., Jones BH., Kaveggia S., Palmer L., **Schnetzer A.**, \*Seegers BN., \*Seubert EL., Tatters AO. and Caron DA. (2018) A decade and

- a half of *Pseudo-nitzschia* spp. and domoic acid along the coast of southern California – Harmful Algae, 79: 87-104 - <https://doi.org/10.1016/j.hal.2018.07.007>
32. \*Wiltzie D., **Schnetzer A.**<sup>#</sup>, Green J., Vander Borgh M. and Fensin E. (2018) Algal Blooms and Cyanotoxins in Jordan Lake, North Carolina – Toxins, 10(2), 92; - doi:10.3390/toxins10020092
  31. Kinsey JD., \*Corradino G., Ziervogel K., **Schnetzer A.** and Osburn CL. (2018) Formation of Chromophoric Dissolved Organic Matter by Bacterial Degradation of Marine Particles – Frontiers in Marine Science, 4(430). doi:10.3389/fmars.2017.00430
  30. \*Tatters O.A., **Schnetzer A.**, Xu K., Walworth N., Fu F., Spackeen J.L., Sipler R.E., Bertrand E.M., McQuaid J.B., Allen A.E., Bronk D.A., Gao K., Sun J., Caron D.A. and Hutchins D.A. (2018) Interactive Effects of Temperature, CO<sub>2</sub>, and Nitrogen Source on Community Composition and Domoic Acid Production in a California Coastal Diatom Assemblage – Journal of Plankton Research – 40(2): 151-164; doi:10.1093/plankt/fbx074
  29. **Schnetzer A.**, \*\*Lampe R., Benitez-Nelson C., Marchetti A., Osburn C. and \*Tatters O.A. (2017) Marine snow formation by the toxin producing diatom, *Pseudo-nitzschia australis* – Harmful Algae, 64: 23-30
  28. Caron D.A., Connell P., Schaffner R.A., **Schnetzer A.**, Fuhrman J.A., Countway P.D. and \*Kim D.Y. (2017) Planktonic food web structure at a coastal time-series site - Deep Sea Research, 121:14-29
  27. Andersson S.J., Kline D.I., Edmunds P.J., Archer S. D., Bednaršek N., Carpenter R.C., Chadsey C., Goldstein P., Grotoli A. G., Hurst T.P., King A.L., Kübler J.E., Kuffner I.B., Mackey K.R.M., Paytan A., Menge B.E., Riebesell U., **Schnetzer A.**, Warner M.E., Zimmerman R.C. (2015) Understanding ocean acidification impacts on organismal to ecological scales – Oceanography, 28: 16–27
  26. \*Kim D.Y., Countway P.D., \*Jones A.C., **Schnetzer A.**, \*\*Yamashita W., \*\*Tung C. and Caron D.A. (2014) Monthly to interannual variability of microbial eukaryote assemblages at four depths in the eastern North Pacific – ISME Journal, 8: 515-530
  25. Schnetzer A., \*Jones B.H., Schaffner R.A., \*Cetinic I., \*\*Fitzpatrick E., Miller P.E. and Caron D.A. (2013) Coastal upwelling linked to toxic *Pseudo-nitzschia australis* blooms in Los Angeles coastal waters, 2005 – 2007 – Journal of Plankton Research, 35: 1080-1092.
  24. \*Lie A., \* Kim D.Y., **Schnetzer A.** and Caron D.A. (2013) Small-scale temporal and spatial variations in protistan community composition at the San Pedro Ocean Time-series station off the coast of southern California - Aquatic Microbial Ecology, 70: 93-110
  23. \*Stauffer B., Schnetzer A., Gellene A.G., Oberg C., Sukhatme G.S. and Caron D.A. (2013) Effects of an acute hypoxic event on microplankton community structure in a coastal harbor of Southern California – Estuaries and Coasts: 36: 135-148
  22. \* Tatters A.O., **Schnetzer A.**, Fu F., Lie A, David A. Caron and David A. Hutchins (2013) Short-versus long-term responses to changing CO<sub>2</sub> in a coastal dinoflagellate bloom: implications for interspecific competitive interactions and community structure. – Evolution 67: 1879-1891
  21. \*Tatters A.O., Roleda M.Y., **Schnetzer A.**, Fu F., Hurd C., Boyd P.W., Caron D.A., \*Lie A., Hoffmann L. and Hutchins D.A. (2013) Short- and long-term conditioning of a temperate marine diatom community to acidification and warming- Philosophical Transactions R. Soc. B. 368: 20120437
  20. \*Seubert E.L., Eagleton J., Donovan M., **Schnetzer A.**, Cetnić I., Trussell S., Lauri L., Jones B.H. and Caron D.A. (2012) Algal toxins and reverse osmosis desalination operations: laboratory bench

- testing and field monitoring of domoic acid, saxitoxin, brevetoxin and okadaic acid – Water Research: 46: 6563-73
19. \*Stauffer B., Gellene A.G., Schnetzer A., \*Seubert E., Oberg C., Sukhatme G.S. and Caron D.A. (2012) An oceanographic, meteorological and biological ‘perfect storm’ yields a massive fish kill – Marine Ecology Progress Series: 468: 231-243
  18. Howard M.D.A., \*Jones A.C., **Schnetzer A.**, Countway P.D., Tomas C., Kudela R.M., \*Hayashi K., Chia P. and Caron D.A. (2012) Quantitative real-time PCR for *Cochlodinium fulvescens* (Dinophyceae), a potentially harmful dinoflagellate from California Coastal waters – Journal of Phycology: 48: 384-393
  17. Caron D.A., Countway P.D., \*Jones A.C., \*Kim D.Y. and **Schnetzer A.** (2012) Marine Protistan Diversity – Annual Review Marine Science: 4: 6.1-6.27
  16. Garneau M.E., **Schnetzer A.**, Countway P.D., \*Jones A.C., \*Seubert E. and Caron D.A. (2011) Seasonal dynamics of the toxic dinoflagellate *Alexandrium catenella* in Redondo Beach, California, examined by quantitative PCR – Applied and Environmental Microbiology 77: 7669-7680
  15. **Schnetzer A.**, Moorthi S., Gast R.J., Countway P.D., \* Gilg I.C. and Caron D.A. (2011) Depth matters: Microbial eukaryote diversity and community structure in the eastern North Pacific as indicated by environmental gene libraries – Deep Sea Research I 58: 16-26
  14. Smith R.N., Das E.C., Heidarsson H., Pereira A.M., Arrichiello F., Cetnic I., Darjany L., Garneau M.E., Howard M.D., Oberg C., Ragan M., Seubert E., Smith E.C., Stauffer B.A., **Schnetzer A.**, Toro-Farmer G., Caron D.A., Jones B.H. and Sukhatme G.S. (2010) – IEEE Robotics & Automation Magazine – 17: 20-30
  13. Countway P.D., \*\*Vigil P.D., **Schnetzer A.**, Moorthi S.D. and Caron D.A. (2010) Seasonal analysis of protistan community structure and diversity at the USC microbial observatory (San Pedro Channel, North Pacific Ocean) – Limnology and Oceanography 55: 2381-2396
  12. \*\* Fitzpatrick E., Caron D.A. and **Schnetzer A.** (2010) Development and environmental application of a genus-specific quantitative PCR approach for *Pseudo-nitzschia* species – Marine Biology 157:1161-1169
  11. Caron D.A., Garneau M.-E., \* Seubert E., Howard M.D.A., Darjany L., **Schnetzer A.**, \* Cetinic I., Filteau G., Lauri P., Jones B.H. and Trussell S. (2010) Harmful algae and their potential impacts on desalination operations off Southern California. – Water Research 44: 385-416
  10. \* Gilg I.C., Amaral-Zettler L.A., Countway P.D., Moorthi S., **Schnetzer A.** and Caron D.A. (2010) Phylogenetic affiliations of mesopelagic acantharia and acantharian-like environmental 18S rRNA genes in the San Pedro Channel – Protist 161: 197–211
  9. Caron D.A., Countway P.D., Savai P., Gast R.J., **Schnetzer A.**, Moorthi S., Dennett, M.R. Moran, D.M. and \* Jones A.C. (2009) Defining DNA-based operational taxonomic units for microbial eukaryote ecology – Applied Environmental Microbiology 75: 5797-5808
  8. \* Wood E.S, **Schnetzer A.**, Benitez-Nelson C.R., Anderson C., Berelson W., Brzezinski M., Burns J., Caron D.A., \* Cetinic I., Ferry J., \*\* Fitzpatrick E., Jones B., Miller P.E., Morton S.L., Schaffner R.A., Siegel D., Thunell R. (2009) Rapid downward transport of the neurotoxin domoic acid in coastal waters – Nature Geosciences 2: 272 - 275
  7. Litaker, R.W., Stewart, T.N., Eberhart, B.T.L., Wekell, J.C., Trainer, V.L., Kudela, R.M., Miller, P.E., Roberts, A., Hertz, C., Johnson, T.A., Frankfurter, G., Smith, J., **Schnetzer, A.**, Schumacker, J., Bastian, J.L., Odell, A., Gentien, P., Le Gal, D., Hardison, D.R., Tester, P.A (2008). Rapid Enzyme-linked Immunosorbent Assay for Detection of the Algal Toxin Domoic Acid – Journal of Shellfish Research 27: 1-10



6. **Schnetzer, A.**, Miller, P. E., Schaffner, R. A., \* Stauffer, \* Rose, J. M., B., Jones, B., Weisberg, S. B, DiGiacomo, P. M., Berelson, W., and Caron, D. A. (2007) *Pseudo-nitzschia* spp. and domoic acid in the San Pedro Channel and Los Angeles harbor areas of the Southern California Bight, 2003-2004 - Harmful Algae 6: 372-387
5. Caron, D.A., **Schnetzer, A.** Protistan community structure (2006). In: Hurst, C.J., Knudsen, G.R., McInerney, M.J., Stetzenbach, L.D. and M.V. Walter (eds.). Manual of Environmental Microbiology, Section IV, ASM Press, Washington, D.C.
4. **Schnetzer, A.**, Caron, D.A. (2005) Copepod grazing impact on the trophic structure of the microbial assemblage of the San Pedro Channel, California – Journal of Plankton Research 27:959-972
3. **Schnetzer, A.**, Steinberg, D.K. (2002) Active Transport of particulate organic carbon and nitrogen by vertically migrating zooplankton in the Sargasso Sea. Marine Ecology Progress Series 234:71-84
2. **Schnetzer, A.**, Steinberg, D.K. (2002) Natural Diets of Vertically Migrating Zooplankton in the Sargasso Sea. Marine Biology 141(1):89-99
1. **Schnetzer, A.** (1996) Episodic Sedimentation and Following Remineralization of Differently-Aged Marine Snow Stages: A Laboratory Study, MS thesis, University of Vienna, Austria

#### Book Chapter (1)

1. Caron, D.A., Schnetzer, A. Protistan community structure (2006). In: Hurst, C.J., Knudsen, G.R., McInerney, M.J., Stetzenbach, L.D. and M.V. Walter (eds.). Manual of Environmental Microbiology, Section IV, ASM Press, Washington, D.C.

#### Other Publications

PI Workshop Report - Pelagic-benthic decoupling? Ecosystem restructuring in the Northern Bering and Chukchi seas, Alaska Fisheries Science Center. 2023

The University of North Carolina Falls Lake Study, Final Report to the North Carolina General Assembly, December 2023 - Study and report contribution on Cyanotoxin and Year-round Dynamics - <http://nutrients.web.unc.edu/>

A Chlorophyll a Criterion for High Rock Lake (2020) by the North Carolina Nutrient Criteria Science Advisory Council (alphabetical) M. Ardon, C. Bell, J. Bowen, L. Ehrlich, N. Hall, W. Hall, M. Lebo, M. O'Driscoll, D. Osmond, H. Paerl, L. Petter, **A. Schnetzer** - <https://deq.nc.gov/media/16410/download>

Barbero, L; D. Pierrot, R. Wanninkhof, M. Baringer, J. Hooper, J.Z. Zhang, R. Smith, R. Byrne, C. Langdon, M. Hernández-Ayón, **A. Schnetzer**, B. Stauffer, S. Herzka, J. Cano-Compairé, F. Hernández, D. Pech, C. Hu, D. English, M. Ondrusek, J. Olascoaga and G. Derr. (2019) Cruise Report: Third Gulf of Mexico Ecosystems and Carbon Cycle (GOMECC-3) Cruise - <https://repository.library.noaa.gov/view/noaa/21256>

Conservation Purpose and Public Benefit Study: Greensboro Lakes (2018) - **A. Schnetzer**: Cyanobacterial Dynamics and Toxins in Lake Jeanette and Buffalo Lake. Ed: Fox, A and Klondike, NC State University College of Design: 42-45

Loveland, J, DA Caron, **A Schnetzer**, I Cetinić, RA Schaffner, BA Stauffer, E Means, P Lauri, P Shoenberger, G Oelker, B Jones. 2007. Occurrence and Removal of Marine Biotoxins for the Seawater Reverse Osmosis Treatment Process: Phytoplankton and Domoic Acid Correlations at the West Basin MWD Seawater Desalination Pilot Plant in El Segundo, CA. AMTA Solutions, Spring 2007: 14-17.

SOCAN 2016 State of the Science Workshop Report: synthesizing the 2016 State of the Science Workshop that aimed to identify (1) research needs and capabilities, (2) unique aspects and vulnerabilities and (3) stakeholder needs of the Southeast Region. -<http://secoora.org/wp-content/uploads/2015/01/SOCAN-2016-State-of-the-Science-Workshop-Report.pdf>

### **Professional Societies**

American Society of Limnology and Oceanography (ASLO), The Oceanographic Society (TOS), American Association for the Advancement of Science (AAAS), American Geophysical Union (AGU), North Carolina Water Resources Association (NCWRA), American Association of University Women (AAUW), Society for Women in Marine Science (SWMS), Coastal and Estuarine Research Federation (CERF)

### **Oceanographic Cruises & Field Work**

#### Northern Bering Sea and Chukchi Sea

Collaboration with tribal communities on St. Paul Island and with the Village of Kotzebue Sound to establish toxin presence and potential food web accumulation of both marine and freshwater toxins within their respective regions. Support in establishing toxin measurement capabilities on site for better Harmful Algal Bloom (HAB) detection. - *Since 2017, ongoing.*

#### North Pacific Coast, Upwelling regions

Impacts of iron supplies on protistan assemblages using FlowCAM, contributions from harmful alga taxa and measurement of marine algal toxins for CTD collected samples and from iron-enrichment experiments conducted on board. Participation in project led by Adrian Marchetti lab at UNC Chapel Hill. - *Summer 2023*

#### Bogue Sound Plankton Time-series, North Carolina

Protist and Zooplankton assemblage characterization using microscopy and molecular approaches, environmental data collection weekly to monthly. Morehead City, Carteret Community College Pier – *Since 2013, ongoing*

#### North Carolina Lakes, Reservoirs and Estuaries

Sampling of numerous water drinking reservoirs, natural lakes and coastal estuaries to characterize algal bloom dynamics, cyanotoxin production and food web contamination. These include Chowan River, Tar-Pamlico Estuary, Jordan and Falls lakes, Albemarle and Pamlico sounds, Bogue Sound, Nelson Bay, Masonboro Sound, Core Sound, Edenton area. – *Since 2013, ongoing*

#### Arctic Ocean Program (North Pacific Research Board)

Integrated Ecosystem Research Program (IERP) and Advection, Respiration, and Deposition Rate Experiments (ASGARD) cruise collaborations to characterize microzooplankton populations. - *Spring & Summer of 2017, Summer 2018 & 2019, respectively*

#### Gulf of Mexico (Gulf of Mexico Ecosystems and Carbon Cruises, GOMECC, NOAA)

GOMECC4 participants, Protistan diversity (eDNA), production & copepod feeding ecology along gradients of eutrophication-induced acidification and hypoxia - *Sept-Oct 2021*

GOMECC3 participants, Protistan diversity, production & copepod feeding ecology along gradients of eutrophication-induced acidification and hypoxia - *Jul-Aug 2017*

Rapid Response Research (RAPID) cruises (NSF), Protistan diversity, production & copepod feeding ecology altered by freshwater impact from Hurricane Harvey - *Oct 2017, Jan & Mar 2018*

North Atlantic Coast

East Coast Ocean Acidification Cruise (ECOA, Leg 2), Protistan diversity (eDNA), production & copepod feeding ecology along gradients of eutrophication-induced acidification and hypoxia - *Sep 2022*

PEACH participants, North Atlantic coast from MA to NC, plankton community sampling, offshore and longshore cruise transect; spatiotemporal patterns of protist plankton; - *Apr 2017*

Southern California Coast, North Eastern Pacific

2006 – 2012: Redondo Beach, HAB-related weekly sampling

2005 – 2010: MERHAB-Rapdalert, Harmful Algal Blooms (HAB) quarterly sampling

2005 –2008: ECOHAB: San Pedro Basin, HAB-related weekly to monthly sampling

2002 – 2005: MO Observatory. San Pedro Channel. Protistan Diversity, monthly sampling

Coastal Southern Ocean and Ross Sea, Antarctica

7-week cruise: Ecology of mid-trophic food web interactions - *Jan/Feb 2008*

7-week cruise: Protistan Diversity in open water and sea-ice communities - *Oct-Dec 2005*

4-week cruise: Protistan diversity & copepod feeding ecology - *Oct/Nov 2003*

Hydrothermal Vents, Equatorial Pacific

6-week cruise to hydrothermal vents along the East Pacific Rise (9°N and 13°N). Protistan diversity within hydrothermal vent habitats (Alvin dive to 2600m) - *Nov/Dec 2004*

Sargasso Sea, North Western Atlantic

Bermuda Atlantic Time-series Study. Monthly cruises to study ocean biogeochemistry and food web dynamics - *April 1998-2001*

Northern Adriatic, Mediterranean

Benthic-pelagic coupling in the coastal Northern Adriatic Sea (Ruder Boskovich Institute in Rovinj, Croatia). Marine snow and sediment – water exchange processes (SCUBA diving and sediment trap work) - *1992 – 1996*

**Professional Activities / Service**

2024	MEAS Reappointment, Promotion and Tenure Committee (member)
2024	NC C-CAPE Community Engagement Coordinator Committee (member)
2024	NC C-CAPE Research Program Manager Hiring Committee (chair)
2023/2024	MEAS Annual Symposium Planning Committee (member)
2023	MEAS Community Climate Committee (member)
2023	MEAS Departmental Business Manager Hiring Committee (member)
2023	MEAS Accounting Technician Hiring Committee (member)
2021 – present	Advisory Committee for the NIH-funded Southern Liver Health Study (STRIVE) under the lead of Dr. Cathrine Hoyo (NCSU)
2021 – present	Full Member of the Center for Human Health and the Environment (CHHE), NCSU
2020 - 2022	NCSU Park Scholarship Program Mentor
2020 - 2021	MEAS Chemical Oceanography Hiring Committee (member)
2016 - 2020	MEAS Honors Undergraduate Program Director

2019 - 2022	Member of the Patrick Awards Subcommittee at ASLO
2019	Technical Contributor to the NOAA's Ocean Acidification Research Plan - Chapter 7: 7. Southeast Atlantic and Gulf of Mexico Region
2018 - 2019	MEAS Department Head Search Committee (member)
2018	Participant in NCSU Ecology and Environmental Sciences Recruitment Initiative, Jan/Feb
2015 - present	Southeast Ocean and Coastal Acidification Network (SOCAN) Steering & Sciences Committee, NOAA
2015 – 2020	Scientific Advisory Council (SAC), NC Division of Water Resources for the Development of Nutrient Criteria
2015 – 2016	MEAS Marine Microbiology Hiring Committee
2014 – 2015	MEAS Undergraduate Advisory Committee
2012 – 2018	MEAS Safety Committee
2012 – 2013	MEAS Global Education Hiring Committee

Grant Reviews: NSF Panelist (Office for Polar Programs); EPA Panelist (STAR Program); NOAA Panelist (Coastal Hypoxia Research Program); Regular external NSF Reviews: Office for Polar Programs, Biological Oceanography, Dimensions of Biodiversity, CAREER-program, Ocean Acidification; NOAA Reviews: Seagrant programs; NIH; AAAS, Velux Foundation

Manuscript Reviews: *Aquatic Microbial Ecology, Animal Ecology, Deep Sea Research, Environmental Microbiology, Estuaries and Coasts, Journal of Plankton Research, Limnology and Oceanography, Marine Ecology Progress Series, Harmful Algae, Applied and Environmental Microbiology, Journal of Eukaryotic Microbiology, ISME Journal, PLOS, Microbial Ecology, Polar Biology, Research in Microbiology, Nature Communications, Frontiers*

### **Leadership Training and DEI Efforts**

2020 – 2023	Heading effort to improve Early Faculty Mentoring within MEAS Lead on Revision of Assistant Professor Faculty Guidelines
2017 – present	Organizer of MEAS Women Science Meet (~biweekly to monthly)
2022	Mental Health First Aid Training Certification
2022	CIMER Mentor workshop (CIMER = Center for the Improvement of Mentored Experiences in Research)
2021	Tidal Equality Sequence Workshop organized by COS
2021	Organization of Early Faculty Mini-retreats (once per semester)
2020 – 2021	Chair of the MEAS Community Climate Committee <ul style="list-style-type: none"> <li>▪ Assessment of MEAS satisfaction with community life in MEAS</li> <li>▪ Identification of areas where community building requires strengthening</li> <li>▪ Development of strategies to increase research networking, social interactions and mentoring approaches (together with Div Com)</li> </ul>
2020 – 2021	Member of Diversity Committee
2020 – present	NCSU GLBTQ Advocate Program
2021	OIED Cultural Competence Certificate Program

- DiversityEdu: Personal Skills for a Diverse Campus
  - The Macro of Microaggressions
  - Unconscious Bias: Insight for Inclusivity
  - Environmental Justice
  - Fundamentals of Equal Opportunity
- 2020 Participant in Society for Women in Marine Science (SWMS) URI Symposium, Mentor role
- 2020 Participant in NASEM Symposium on Imagining the Future of Undergraduate STEM Education / Board on Science Education (BOSE)
- 2020 Visions workshop on Building Faculty Capacity for Leveraging Diversity, Equity and Inclusion
- 2020 Courageous Conversation training participant, OIED NCSU
- 2020 Volunteer for Diversity in STEM Symposium, NCSU
- 2019 NCSU Building Future Faculty Program, cohost
- 2019 – 2020 Departmental Work Load Equity Committee
- 2019 Faculty Participant in Sciences WISE women event, NCSU

#### **Invited Seminars, Features, Workshops or Public Outreach (since 2020)**

- 2023 Co-organizer of breakout session on “Cyanotoxin Risks in Shellfish Harvest Waters“ at the 73rd Annual Mid-Atlantic Interstate Seafood Seminar & Gulf and South Atlantic States Shellfish Conference, Wilmington, NC, Nov
- 2023 Invited talk on “Toxic cyanobacterial blooms and food web contamination in the Chowan River and western Albemarle Sound“ – public Albemarle Algal Bloom Summit, Elizabeth City, NC, Nov
- 2023 Invited talk on „Cyanotoxin Dynamics in Falls Lake“ at UNC Collaboratory Annual Conference. Pierce E, McClure W, Valera M, Mohn J. and Schnetzer A. – presenter: Emily Pierce, Raleigh, NC, Apr
- 2023 Invited poster as member of the NC CHHE to participate in the 2023 NIEHS EHS Core Centers Annual Meeting. Presentation on “Cyanotoxin exposure from shellfish consumption in NC coastal waters“, Houston, TX, Oct.
- 2023 Seminar on “Microplankton community structure and carbon biomass in the Arctic“, Seattle, OR – presenter: Miranda Hart
- 2023 Seminar and discussion with the NC Marine Science Club, Raleigh, Feb
- 2022 Organizing Committee and Invited Speaker for the 6th Annual CHHE Symposium on Climate Change and Health, Feb, NCSU
- 2021 Coastal Resilience and Sustainability Initiative lightning talk on Phytotoxins in North Carolina Waters, Oct (remote)
- 2021 Invited talk at University of South Carolina (USC-SEOE Seminar) “On the Hunt for Cyanotoxins in Freshwater and Estuarine Systems“, Oct (remote)
- 2021 College of Sciences University Research Symposium, lightening talk on “Climate Change and Harmful Algal Blooms: Potential Impacts on Food Web Resilience“, Mar (remote)

- 2021 Science House Highschool seminar on Algal Blooms (remote), 15 students - Jun
- 2021 Project update and oral presentation on “Assessing cyanotoxins within the Albemarle Food Web“ with Department of Environmental Quality and Division of Marine Fisheries (remote) - Mar
- 2021 Panelist in networking Session for Students & Water Resource Professionals at the WRI Annual Conference (remote) - Mar
- 2021 Invited speaker for the DEQ NC Nutrient Scientific Advisory Board on Cyanotoxins in Falls Lake (remote) - Mar
- 2021 Participant in Virtual 2-day Harmful Algal Bloom Symposium, North Central Region Water Network - Jan
- 2020 Participant in NASEM Symposium on Imagining the Future of Undergraduate STEM Education / Board on Science Education (BOSE) - Nov
- 2020 Invited talk Southeast Coastal and Ocean Acidification (SOCAN): Connecting Science and Stakeholders Town Hall, Talk on Harmful Algal Blooms and Ocean Acidification - Sep
- 2020 Invited talk from North Carolina Water Research Association (NCWRA), Annual Luncheon Speaker on Harmful Algal Blooms and the Latest on Jordan Lake - Sep
- 2020 Invited talk on ocean acidification and harmful algal blooms: A marginal sea of variability in ocean acidification and harmful algal blooms in the Gulf of Mexico; NOAA OA HAB Workshop webinar series, B. Stauffer and A. Schnetzer, Jul
- 2020 Invited participant to the “Clean Waters and SAV (Submerged Aquatic Vegetation): Making the Connection”, Technical Workshop, NC Museum of Natural Sciences, Raleigh, Mar
- 2020 Invited talk on ocean acidification, hypoxia and hurricanes: Plankton food webs in the Gulf of Mexico across multiple stressors, B. Stauffer and A. Schnetzer, University of Miami, FL - Jan

#### Conference Abstracts (total of 117 before 2020)

- Moore R., Alston K., Schnetzer A. and Davis C. (2024) Assessing environmental drivers of foraminiferal species distribution along the U.S. east coast. Poster presentation at 2024 AGU Science Meeting, Washington D.C.
- Kintner C., Sholes M., Rose B., Karl C., Karl S., Godwin C. and Schnetzer A. (2024) Investigating microcystin presence in frequently caught recreational fish species in Albemarle Sound, North Carolina in 2023. Poster presentation at 2022 WRI Annual Conference, Raleigh, NC
- Sholes M., Kintner C., Rose B., Valera M., Godwin C. and Schnetzer A. (2024) Determining Microcystin Concentrations in Juvenile Fish Throughout the Albemarle Sound, North Carolina Poster presentation at 2022 WRI Annual Conference, Raleigh, NC
- Schnetzer A., O’Driscoll M., Rose B., Roussa L., Moysey S. (2024) Algal dynamics and cyanotoxin distribution along the Pamlico River Estuary during 2023. Poster presentation at 2022 WRI Annual Conference, Raleigh, NC
- Schnetzer A., Szczepanski A., Corradino G., Stauffer B.A., Pathare M. and Barbero L. (2024) Copepod grazing dynamics along eutrophication and other gradients in the Gulf of Mexico. Presentation at the 2024 Ocean Science Meeting, New Orleans, LA.
- Corradino G. and Schnetzer A. (2024) Exploring the Dynamics of Nanoflagellate Attachment to Diatoms: Implications for Marine Food Webs. Presentation at the 2024 Ocean Science Meeting, New Orleans, LA.
- Anderson S.R., Barbero B., Stauffer B.A., Schnetzer A., Kelble C.R. and Thompson L.R. (2024) Basin-scale Ocean Acidification Measurements and DNA Metabarcoding in the Gulf of Mexico

Allow for Prediction of Current and Future Microbial Community Diversity Patterns. Presentation at the 2024 Ocean Science Meeting, New Orleans, LA.

- Hart M., Kimmel D., Lomas M., Nielsen., Eisner L., Hopcroft R. and Schnetzer A. (2024) Microplankton carbon biomass and community structure in the Chukchi and Bering Seas. AIERP Synthesis Workshop, Anchorage, AK
- Pierce E., Valera M., Griffith E. and Schnetzer A. (2023) Examining microcystin concentrations, congener profiles and bacterial community composition during multiple blooms in the Chowan River in 2019. Coastal & Estuarine Research Federation Annual Conference. Portland, OR
- Schnetzer A. and Ben-Horin T. (2023) Cyanotoxin exposure from shellfish consumption in NC coastal waters. 2023 NIEHS Environmental Health Sciences Core Centers Meeting Climate/DR2, Houston TX
- Gonzalez S., Eisner LB., Hopcroft R. Irby M., Kimmel DG. Logerwell E., Lomas MW, Nielsen JM. and Schnetzer A. (2023) Phytoplankton-zooplankton associations in the northern Bering and Chukchi seas. Poster Presentation at Alaska Marine Science Symposium, Anchorage, AK
- Litwin K., Rose B., Pierce E., Belcher S., Harms C., Lyons K., and Schnetzer A. (2023) Cyanotoxins in Sea Turtles, Sharks, and Alligators: An Exploratory Study. NC Undergraduate Research and Creativity Symposium (SNCURCS), Raleigh, NC
- Gonzalez A., Porter B. and Schnetzer A. (2023) Analysis of Microplankton Community Composition in Bogue Sound, North Carolina. NC Undergraduate Research and Creativity Symposium (SNCURCS), Raleigh, NC
- Schnetzer A. and Godwin C (2023) USEPA Fish Forum 2023 Food Web Transfer of Cyanobacterial Toxins in the Chowan River and the western Albemarle Sound, North Carolina
- Anderson S., Thompson L., Barbero L., Kelble C., Stauffer B. and Schnetzer A. (2023) Patterns of microbial and plankton diversity from eDNA collected on GOMECC-4. NOAA Ocean Acidification Community Meeting & Mini Symposium, San Diego
- Dodds J., Boatman A., Schnetzer A., Knappe D. and Baker E. (2022) Exploring Novel Relationships Between Persistent Organic Pollutants (Pesticides, PFAS, and Cyanotoxins) in Environmental Analyses using Ion Mobility Spectrometry-Mass Spectrometry. American Society of Mass Spectrometry 2022 Conference
- Schnetzer A. (2022) Climate Change and Health Sixth Annual CHHE Symposium. Invited Talk: Harmful Algal Blooms and a Changing Climate - virtual
- Pierce E., McClure W., Valera M., Mohn J. and Schnetzer A. (2022) Invited Talk: Monitoring for Algal Toxins in Falls Lake. UNC Policy Collaboratory Annual Symposium, Raleigh, NC
- Schnetzer A. And Godwin C. (2022) Cyanotoxin Food Web Contamination in the Western Albemarle Sound, NC - Oral presentation at 2022 WRI Annual Conference, Raleigh, NC
- Pierce E., Valera M., Griffith E. and Schnetzer A. (2022) An analysis of toxic algal blooms in the Chowan River in Summer 2019 - Poster presentation at 2022 WRI Annual Conference, Raleigh, NC
- Keleher K., Stanton W., Dockendorf K., Potoka K., Valera M and Schnetzer A. (2022) Characterizing Cyanotoxin Contamination of Fish and Shellfish in Lake Mattamuskeet, North Carolina - Poster presentation at 2022 WRI Annual Conference, Raleigh, NC
- Anderson M., Ben-Horin T., Lucas J. and Schnetzer A. (2022) Algal toxin presence in water and oysters at three coastal NC sites - Poster presentation at 2022 WRI Annual Conference, Raleigh, NC
- Schnetzer A. (2021) Invited Talk on Cyanotoxin presence & year round dynamics in Falls Lake, Falls Lake Nutrient Management Study Research Symposium (remote)

- Schnetzer A. (2021) Invited Talk and Panel Participation on Harmful Algal Blooms organized for the 2021 Annual Southeast Coastal Ocean Observing Regional Association (SECOORA) Meeting. Title: Toxic Algal Blooms in North Carolina Waters. St. Petersburg, Florida
- Pierce E., Valera M., Griffith E. and Schnetzer A. (2021) An analysis of microcystin concentration, partitioning, and structural composition throughout bloom phases. 1st Annual College of Sciences Research Symposium, Raleigh, NC.
- Anderson M., Valera M., Szczepanski A., Corradino G., Irby M. and Schnetzer A. (2021) As freshwater and marine toxins merge: a time-series provides insight into the co-occurrence of algal toxins in Bogue Sound, NC.
- Corradino G. and Schnetzer A. (2021) You are what you eat: heterotrophic nanoflagellate growth, grazing and cell stoichiometry on prokaryotic and eukaryotic prey. Oral presentation at 2021 ASLO Aquatic Science Meeting (remote)
- Irby M., Kimmel D., Lomas M., Eisner L and Schnetzer A. (2021) Microzooplankton Community Structure and Abundance Patterns in the Northern Bering and Chukchi Seas, 2017 and 2019. Poster presentation at 2021 ASLO Aquatic Science Meeting (remote)
- Schnetzer A. (2021) Climate Change and Harmful Algal Blooms: How do they effect the Coastal Food Web? Lightning Talk at 2021 NC State University Research Symposium, NC
- Corradino G. and Schnetzer A. (2020) The Characterization of a Novel Heterotrophic Nanoflagellate Isolated from the Coastal Waters of North Carolina. 2020 ASLO/AGU/TOS Science Meeting in San Diego, CA
- Pierce E., Marchetti A., Torano O., Whitehouse L., and Schnetzer A. (2020) Comparison of Advanced Methodologies for Phytoplankton Community Analysis. 2020 ASLO/AGU/TOS Science Meeting in San Diego, CA
- Stauffer B. and Schnetzer A. (2020) Ocean acidification, hypoxia, and hurricanes: Plankton food webs in the Gulf of Mexico across multiple stressors, Ocean Acidification Program Principal Investigator Meeting, Miami, FL