

## PROFESSIONAL PREPARATION

University of Georgia	Athens, GA	Marine Science	PhD, 2014
University of North Carolina	Chapel Hill, NC	Environmental Science	BS, 2007

## APPOINTMENTS

2019– Assistant Professor, Rowan University Department of Environmental Science  
2017–2019 Research Scientist, Louisiana Universities Marine Consortium (LUMCON)  
2014–2017 Postdoctoral Scientist, Max Planck Institute for Marine Microbiology

## RESEARCH GRANTS AND FELLOWSHIPS

- 2024–2027 (3 years). \$360,000. Lead-PI. “Mapping New Jersey wetland carbon pools and fluxes”. New Jersey Department of Environmental Protection.
- 2024–2026. Co-PI. \$139,619; 2 years. “Distribution and sources of per- and polyfluoroalkyl substances in commercial coastal species in South New Jersey”. New Jersey Sea Grant Consortium.
- 2023–2025 (2 years). \$76,000. Lead-PI. Early Career Research Fellowship. NASEM Gulf Research Program.
- 2023–2026 (3 years). \$13,915. Co-PI. “Assessing restoration success and ecosystem services across the Panhandle Region to assist in restoration target setting”. Florida Restore Act Centers of Excellence Program.
- 2022–2027 (5 years). \$179,901. Lead-PI. “EAR-Climate: Collaborative Research: Methane Dynamics Across Microbe-to-Landscape Scales in Coastal Wetlands”. National Science Foundation.
- 2022–2024 (2 years). \$138,650. Lead-PI. “Predicting the response of salt marsh methane emissions to sea-level rise through field and numerical experiments”. New Jersey Sea Grant Consortium.
- 2022–2024 (2 years). \$27,062. Co-PI. “Mapping and assessing tidal marsh condition via multispectral imaging”. New Jersey Department of Environmental Protection.
- 2022–2023 (1 year). \$28,228. Co-PI. “Quantifying coastal groundwater discharge through a novel, research-focused environmental science field course”. Rowan University CATALYST Program.
- 2009–2012 (3 years). \$111,000. Lead PI. Science to Achieve Results Graduate Fellowship. US Environmental Protection Agency.

## PEER REVIEWED PUBLICATIONS (supervised student coauthor)

23. Moore WS, C Benitez-Nelson, CA Schutte, A Moody, A Shiller, R Sibert, SB Joye. 2024. SGD-OD: Investigating the potential oxygen demand of submarine groundwater discharge in coastal systems. Nature Scientific Reports, 14:9249, doi:[10.1038/s41598-024-59229-7](https://doi.org/10.1038/s41598-024-59229-7).

22. Bansal S, ..., **CA Schutte** (54 of 65 total), ..., and X Zhu. 2023. Practical guide to measuring wetland carbon pools and fluxes. *Wetlands (Mark Brinson Review)* 43:105, doi:[10.1007/s13157-023-01722-2](https://doi.org/10.1007/s13157-023-01722-2).
21. Coleman M, B Simon, M Pierce, and **CA Schutte**. 2023. Emergent Sonification: Using Computational Media to Communicate the Anthropocene in ByrdBot. *Science Communication* 42:2, 252-266, doi:[10.1177/10755470231165941](https://doi.org/10.1177/10755470231165941).
20. Rossi RE, **CA Schutte**, J Logarbo, C Bourgeois, and BJ Roberts. 2022. Gulf ribbed mussels increase plant growth, primary production and soil nitrogen cycling potential in salt marshes. *Marine Ecology Progress Series*, 689:3-46, doi:[10.3354/meps14032](https://doi.org/10.3354/meps14032).
19. **Schutte CA**, VA Samarkin, B Peters, MT Madigan, KL Casciotti, and SB Joye. 2022. Abiotic nitrous oxide production from the sediments and brine of Don Juan Pond, Wright Valley Antarctica, at Mars analog temperatures (−40°C). *Geophysical Research Letters*, GRL63617, doi:[10.1029/2021GL094635](https://doi.org/10.1029/2021GL094635).
18. Grow AK, **CA Schutte**, and BJ Roberts. 2022. Fiddler crab burrowing increases salt marsh greenhouse gas emissions. *Biogeochemistry*, doi:[10.1007/s10533-021-00886-5](https://doi.org/10.1007/s10533-021-00886-5)
17. Jones SF, **Schutte CA**, BJ Roberts, KM Thorne. 2022. Seasonal impoundment management reduces nitrogen cycling but not resilience to surface fire in a tidal wetland. *Journal of Environmental Management* 303, 114153, doi:[10.1016/j.jenvman.2021.114153](https://doi.org/10.1016/j.jenvman.2021.114153).
16. **Schutte CA**, P Huanca-Valenzuela, G Lavik, HK Marchant, D de Beer. 2021. Advection drives nitrate past the microphytobenthos in intertidal sands, fueling deeper denitrification. *Frontiers in Microbiology* 12, 556268, doi:[10.3389/fmicb.2021.556268](https://doi.org/10.3389/fmicb.2021.556268).
15. Saxton MA, VA Samarkin, MT Madigan, MW Bowles, WM Sattley, **CA Schutte**, and SB Joye. 2021. Sulfate reduction and methanogenesis in the hypersaline deep waters and sediments of a perennially ice-covered lake. *Limnology and Oceanography* 66(5), 1804-1818, doi:[10.1002/lno.11723](https://doi.org/10.1002/lno.11723).
14. **Schutte CA**, WS Moore, AM Wilson, and SB Joye. 2020. Groundwater-driven greenhouse gas export reduces salt marsh blue carbon potential. *Global Biogeochemical Cycles* 34(10), e2020GB006587, doi:[10.1029/2020GB006587](https://doi.org/10.1029/2020GB006587).
13. **Schutte CA**, JM Marton, AE Bernhard, AE Giblin, and BJ Roberts. 2020. No evidence for long-term impacts of oil spill contamination on salt marsh soil nitrogen cycling processes. *Estuaries and Coasts* 43, 865-879, doi:[10.1007/s12237-020-00699-z](https://doi.org/10.1007/s12237-020-00699-z).
12. **Schutte CA**, VA Samarkin, B Peters, M Madigan, M Bowles, R Morgan-Kiss, K Casciotti, and SB Joye. 2019. Vertical stratification and stability of biogeochemical processes in the deep saline waters of Lake Vanda, Antarctica. *Limnology and Oceanography* 65(3), 569-581, doi:[10.1002/lno.11327](https://doi.org/10.1002/lno.11327).
11. **Schutte CA**, A Teske, BJ MacGregor, V Salman-Carvalho, G Lavik, P Hach, and D de Beer. 2018. Filamentous giant *Beggiatoaceae* from Guaymas Basin are capable of both denitrification and dissimilatory nitrate reduction to ammonium (DNRA). *Applied and Environmental Microbiology* 84(15), e02860-17, doi:[10.1128/AEM.02860-17](https://doi.org/10.1128/AEM.02860-17).
10. **Schutte CA**, AM Wilson, T Evans, WS Moore, and SB Joye. 2018. Deep oxygen penetration drives nitrification in intertidal beach sands. *Limnology and Oceanography* 63(S1), S193-S208, doi:[10.1002/lno.10731](https://doi.org/10.1002/lno.10731).

9. Saxton MA, VA Samarkin, **CA Schutte**, MW Bowles, MT Madigan, SB Cadieux, LM Pratt, and SB Joye. 2016. Biogeochemical and 16S rRNA gene sequences evidence supports a novel mode of anaerobic methanotrophy in permanently ice-covered Lake Fryxell, Antarctica. *Limnology and Oceanography* 61(S1), S119-S130, doi:[10.1002/lno.10320](https://doi.org/10.1002/lno.10320).
8. **Schutte CA**, AM Wilson, T Evans, WS Moore, and SB Joye. 2016. Methanotrophy controls groundwater methane export from a barrier island. *Geochimica et Cosmochimica Acta* 179, 242-256, doi:[10.1016/j.gca.2016.01.022](https://doi.org/10.1016/j.gca.2016.01.022).
7. **Schutte CA**, SB Joye, AM Wilson, T Evans, WS Moore, and K Casciotti. 2015. Intense nitrogen cycling in permeable intertidal sediment revealed by a nitrous oxide hotspot. *Global Biogeochemical Cycles* 29(10), 1584-1598, doi:[10.1002/2014GB005052](https://doi.org/10.1002/2014GB005052).
6. Wilson AM, T Evans, WS Moore, **CA Schutte**, and SB Joye. 2015. What time scales are important for monitoring submarine groundwater discharge? Insights from a salt marsh. *Water Resources Research* 51(6), 4198-4207, doi:[10.1002/2014WR015984](https://doi.org/10.1002/2014WR015984).
5. Wilson AM, T Evans, WS Moore, **CA Schutte**, SB Joye, AH Hughes, and JL Anderson. 2015. Groundwater controls ecological zonation of macrophytes in salt marshes. *Ecology* 96(3), 840-849, doi:[10.1890/13-2183.1](https://doi.org/10.1890/13-2183.1).
4. Peters B, KL Casciotti, VA Samarkin, MT Madigan, **CA Schutte**, and SB Joye. 2014. Stable isotope analyses of NO<sub>2</sub><sup>-</sup>, NO<sub>3</sub><sup>-</sup>, and N<sub>2</sub>O in the hypersaline ponds and soils of the McMurdo Dry Valleys, Antarctica. *Geochimica et Cosmochimica Acta* 135, 87-101, doi:[10.1016/j.gca.2014.03.024](https://doi.org/10.1016/j.gca.2014.03.024).
3. **Schutte CA**, K Hunter, P McKay, D Di Iorio, SB Joye, and C Meile. 2013. Patterns and controls of nutrient levels in a southeastern United States tidal creek. *Oceanography* 26(3), 132-139, doi:[10.5670/oceanog.2013.55](https://doi.org/10.5670/oceanog.2013.55).
2. Wilson AM, WS Moore, SB Joye, JL Anderson, and **CA Schutte**. 2011. Storm-driven groundwater flow in a salt marsh. *Water Resources Research* 47(2), W02535, doi:[10.1029/2010WR009496](https://doi.org/10.1029/2010WR009496).
1. Grote J, C Bayindirli, K Bergauer, P Carpintero d Moraes, H Chen, L D'Ambrosio, B Edwards, B Fernandez-Gomez, M Hamisi, R Logares, D Nguyen, YM Rii, E Saeck, **CA Schutte**, B Widner, MJ Church, GF Steward, DM Karl, EF DeLong, JM Eppley, SC Schuster, NC Kyrpides, and MS Rappe. 2011. Draft genome sequence of strain HIMB100, a cultured representative of the SAR116 clade of marine *Alphaproteobacteria*. *Standards in Genomic Sciences* 5(3), 269-278, doi: [10.4056/sigs.1854551](https://doi.org/10.4056/sigs.1854551).

#### MANUSCRIPTS SUBMITTED OR IN REVIEW (supervised student coauthor)

2. Arias-Ortiz A, ..., **CA Schutte** (33 of 38 total), ..., and J Holmquist. 2024. Methane fluxes in tidal marshes of the contiguous United States: a synthesis of fluxes and analysis of predictor variables. *Global Change Biology*. Revisions in review.
1. Jones SF, A Arias-Ortiz, D Baldocchi, M Eagle, DA Friess, C Gore, G Noe, S Nolte, P Oikawa, A Paytan, JL Raw, BJ Roberts, K Rogers, **CA Schutte**, C Stagg, KM Thorne, E Ward, L Windham-Myers, and ES Yando. 2024. When and where can coastal wetland restoration increase carbon sequestration as a natural climate solution? *Cambridge Prisms: Coastal Futures*. Submitted.

## BOOK CHAPTERS

2. de Beer D, T Ferdelman, BJ MacGregor, A Teske, and CA Schutte. 2020. Growth patterns of giant deep sea *Beggiatoaceae* from a Guaymas Basin vent site. In: [Marine Hydrocarbon Seeps: Microbiology and Biogeochemistry of a Global Marine Habitat](#), [editors, A. Teske and V Carvalho]. Springer Nature.
1. Schutte CA, S Ahmerkamp, CS Wu, M Seidel, D de Beer, PLM Cook, and SB Joye. 2019. Biogeochemical Dynamics of Coastal Tidal Flats. In: [Coastal Wetlands: An Integrated Ecosystem Approach](#), 2<sup>nd</sup> Edition [editors, G Perillo, E Wolanski, D Cahoon, and C Hopkinson]. Elsevier.

## OTHER SCHOLARLY CONTRIBUTIONS

3. Schutte CA, AK Grow, BJ Roberts. 2021. Carbon dioxide and methane fluxes from experimental salt marsh soil microcosms containing artificial or natural fiddler crab burrows with varying degrees of crude oil contamination. GRIIDC. **Dataset**. doi:[10.7266/YGKY9MT7](https://doi.org/10.7266/YGKY9MT7).
2. Schutte CA, P Huanca-Valenzuela, G Lavik, HK Marchant, and D de Beer. 2021. Advection drives nitrate past the microphytobenthos in intertidal sands, fueling deeper denitrification [Source Code]. CodeOcean. **Dataset**. <https://doi.org/10.24433/CO.1921276.v1>.
1. Schutte CA, WS Moore, AM Wilson, SB Joye. 2020. Surface water and shallow groundwater geochemistry and radium isotopes measured from land-based sampling in coastal Georgia, USA from 2001-07-26 to 2010-09-28 (NCEI Accession 0208686). NOAA National Centers for Environmental Information. **Dataset**. <https://doi.org/10.25921/gfr4-ke64>.

## AWARDS & HONORS

2024	School of Earth and Environment summer student research award (\$4,000)
2023	School of Earth and Environment summer student research award (\$2,000)
2022	<a href="#">Faculty Fellowship Program in Israel</a> (\$6,000), Jewish National Fund
2022	CCCA STORI Fund for science communication project (\$3,000), Rowan University
2021	School of Earth and Environment summer student research award (\$1,500)
2020	<a href="#">Frances R. Lax Fund for Faculty Development</a> (\$1,000), Rowan University
2019	Junior Faculty Travel Fund (\$1,000), Rowan University
2013	Excellence in Research Award, UGA Department of Marine Sciences
2012	Antarctic Service Medal of the United States of America
2008	Graduate School Research Assistantship (\$37,800), University of Georgia

## TEACHING AND MENTORING EXPERIENCE

2021–2023	Oceans in Crisis (5 sections; 116 students)
2020–2023	Field Methods in Environmental Science (4 sections; 27 students)
2020–2022	Supervised undergraduate research projects (4 students)
2021–2022	Graduate committee member (3 students)
2020	Environmental Science Clinic (1 section; 5 students)
2020	Curriculum proposal: Certificate of Undergraduate Studies in Marine Sciences

- 2020 Course proposals: Oceans; Estuaries; Scientific Computing and Analytics in Environmental Science
- 2019 Rowan University Changing Seas summer program
- 2019 Course proposals: Oceans in Crisis; Earth's Environment and Natural Systems; Environmental Support Systems: Fresh Water; Case Studies in Applied Environmental Science
- 2018–2019 LUMCON NSF Research Experience for Undergraduates program (2 students)
- 2015–2016 Max Planck Institute for Marine Microbiology (MPI-MM) field course (2 sections)
- 2016 MPI-MM Masters student lab rotations (2 students)
- 2013–2014 UGA Introduction to the Marine Environment lab (5 sections)
- 2009–2014 Supervised UGA undergraduate research projects (7 students)

### **SERVICE TO THE UNIVERSITY**

- 2022– Rowan University Faculty Senate Research Committee member
- 2022 Faculty search committee member
- 2021– Chair, Department of Environmental Science Facilities and Equipment committee
- 2020– Rowan University liaison to the New Jersey Sea Grant Consortium
- 2021 Faculty search committee member
- 2019 Faculty search committee member

### **SERVICE TO THE WIDER COMMUNITY**

- 2024– New Jersey Sea Grant Consortium Board of Trustees Member at Large
- 2023– Chair-elect, Biogeochemistry Section of the Society for Wetland Scientists
- 2023– Treasurer, Wetland Restoration Section of the Society for Wetland Scientists
- 2023– Student Endowment Chair, Atlantic Estuarine Research Society
- 2017– Student presentation judge or mentor at every scientific conference attended
- 2013– Peer reviewer, 22 manuscripts
- 2020–2024 Rowan University member representative to the New Jersey Sea Grant Consortium
- 2021 Panelist, NSF Chemical Oceanography Program
- 2020 Ad hoc reviewer, NSF Chemical Oceanography Program (2 proposals)
- 2020 AGU Fall Meeting session convener
- 2020 Participant, AGU Biogeosciences section peer mentoring program
- 2018–2019 Volunteer scientist, Skype a Scientist
- 2013 Session co-convener, ASLO Aquatic Sciences conference
- 2008–2013 Volunteer, Georgia Ocean Outreach
- 2011–2012 Instructor, Georgia Coastal Ecosystems LTER Schoolyard Program
- 2009–2012 Organizer, UGA Marine Sciences graduate student seminar series organizer

### **INVITED TALKS**

15. **Schutte CA.** “Let marshes be marshes: a coastal biogeochemist’s perspective on coastal restoration”. Smithsonian Environmental Research Center seminar. April 18, 2024.
14. **Schutte CA.** “Let marshes be marshes: a coastal biogeochemist’s perspective on coastal restoration”. Brown University Department of Earth, Environmental and Planetary Sciences colloquium. March 7, 2024.

13. **Schutte CA.** “Let marshes be marshes: a coastal biogeochemist’s perspective on coastal restoration”. University of Maryland Center for Environmental Science seminar. February 28, 2024.
12. **Schutte CA.** “Let marshes be marshes: a coastal biogeochemist’s perspective on coastal restoration”. University of Florida School of Forest, Fisheries, & Geomatics Sciences seminar. February 16, 2024.
11. **Schutte CA.** “Let marshes be marshes: a coastal biogeochemist’s perspective on coastal restoration”. University of Florida Center for Coastal Solutions seminar. February 15, 2024.
10. **Schutte CA.** “What’s Happening in NJ’s Wetlands?” Series Digs Into Coastal Biogeochemistry”. New Jersey Department of Environmental Protection webinar series. May 4, 2023.
9. **Schutte CA.** “Investigating the interactions between salt marsh soil-based ecosystem services and sea-level rise”. Department of Earth Sciences Seminar. University of Delaware, Newark, Delaware, October 6, 2022.
8. **Schutte CA.** “Sea-level rise and thin layer placement: How they affect salt marsh C and N cycling”. College of Science and Mathematics Sustainability Seminar. Montclair State University, Montclair, New Jersey, September 26, 2022.
7. **Schutte CA.** “Soil nitroge cycling response to salt marsh restoration by thin layer placement”. Department of Biology Seminar. University of North Florida, Jacksonville, Florida, September 23, 2022.
6. **Schutte CA.** “High-resolution exploration of aquatic biogeochemical cycling in the context of global change”. BEES Graduate Research Seminar. Drexel University, Philadelphia, Pennsylvania, January 30, 2020.
5. **Schutte CA.** “Why microsensors are awesome and cool things you can do with them”. Microbiology Catalysis Workshop. LUMCON’s DeFelice Marine Center, Chauvin, Louisiana, May 18, 2018.
4. **Schutte CA.** “Long-term impact of oiling on salt marsh nitrogen cycling processes”. Louisiana State University College of the Coast & Environment seminar. Baton Rouge, Louisiana, April 13, 2018.
3. **Schutte CA.** “Where has all the carbon gone? How the ocean acts as a buffer against climate change”. Kane Allen Memorial Lecture. Arkansas School for Mathematics, Sciences, and the Arts. Hot Springs, Arkansas, October 6, 2017.
2. **Schutte CA, WS Moore, AM Wilson, and SB Joye.** “Submarine groundwater discharge derived fluxes of DIC, CH<sub>4</sub>, and N<sub>2</sub>O from salt marshes to the coastal ocean”. Smithsonian Tropical Research Institute’s Tupper Seminar. Panama City, Panama, Oct. 7, 2014.
1. **Schutte CA and SB Joye.** “Hotspots of methane and nitrous oxide cycling and fluxes and sandy barrier islands”. Skidaway Institute of Oceanography invited seminar. Savannah, GA, December 5, 2013.

## CONTRIBUTED PRESENTATIONS (supervised student coauthor)

51. Guldin J, **CA Schutte**, and L Kipp. “Groundwater-derived nutrient fluxes and coastal mixing rates along the New Jersey coast”. Atlantic Estuarine Research Society meeting. Virginia Institute of Marine Science, March 22, 2024. Oral presentation.
50. Legore R, **CA Schutte**, M Frolio, K Osborne, J Scher, R Trafford, and J Schmalzel. “A novel, low-cost methane datalogger for continuous deployment in wetland soil”. Atlantic Estuarine Research Society meeting. Virginia Institute of Marine Science, March 22, 2024. Poster presentation.
49. Mulford M, **CA Schutte**, J Guldin, J Smith, T Schmidt, and A Archer. “Leaf compost can enhance plant growth and carbon burial in coastal restoration projects”. Atlantic Estuarine Research Society meeting. Virginia Institute of Marine Science, March 22, 2024. Poster presentation.
48. Selim O, **CA Schutte**, K Hate, B Wilburn, J Moody, and M Yepsen. “Ditching alters soil chemistry in southern New Jersey salt marshes”. Atlantic Estuarine Research Society meeting. Virginia Institute of Marine Science, March 22, 2024. Poster presentation.
47. Lipchock M, A Gomez, and **CA Schutte**. “Sudden change in inundation and salinity drives alternate *Spartina alterniflora* response”. Atlantic Estuarine Research Society meeting. Virginia Institute of Marine Science, March 22, 2024. Poster presentation.
46. Gomez A, M Lipchock, and **CA Schutte**. “Sudden changes in salinity and inundation alter marsh photosynthesis and methane emissions”. Atlantic Estuarine Research Society meeting. Virginia Institute of Marine Science, March 22, 2024. Poster presentation.
45. Lesniewski A, **CA Schutte**, R Rossi, S Jones, and B Roberts. “Prolonged periods of exposure increase *Spartina alterniflora* photosynthesis”. Atlantic Estuarine Research Society meeting. Virginia Institute of Marine Science, March 22, 2024. Poster presentation.
44. **Schutte CA**, R Rossi, S Jones, and B Roberts. “Decreased cordgrass metabolic capacity may contribute to widespread salt marsh loss following oil spills”. Gulf of Mexico Conference. Tampa, Florida, February 22, 2024. Oral presentation.
43. **Schutte CA**, M Mulford, J Smith, A Archer, and T Schmidt. “Using leaf compost to enhance thin layer placement: consequences for plant growth and carbon cycling”. Coastal and Estuarine Research Federation Biennial Conference. Portland, Oregon, November 17, 2023. Poster presentation.
42. Hate KR, and **CA Schutte**. “Assessing salt marsh health through potential denitrification rates and drone multispectral imagery”. Coastal and Estuarine Research Federation Biennial Conference. Portland, Oregon, November 17, 2023. Oral virtual presentation.
41. E Leaseburg, AS Wozniak, J Biddle, **CA Schutte**, and K St.Laurent. “The influence of biochar on denitrification potentials across marsh vegetation zones”. Coastal and Estuarine Research Federation Biennial Conference. Portland, Oregon, November 17, 2023. Poster presentation.
40. **Schutte CA**, K Hate, B Wilburn, M Yepsen, K Raper, M Enache, J Smith, A Habeck, and G Sakowicz. “Linking soil and porewater chemistry with aboveground measurements to assess coastal wetland health”. Society of Wetland Scientists Meeting. Spokane, Washington, June 29, 2023. Oral presentation.

39. AS Hatter, M Yepsen, V Lucchese, and **CA Schutte**. “Recovery of salt marsh soil nitrogen cycling process rates following thin layer placement of dredged material”. Atlantic Estuarine Research Society Meeting. Monmouth University, New Jersey, March 25, 2023. Oral presentation.
38. K Hate, B Wilburn, M Yepsen, K Raper, L Lester, M Enache, J Smith, A Habeck, G Sakowicz, and **CA Schutte**. “Assessing salt marsh health through soil and pore water chemistry”. Atlantic Estuarine Research Society Meeting. Monmouth University, New Jersey, March 25, 2023. Oral presentation.
37. **Schutte CA**, AS Hatter, M Yepsen, and V Lucchese. “Does Thin Layer Placement of Dredged Material Alter Salt Marsh Soil Nitrogen Cycling Process Rates?”. Joint Aquatic Sciences Meeting. Grand Rapids, Michigan, May 16, 2022. Oral presentation.
36. Coleman M, B Simon, **CA Schutte**, and M Pierce. “Emergent Sonification, the Anthropocene, and the Sublime Affectations of Computational (Un)Predictability”. Conference of the National Communication Association Conference. Seattle, Washington, November 2021. Competitively selected paper.
35. **Schutte CA**, WS Moore, AM Wilson, and SB Joye. “Groundwater-driven methane export reduces salt marsh blue carbon potential”. American Geophysical Union Fall Meeting. Remote, December 10, 2020. Poster presentation.
34. S Jones, **CA Schutte**, BJ Roberts, and K Thorne. “Coastal wetland soil nitrogen concentrations and process rates respond to management history and fire disturbance”. American Geophysical Union Fall Meeting. Remote, December 10, 2020. Poster presentation.
33. **Schutte CA**. “Designing a data-based capstone course for hybrid or remote learning”. American Geophysical Union Fall Meeting. Remote, December 15, 2020. Poster presentation.
32. **Schutte CA**, RE Rossi, S Jones, and BJ Roberts. “Salt marsh primary production and greenhouse gas fluxes along an experimental oil-exposure gradient”. American Geophysical Union Fall Meeting. San Francisco, California, December 13, 2019. Poster presentation.
31. Roberts BJ, **CA Schutte**, RE Rossi, AE Bernhard, and AE Giblin. “Oiling impacts on salt marsh nitrogen cycling rates: insights from a large-scale marsh mesocosm experiment”. American Geophysical Union Fall Meeting. San Francisco, California, December 13, 2019. Oral presentation.
30. **Schutte CA**, RE Rossi, S Jones, and BJ Roberts. “Salt marsh primary production and greenhouse gas fluxes along an experimental oil-exposure gradient”. Coastal and Estuarine Research Federation Biennial Conference. Mobile, Alabama, November 5, 2019. Oral presentation.
29. Rossi R, C Bourgeois, J Logarbo, **CA Schutte**, and B Roberts. “Gulf ribbed mussels increase saltmarsh cordgrass growth and primary production by increasing N availability”. Coastal and Estuarine Research Federation Biennial Conference. Mobile, Alabama, November 5, 2019. Oral presentation.



28. Roberts B, **CA Schutte**, R Rossi, A Bernhard, and A Giblin. “Oiling impacts on salt marsh nitrogen cycling rates: insights from a large-scale marsh mesocosm experiment”. Coastal and Estuarine Research Federation Biennial Conference. Mobile, Alabama, November 5, 2019. Oral presentation.
27. Jones SF, **CA Schutte**, B Roberts, and KM Thorne. “Water management in Suisun Marsh controls resilience to fire disturbance”. 14<sup>th</sup> Biennial State of the San Francisco Estuary Conference. Oakland, California, October 22, 2019. Poster presentation.
26. Jones SF, **CA Schutte**, B Roberts, and KM Thorne. “Initial responses of Suisun Marsh brackish wetlands to fire disturbance”. Society of Wetland Scientists Annual Meeting. Baltimore, Maryland, June, 2019. Oral presentation.
25. **Schutte CA**, M Rich, J Marton, H Sullivan, R Bledsoe, M Dawson, B Donnelly, and B Roberts. “Spatial patterns in soil biogeochemical process rates along a wetland salinity gradient”. Gulf of Mexico Oil Spill & Ecosystem Science Conference. New Orleans, Louisiana, February 4, 2019. Poster presentation.
24. **Schutte CA**. “Spatial patterns in soil biogeochemical process rates along a wetland salinity gradient”. American Geophysical Union Fall Meeting. Washington DC, December 11, 2018. Oral presentation.
23. Roberts BJ, **Schutte CA**, R Rossi, SF Jones, AE Bernhard, AE Giblin, and EB Overton. “A large-scale salt marsh mesocosm facility to test the effects of disturbances on wetland ecosystem processes”. American Geophysical Union Fall Meeting. Washington DC, December 11, 2018. Poster presentation.
22. **Schutte CA**. “Fiddler crab burrowing and oil pollution alter greenhouse gas fluxes from salt marsh soil”. Gulf Estuarine Research Symposium. Galveston, Texas, November 8, 2018. Oral presentation.
21. **Schutte CA**. “Long-term impact of oiling on salt marsh nitrogen cycling processes”. State of the Coast Conference. New Orleans, Louisiana, May 31, 2018. Oral presentation.
20. **Schutte CA**, A Teske, BJ MacGregor, V Salman-Carvalho, G Lavik, P Hach, and D de Beer. “Filamentous giant *Beggiatoaceae* from Guaymas Basin are capable of both denitrification and dissimilatory nitrate reduction to ammonium (DNRA)”. Association for the Sciences of Limnology and Oceanography Ocean Sciences Meeting. Portland, OR, February 12, 2018. Poster presentation.
19. **Schutte CA**. “Nitrate Reduction Pathways in Filamentous Large Sulfur Bacteria”. Nicholls State University Masters of Biology retreat. DeFelice Marine Center, Chauvin, Louisiana, September 9, 2017. Oral presentation.
18. **Schutte CA**, AM Wilson, T Evans, J Anderson, WS Moore, K Casciotti, and SB Joye. “Intense nitrogen cycling in barrier island groundwater revealed by a nitrous oxide hotspot”. Southeastern Biogeochemistry Symposium. Atlanta, GA, April 5, 2014. Oral presentation.
17. **Schutte CA**, C Meile, D Di Iorio, P McKay, K Hunter, J Blanton, and SB Joye. “Physical and biogeochemical patterns in a saltmarsh/river system (Duplin River, GA). Georgia Water Resources Conference. Athens, GA, April 11, 2013. Oral presentation.

16. **Schutte CA** and SB Joye. “Hotspots of greenhouse gas production in the subterranean estuary”. Association for the Sciences of Limnology and Oceanography Aquatic Sciences Meeting. New Orleans, LA, February 22, 2013. Oral presentation.
15. **Schutte CA**, AM Wilson, JL Anderson, C Meile, P McKay, D Di Iorio, WS Moore, and SB Joye. “Tidally-driven biogeochemical processes in coastal waters”. LTER All Scientists Meeting. Estes Park, CO, September 9, 2012. Oral presentation.
14. **Schutte CA**, C Meile, D Di Iorio, P McKay, K Hunter, J Blanton, and SB Joye. “Physical and biogeochemical patterns in a saltmarsh/river system (Duplin River, GA)”. LTER All Scientists Meeting. Estes Park, CO, September 9, 2012. Poster presentation.
13. **Schutte CA**, AM Wilson, JL Anderson, WS Moore, and SB Joye. “Tidally-driven hotspots of nitrogen cycling in shallow coastal aquifers”. Astrobiology Science Conference. Atlanta, GA, April 17, 2012. Oral presentation.
12. **Schutte CA**, AM Wilson, JL Anderson, WS Moore, and SB Joye. “Hunting the nitrification hotspot: tidally driven nitrogen cycling in beach sands”. Marine Sciences Graduate Student Association sponsored seminar series. Athens, GA, October 26, 2011. Oral presentation.
11. **Schutte CA**, AM Wilson, and SB Joye. “Tidally driven nitrogen cycling in coastal aquifers”. EPA STAR Graduate Fellowship Conference. Washington, DC, September 20, 2011. Poster Presentation.
10. **Schutte CA**, C Meile, D Di Iorio, P McKay, SB Joye, J Blanton, and J Schalles. “Physical and biogeochemical patterns in the Duplin saltmarsh river system: preliminary results”. LTER Science Council Meeting. Jekyll Island, GA, May 18, 2011. Poster Presentation.
9. **Schutte CA**, and SB Joye. “High rates of nitrogen cycling processes in shallow coastal aquifers”. American Society of Limnology and Oceanography Aquatic Sciences Meeting. San Juan, Puerto Rico, February 15, 2011. Oral Presentation.
8. **Schutte CA** and L D’Ambrosio, A Altunkay, C Bayindirli, K Bergauer, P Carpintero de Moraes, H Chen, B Edwards, B Fernandez Gomez, J Grote, M Hamisi, R Logares, D Nguyen, Y Rii, E Saeck, and B Widner. “Bloom chasing: biological response to mesoscale eddies in the North Atlantic Subtropical Gyre”. American Society of Limnology and Oceanography Aquatic Sciences Meeting. San Juan, Puerto Rico, February 15, 2011. Poster Presentation.
7. **Schutte CA**, and SB Joye. “High rates of nitrogen cycling processes in shallow coastal aquifers”. Marine Sciences Graduate Student Association sponsored seminar series. Athens, GA, February 10, 2011. Oral presentation.
6. **Schutte CA**, C Meile, and SB Joye. “Groundwater transport and transformation in the Duplin River watershed.” Georgia Coastal Ecosystems Long Term Ecological Research annual meeting. Athens, GA, January 5, 2011. Oral Presentation.
5. **Schutte CA**, WS Moore, AM Wilson, and SB Joye. “Nitrogen cycling and trace gas dynamics in coastal aquifers.” Goldschmidt Conference. Knoxville, TN, June 15, 2010. Poster Presentation.
4. **Schutte CA**, WS Moore, AS Wilson and SB Joye. “Nitrogen cycling and trace gas dynamics in coastal aquifers”. Marine Sciences Graduate Student Association sponsored seminar series. Athens, GA, January 20, 2010. Oral presentation.

3. **Schutte CA**, WS Moore, AS Wilson and SB Joye. “Spatio-temporal variations in groundwater biogeochemistry and flux to the coastal ocean”. Third International Conference on Aquatic Resources. Alexandria, Egypt, November 19, 2009. Oral presentation.
2. **Schutte CA**, WS Moore, AS Wilson and SB Joye. “Mechanisms for variability in groundwater nutrient flux to estuaries and the coastal ocean”. 2009 Long Term Ecological Research All Scientists Meeting. Estes Park, CO, September 15, 2009. Poster presentation.
1. **Schutte CA**. “An introduction to groundwater research in the GCE-LTER”. Marine Sciences Graduate Student Association sponsored seminar series. Athens, GA, January 21, 2009. Oral presentation.