

Megan Elizabeth Jane Lott

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Education

- 2018-Present **College of Public Health, University of Georgia**
PhD Student, Department of Environmental Health Sciences
Doctoral research under the advisement of Dr. Erin Lipp:
Wastewater-based epidemiology of SARS-CoV-2 in Athens, Georgia
Influence of bacterial-algal interactions on *Vibrio* ecology in the Indian River Lagoon
- 2017-2018 **Gillings School of Global Public Health, University of North Carolina – Chapel Hill**
MS, Environmental Sciences and Engineering
Masters research under the advisement of Dr. Mark Sobsey and Dr. Jill Stewart:
Development of a field detection method for *Vibrio cholerae* in drinking water
- 2013-2017 **Gillings School of Global Public Health, University of North Carolina – Chapel Hill**
BSPH, Environmental Health Science
Undergraduate research assistant under the direction of Dr. Mark Sobsey

Fellowships

- 2018-2023 University of Georgia Presidential Fellowship
- 2019-2023 NSF-NRT Fellow, Interdisciplinary Disease Ecology Across Scales Program
- 2020 UGA Blue Key National Honor Society
- 2019 Link Foundation/Smithsonian Institution Graduate Fellowship

Honors and Awards

- 2021 George Hugh Boyd Memorial Scholarship (\$2,000)
- 2021 Interdisciplinary Disease Ecology Across Scales (IDEAS) Small Grant (\$1,500)
- 2021 UGA Graduate School Summer Research Award (\$1,400)
- 2021 UGA Sustainability Grant (\$2,500)
- 2020 UGA Communication of Research and Scholarship Grant (\$1,490)
- 2020 UGA Graduate Student Travel Award (\$2,300)
- 2019 UGA College of Public Health Travel Award (\$500)
- 2019 UGA Graduate School Summer Travel Award (\$1,750)
- 2019 UGA Graduate School Innovative and Interdisciplinary Research Grant (\$2,000)
- 2019 UGA College of Public Health Community Mini-Grants, Co-Author (\$1,000)
- 2019 Honorable Mention, National Science Foundation Graduate Research Fellowship
- 2017 Alternate, Carolina Global Initiatives Award
- 2013-2017 Carolina Covenant Scholar: Need-Based Scholarship for Low-Income Students
- 2013-2017 Carolina Firsts: First Generation College Student

Publications

Pre-Print Publications:

1. Bivins, A.; **Lott, M.**; Shaffer, M.; Wu, Z.; North, D.; Lipp, E.; Bibby, K. Building-Level Wastewater Monitoring for COVID-19 Using Tampon Swabs and RT-LAMP for Rapid SARS-Cov-2 RNA Detection. Preprints 2021, 2021050381 (doi: 10.20944/preprints202105.0381.v1).
2. Megan S. Beaudry, Julia C. Frederick, **Megan E. J. Lott**, William A. Norfolk, Travis C. Glenn, Erin K. Lipp. Effectiveness of an Ozone Disinfecting and Sanitizing Cabinet to Decontaminate a Surrogate Virus for SARS-CoV-2 on N-95 Masks. medRxiv 2020.11.04.20226233; doi: <https://doi.org/10.1101/2020.11.04.20226233>

Seminar Presentations

- 2021 *From Sea to Sewer: Microbial Monitoring in the Natural and Built Environments*. University of Georgia. Department of Environmental Health Sciences Departmental Seminar. April 23, 2021.
- 2021 *Wastewater Surveillance for SARS-CoV-2 in Athens, GA*. Farmingdale State College. Department of Biology Departmental Seminar. March 30, 2021.
- 2020 *SEC TOWN: Sewage-based Epidemiology in a College Town*. NSF Research Coordination Network: Wastewater Surveillance for SARS-CoV-2. Seminar Series. November 4, 2020.
- 2019 *Bloom or Bust: Influence of Harmful Algal Blooms on Vibrio Ecology in Florida's Estuaries*. Smithsonian Marine Station. Link Fellow Seminar Series. August 13, 2019.

Conference Presentations

1. **Lott, M.**, Norfolk W, Foley A Robertson M, & Lipp E. 2020. *Wastewater Surveillance for SARS-CoV-2 in Athens, GA*. Oral Presentation. Georgia Water Resources Conference. March 23, 2021.
2. **Lott, M.**, Wetz, M., Lipp, E.K. *Bloom or Bust: Influence of Harmful Algal Blooms on Vibrio Ecology in Florida's Estuaries*. Poster Presentation. Gordon Research Seminar (GRS). Les Diablerets, Switzerland. Postponed due to COVID-19.
3. **Lott, M.**, Wetz, M., Lipp, E.K. *Bloom or Bust: Influence of Harmful Algal Blooms on Vibrio Ecology in Florida's Estuaries*. Poster Presentation. American Society for Microbiology. Chicago, Illinois. Cancelled due to COVID-19.
4. **M Lott**, K Weiss, and MD Sobsey. *Direct One-Step Culture Detection of Vibrio cholerae in Drinking Water in Low-Resource and Disaster Settings*. Poster Presentation. UNC Water Microbiology Conference, Chapel Hill, NC, May 15, 2017.

Guest Lectures

- 2021 Environmental Microbiology: *Wastewater-based Epidemiology*
2021 Introduction to Environmental Health Science: *What to do with the Poo?*
2020 Public Health Microbiology: *Wastewater-based Epidemiology*
2020 First Year Odyssey: *Wastewater-based Epidemiology*
2017 Microbiology: *Introduction to Epidemiology*

Community Service & Engagement

- Present **Well Connected Communities, UGA Extension** ([Link](#))
Intern
- 2018-Present **Georgia Scientific Research and Education Network** ([Link](#))
2019 – Present *Chair*
2018 – 2019 *Leadership Team*
- 2018-Present **Torrance Center at The University of Georgia** ([Link](#))
Instructor
- 2019-Present **Environmental Health Science Graduate Student Association** ([Link](#))
2019 - *Co-President*
2020 - *Outreach Chair*

Academic Service & Engagement

- 2020-2021 UGA College of Public Health's Graduation Education Committee
2019-2020 UGA College of Public Health Course Approval Committee

Mentorship and Teaching Experience

- 2018-Present **Graduate Student Mentor, University of Georgia**
Mentored for UGA Undergraduate Academic Research (Dpt. Environmental Health Sciences) and for UGA CURO Assistantship
- 2016-2018 **Graduate Student Mentor, Environmental Health Microbiology Laboratory**
Trained seven undergraduate students in environmental microbiology, mentored for UNC Undergraduate Academic Research (Dpt. of Biology, Dpt. of Chemistry), for UNC Honors Research, and for UNC Summer Undergraduate Research Fellowship
- SS 2018 **Graduate Teaching Assistant, BIOL 205: Cell and Developmental Biology (UNC)**
Led daily recitations for 30 students on primary literature and research methods
- SP 2018 **Graduate Teaching Assistant, BIOL 202: Genetics (UNC)** Led four weekly recitations (25 students each) on genetics, molecular methods, and bioethics
- FA 2017 **Graduate Teaching Assistant, BIOL 422: Microbiology (UNC)** Instructed research-based laboratory course in microbiology (16 students), designed and proctored exams