

Keri Ann Lydon, PhD, MPH

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CURRICULUM VITAE

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EDUCATION

PhD	2017	Environmental Health Science, University of Georgia, Athens, GA
MPH	2013	Environmental Health Sciences, University of South Carolina, Columbia, SC
BS	2011	Marine Science, Concentration in Biological Oceanography, University of South Carolina, Columbia, SC

EXPERIENCE

2022 - present	Lecturer, Dept. of Environmental Health Science, University of Georgia, Athens, GA
2019 - 2022	Biologist, Gulf Coast Seafood Lab, U.S. FDA, Dauphin Island, AL
2018 - 2019	ORISE Fellow, Gulf Coast Seafood Lab, U.S. FDA, Dauphin Island, AL
2017 - 2018	Post-doctoral Research Associate, University of Wisconsin-Milwaukee, Milwaukee, WI
2013 - 2017	Graduate Research Assistant, Dept. of Envir. Health Science, UGA, Athens, GA
2013 - 2015, 2017	Teaching Assistant/Lab Instructor, Dept. of Envir. Health Science, UGA, Athens, GA
2013	ORISE Research Intern, Gulf Coast Seafood Lab, U.S. FDA, Dauphin Island, AL
2013	Student Research Intern, Center for Coastal Environmental Health and Biomolecular Research, NOAA, Charleston, SC

PUBLICATIONS

Peer Refereed Journals

1. **Lydon, K.A.**, Kinsey, T., Le, C., Gulig, P., Jones, J.L. 2021. Biochemical and Virulence Characterization of *Vibrio vulnificus* from Clinical and Environmental Sources. *Frontiers in Cellular and Infection Microbiology*. 11:637019.
2. Codello, A., McLellan, S.L., Steinberg, P., Potts, J., Scanes, P., Ferguson, A., Hose, G.C., Griffith, M., Roguet, A., **Lydon, K.A.** and Maher, W.A. 2021. A weight-of-evidence approach for identifying potential sources of untreated sewage inputs into a complex urbanized catchment. *Environmental Pollution*, 116575.
3. Jones, J.L., **Lydon, K.A.**, William C. Walton. 2020. Effect of Ploidy on *Vibrio parahaemolyticus* and *Vibrio vulnificus* Levels in Cultured Oysters. *Journal of Food Protection*. 83(11):2014-2017.
4. **Lydon, K.A.** and Lipp, E.K. 2018. Taxonomic annotation errors incorrectly assign the family Pseudoalteromonadaceae to the order Vibrionales in Greengenes: implications for microbial community assessments. *PeerJ* 6: e5248. (Equal first authorship).
5. **Lydon, K.A.**, Robertson, M.J., and Lipp, E.K. 2018. Patterns of triclosan resistance in Vibrionaceae. *PeerJ* 6: e5170.

6. Wang, S., **Lydon, K.A.**, White, E.M., Grubbs III, J.B., Lipp, E.K., Locklin, J., and Jambeck, J.R. 2018. Biodegradation of Poly (3-hydroxybutyrate-co-3-hydroxyhexanoate) Plastic under Anaerobic Sludge and Aerobic Seawater Conditions: Gas Evolution and Microbial Diversity. *Environmental Science & Technology*. 52(10): 5700-5709.
7. **Lydon, K.A.**, Glinski, D.A., Westrich, J.R., Henderson, W.M., and Lipp, E.K. 2017. Effects of triclosan on bacterial community composition and *Vibrio* populations in natural seawater microcosms. *Elementa: Science of the Anthropocene*. Special Feature: Oceans and Human Health in a Changing Environment.
8. Jones, J.L., **Lydon, K.A.**, Kinsey, T.P., Friedman, B., Curtis, M., Schuster, R., and Bowers, J.C. 2017. Effects of ambient exposure, refrigeration, and icing on *Vibrio vulnificus* and *Vibrio parahaemolyticus* abundances in oysters. *International Journal of Food Microbiology* 253:54-58.
9. Kinsey, T.P., **Lydon, K.A.**, Bowers, J.C., and Jones, J.L. 2015. Effects of Dry Storage and Resubmersion of Oysters on Total *Vibrio vulnificus* and Total and Pathogenic (tdh+/trh+) *Vibrio parahaemolyticus* Levels. *Journal of Food Protection* 78(8): 1574-1580.
10. **Lydon, K.A.**, Farrell-Evans, M., and Jones, J.L. 2015. Evaluation of Ice Slurries as a Control for Postharvest Growth of *Vibrio* spp. in Oysters and Potential for Filth Contamination. *Journal of Food Protection* 78(7): 1375-1379.

Manuscripts In-Review

None.

Manuscripts In-Prep

1. Ellet, A., **Lydon, K.A.**, Lynn, S., Jacobs, J., Jones, J.L., Stryker, K. Whole Genome Sequencing and Analysis of *Vibrio parahaemolyticus* Isolates from Alaskan Oysters. *In-preparation for submission to Frontiers in Marine Science*
2. **Lydon, K.A.**, Grim, C., Lipp, E.K. *Vibrio navarrensis* isolated from Coastal Canal in FL Keys Genome. *In-preparation for submission to Microbiology Resource Announcements*.
3. **Lydon, K.A.**, Bucher, M.G., Robertson, M., Smith, K., Lipp, E.K. Spatial and Temporal Dynamics of Microbial Community Taxa in a Tidally Mixed Estuary. *In-preparation for submission to Frontiers in Microbiology*.

TEACHING

Teaching Recognition

2017 Outstanding Teaching Assistant Award, University of Georgia, Athens, GA

Course Design and Development

Undergraduate

EHSC 3700 Water Quality Investigations on Campus, University of Georgia
 EHSC 4200 Global Climate Change and Public Health, University of Georgia

Undergraduate: Non-Majors

FRSHWTR 190 Our blue planet and us: water in our changing world, University of WI- Milwaukee

Previous Courses taughtUniversity of Wisconsin-Milwaukee

Instructor	FRSHWTR 190	Our Blue Planet and Us: Water in our Changing World	Spring 2018
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University of Georgia

Instructor	EHSC 3700	Water Quality Investigations on Campus	Spring/Fall 2014
Teaching Assistant	EHSC 4310/6310	Environmental Microbiology	Spring 2014/15/17
Lab Instructor	EHSC 4310L/6310L	Environmental Microbiology Laboratory	Spring 2014/15/17
Guest Lecturer	EHSC 7310	<i>Bacterial Pathogens</i> , Public Health Microbiology	Fall 2016
Teaching Assistant	EHSC 8310	Aquatic Microbiology, Health & the Environment	Fall 2013/2015

Mentoring

2019-22 Trained graduate students from Dauphin Island Sea Lab during their cooperative fellowships with the FDA. Topics included next-generation sequencing, bioinformatics, and molecular techniques at the Gulf Coast Seafood Lab. Taught internal and external collaborators genomic sequence processing and analysis via Zoom and in-person.

2017-18 University of Wisconsin-Milwaukee, School of Freshwater Sciences. Mentor for three graduate students and one undergraduate intern. Provided revisions and comments on scientific writing including abstracts, posters, grants, and manuscripts. Provided advice and feedback on approaches used for experimental design in laboratory experiments.

2013-17 University of Georgia, Department of Environmental Health Science. Microbiology skills mentor for five undergraduate research assistants. Introductory level instruction of hands on laboratory skills in both culture-based and molecular microbiology. Assisted MPH student on antibiotic resistance practicum project.

SERVICE**Service Activities**

2020	Session Organizer and Moderator of “ <i>Water and Foodborne Pathogens in the Environment</i> ” for the American Society for Microbiology Microbe 2020 Conference. Held Virtually due to COVID-19 Pandemic.
2020	Abstract Reviewer for the American Society for Microbiology Microbe Conference 2020
2019	Panel reviewer for the Mississippi Based RESTORE Act Center of Excellence (MBRACE) Competitive Research Program 2020 funding cycle.
2019	Travel Award Reviewer for American Society for Microbiology Microbe 2019 Conference.
2019	Abstract Reviewer for the American Society for Microbiology Microbe 2019 Conference.
2019-22	Member, CFSAN Micro- and Nanoplastics in Food Work Group
2018	Preparing to be a Professional Workshop, Engaging Girls in STEM, Milwaukee, WI

- 2017-18 Member, Scientific Advisory Council and TMDL Bacterial Working Group, Sweet Water Southeastern WI Watersheds Trust, Milwaukee, WI.
- 2017-18 Task Force Scientist for the Milwaukee Metropolitan Sewerage District, Milwaukee, WI.
- 2015-16 Junior Division Judge, Georgia Science and Engineering Fair, Athens, GA.
- 2015 Poster Judge, Southeastern Estuarine Research Society Spring Meeting, Jacksonville, FL.
- 2015 Water Quality Outreach Hands on Workshop, Double Helix Academy, Athens, GA
- 2015 Water Quality Outreach Hands on Workshop, Experience UGA, Athens-Clarke County High Schools, Athens, GA
- 2013-17 Water Quality Assessment, Upper Oconee Watershed Network, Athens, GA.
- 2013 Poster Judge, Southeastern Estuarine Research Society, Charleston, SC.

Membership in Professional Societies

American Society for Microbiology

AD HOC Reviewer for Professional Journals

Applied and Environmental Microbiology

BMC Microbiology

Environmental Monitoring and Assessment

Environmental Pollution

FEMS Microbiology Ecology

Food Analytical Methods

Frontiers in Bioinformatics

Frontiers in Microbiology

Journal of Great Lakes Research

mSphere

PeerJ

RESEARCH GRANTS AND AWARDS

- 2018-19 ORISE Research Fellowship, Oak Ridge Institute for Science and Education
- 2018 Postdoctoral Travel Award, American Society for Microbiology, Microbe 2018
- 2017 Outstanding Teaching Assistant Award, University of Georgia, Athens, GA
- 2016 Conference Travel Grant, University of Georgia Graduate School, Athens, GA
- 2016 Conference Travel Grant, PPCPs in the Environ. Conference, Uni. of Illinois, Champaign, IL.
- 2015 Public Service and Outreach Fellowship, Georgia Marine Extension and GA Sea Grant
- 2015 Outstanding Student Poster, American Society for Microbiology Annual Meeting
- 2015 Student Travel Award, American Society for Microbiology Annual Meeting
- 2015 Student Conference Travel Award, Southeastern Estuarine Research Society
- 2014/15 Innovative and Interdisciplinary Research Grant, University of Georgia Graduate School, *Impacts of triclosan from wastewater treatment plant on estuarine microbial ecology and the prevalence of the marine pathogen, Vibrio* (2 awards)
- 2014/15 Grant-in-Aid of Research, Sigma Xi, *The antimicrobial triclosan as a selective agent for the marine pathogen, Vibrio, in urban coastal waters* (2 awards)
- 2014 Melbourne Carriker Student Research Grant, National Shellfisheries Association, *Triclosan pollution impacts on intrinsically resistant Vibrios*
- 2013 Campus Sustainability Grant, University of Georgia, *Water quality on Campus and beyond: Using service learning to monitor and improve water quality on campus*

2011 Environmental Health Science Scholarship, Arnold School of Public Health, University of South Carolina

PRESENTATIONS

National Meetings

1. Hayes, M., **Lydon, K.A.**, May, S., McGough, M.D., Benner, Jr. R.A., and Björnsdóttir-Butler, K. 2020. Bacterial Communities Associated with Shrimp Decomposition During Storage at 4°C and 36°C. International Association for Food Protection. Poster. Virtually held due to COVID-19.
2. **Lydon, K.A.**, Hayes, M., Benner, R.A., and Björnsdóttir-Butler, K. 2019. Changes in Shrimp Microbiome During Low Temperature Decomposition. American Society for Microbiology Microbe. San Francisco, CA. June. Poster.
3. **Lydon, K.A.**, Bootsma, M., and McLellan, S. 2018. Wastewater Treatment Plant Effluent Indicators for Assessing Effluent Dominated Waters. American Society for Microbiology Microbe Atlanta, GA. June. Poster + Selected for Symposium Oral Presentation.
4. **Lydon, K.A.**, Wang, S., Lipp, E.K., and Jambeck, J. 2017. Microbial communities associated with polyhydroxyalkanoate bioplastic degradation. American Society for Microbiology Microbe. New Orleans, LA. June. Poster + Selected for Rapid Fire Talk.
5. Ghazaleh, M.N., Westrich, J., Kemp, K., **Lydon, K.**, and Lipp, E.K. 2017. Oligotyping Reveals Hidden Diversity in *Vibrio* spp. Bloom after Saharan Dust Nutrient Input. American Society for Microbiology Microbe. New Orleans, LA. June. Poster.
6. **Lydon, K.A.** and Lipp, E.K. 2015. Characterization of Triclosan Resistance in *Vibrio* bacteria. American Society for Microbiology General Meeting. New Orleans, LA. May. Outstanding Student Poster Award

State and Regional Meetings

7. **Lydon, K.A.** 2018. Impacts of wastewater discharge on coastal microbial communities. Milwaukee Microbiology Society. Milwaukee, WI. Invited Talk.
8. Robertson, M., **Lydon, K.A.**, and Lipp, E.K. 2018. Multiple antibiotic resistance among *Vibrio* species. Dept. of Environmental Health Sciences Student Showcase, UGA, Athens, GA. March. Poster.
9. **Lydon, K.A.** and Lipp, E.K. 2017. Spatial and temporal dynamics of wastewater microbial community taxa in a tidally mixed estuary. Navigating the Future of Water Conference, Milwaukee, WI. October. Poster.
10. Edwards, E., Westrich, J., **Lydon, K.A.**, Oladeinde, A., Rozier, R.S., and Lipp, E.K. 2016. Water Quality Microbiology Research in Environmental Health Science at UGA. Upper Oconee Science and Policy Summit. Athens, GA. September. Poster.
11. Robertson, M., **Lydon, K.A.**, and Lipp, E.K. 2016. Examining a Possible Link Between Triclosan Resistance and Antibiotic Resistance in Presumptive *Vibrio* Isolates. College of Public Health Capstone Research Day. Athens, GA. May. Poster.
12. **Lydon, K.A.**, Glinski, D., Smith, K., Henderson, W.M., and Lipp, E.K. 2016. Effect of Triclosan on Bacterial Community and *Vibrio* Dynamics in Coastal Environments. PPCPs in the Environment Conference. Champaign, IL. April. Poster.

13. **Lydon, K.A.**, Glinski, D., Smith, K., Henderson, W.M., and Lipp, E.K. 2016. Effect of Triclosan on Bacterial Community and *Vibrio* Dynamics in Coastal Environments. Dept. of Environmental Health Sciences Seminar. Athens, GA. April.
14. **Lydon, K.A.** and Lipp, E.K. 2016. Characterization of Triclosan Resistance in *Vibrio* bacteria. UGA Dept. of Environmental Health Science Student Research Showcase. Athens, GA. March. Poster.
15. Ghazaleh, M., Westrich, J., **Lydon, K.**, Kemp, K., and Lipp, E. 2016. Oligotyping reveals hidden diversity in opportunistic pathogen *Vibrio spp.* bloom after Saharan dust nutrient input. UGA Dept. of Environmental Health Science Student Research Showcase. Athens, GA. March. Poster.
16. **Lydon, K.A.** and Lipp, E.K. 2015. Selection of *Vibrio* bacteria under pressure of triclosan in coastal ecosystems. Southeastern Estuarine Research Society Meeting. Jacksonville, FL. March.
17. Eberhard, T. and **Lydon, K.** 2014. What's in the Water? *Escherichia coli* bacteria in the University of Georgia Watershed. 68th Annual Interstate Environmental Health Seminar, Georgia Environmental Health Association. Savannah, GA. July. Poster.
18. **Lydon, K.A.**, Moore, J.G., and DeLorenzo, M.E. 2013. Characterization of *Vibrio vulnificus* (environmental, clinical) and *Vibrio parahaemolyticus* (environmental) isolates for antibiotic resistance in the Southeastern United States. South Carolina Branch of the American Society for Microbiology Annual Spring Meeting, Charleston, SC. April. Poster.

ADDITIONAL TRAINING

1. *DAWG Ally: LGBTQIA+ Support Training*. 2022. Pride Center, University of Georgia, Athens, GA.
2. *Facilitating Adult Online Learning*. 2022. College of Public Health, University of Georgia, Athens, GA
3. *Master the Fundamentals of AI and Machine Learning: Learning Path*. 2022. LinkedIn Learning.
4. *Create and Deliver Engaging Presentations: Learning Path*. 2021. LinkedIn Learning
5. *Building Trust and Collaborating with Others: Learning Path*. 2021. LinkedIn Learning.
6. *GalaxyTrakr Training*. 2019. CFSAN Bioinformatics Team via webinar at GCSL, Dauphin Island, AL
7. *Microbiome Analysis Workshop*. 2019. Institute of Genome Sciences at the University of Maryland Medical School, Baltimore, MD.
8. *Masterclass in Scientific Writing and Publishing*. 2018. Training Given by Springer Nature at the University of Wisconsin Milwaukee School of Freshwater Sciences, Milwaukee, WI.
9. *Microbiome Informatics Workshop: 16S and Metagenomic Sequence Analysis with QIIME2 and Anvi'o*. 2017. Wisconsin Medical College, Wauwatosa, WI.
10. *Analyses of Microbial Community Composition and Metagenomics Using QIIME*. 2015. Training given at the American Society for Microbiology Annual Meeting in New Orleans, LA.
11. *Service-Learning Course Design*. Office of Service Learning, University of Georgia, Athens, GA.
12. *Galaxy Workshop*. 2014. Institute of Bioinformatics, University of Georgia, Athens, GA.
13. *Green Infrastructure Workshop*. 2013. Training given at the Coastal Center for Environmental Health and Biomolecular Research, NOAA, Charleston, SC.