

Emily Taylor Dodd

628 S Austin Blvd

Phone: 706-766-6716

Email: edodd3@uic.edu, ed01368@georgiasouthern.edu

Website: emilytdodd.weebly.com

EDUCATION

Georgia Southern University
B.S. Biology, Chemistry minor
August 2012 to May 2016

University of Illinois at Chicago
M.Sc. Biological Sciences
August 2016 to May 2019

RESEARCH SKILLS

Statistical & phylogenetic analysis in R software, Python, HTML, Microsoft Excel, Microsoft Word, DNA extraction, PCR, gel electrophoresis, animal husbandry, fish necropsy & parasite identification, fluorescence microscopy, bioinformatic analysis of NGS sequence data, techniques associated with quantifying fish behavior, fish tagging, fish anesthesia, science communication, experience with high-performance computing platforms

EXPERIENCE

- **Graduate Researcher**, August 2016—May 2019
University of Illinois at Chicago, Department of Biological Sciences
Advisor: Rachel Poretsky
Thesis: Influences of aquaculture water additives on the larval sablefish (*Anoplopoma fimbria*) skin microbiome
- **Supplemental Instruction (SI) Leader**, January 2016—May 2016
Georgia Southern University, Department of Chemistry
Courses: Comprehensive Chemistry
- **Teaching Assistant**, August 2015—May 2019
University of Illinois at Chicago, Department of Biological Sciences (*August 2016 to May 2019*)
Courses: Genetics Laboratory; Biology of Cells & Organisms, Ecology Laboratory, Ecology & Evolution, Animal Physiology, Comparative Vertebrate Anatomy, Mendelian and Molecular Genetics
Georgia Southern University, Department of Chemistry (*August 2015 to May 2016*)
Courses: General Chemistry I; Comprehensive Chemistry
- **Laboratory Prep Technician**, August 2015—May 2016
Georgia Southern University, Department of Chemistry
Courses: General Chemistry I; General Chemistry II
- **Undergraduate Research Assistant**, January 2014—May 2015
Georgia Southern University, Department of Biology
Advisor: Tavis Anderson

Thesis: The relationship between parasite infection and behavior of marsh killifish, *Fundulus heteroclitus*.

- **Veterinary Intern**, June 2013 to August 2013
Summerville Veterinary Clinic. Summerville, Georgia.
Duties: Ran diagnostics assays including heartworm and feline leukemia for patients. Prepared and examined fecal samples. Administered vaccines and necessary medication post-surgery.

HONORS AND AWARDS

- **March 2018** Finalist for UIC 3 Minute Thesis Competition
- **November 2017** UIC Graduate College Student Presenters \$200 Travel Award
- **November 2017** UIC Graduate Student Council \$275 Travel Award
- **July 2017** UIC Department of Biological Sciences \$600 Travel Award
- **February 2015** American Atheists 2014-2015 \$500 Chinn Scholarship

PROFESSIONAL SOCIETY MEMBERSHIPS

- Alpha Chi Sigma Professional Chemistry Fraternity
- Sigma Alpha Iota International Music Fraternity
- Beta Beta Beta Biological Honors Society

SERVICE AND MEDIA

Illinois Science Council (<https://www.illinoisscience.org/>)

Volunteer, May 2018—Present

Communicating Science Chicago (ComSciCon Chicago, <https://comscicon.com/>)

Organizer, December 2017—Present

Attendee, August 2017

The Science Café (thesciencecafe.com)

Contributing Writer, August 2017—Present

Social Media Director, August 2017—Present

Web Developer, March 2018—Present

Honors @ Georgia Southern Magazine

Staff writer, 2013-2014

PROFESSIONAL PRESENTATIONS

Dodd, E., Pierce, M., Lee, J., and Poretzky, R. October 2018. Microbiomes of sablefish larviculture: The differential effects of common water additives. The Annual Meeting of the Illinois Association of Community College Biologists. Oglesby, Illinois.

POSTER PRESENTATIONS

Dodd, E.T., Pierce, M.L., Lee, S.F., and Poretsky, R.S. April 2018. Larval sablefish (*Anoplopoma fimbria*) skin microbiome shifts microbial communities in tanks. UIC Student Research Forum. Chicago, Illinois

Dodd, E., Smith, A., Chancellor, S., Tucker, W., Cunje, A., Schassburger, A., Gefeke, K., Hsieh, S., Bellagamba, A., Pasterski, M., and Plotnick, R. March 2018. Historical extirpations following anthropogenic changes to Chicago area wetlands and water bodies. Second City Anthropology Conference. Chicago, Illinois

Dodd, E., Pierce, M., Lee, J., and Poretsky, R. September 2017. Influences of aquaculture additives on the skin microbiome of larval sablefish. 15th Symposium on Aquatic Microbial Ecology. Zagreb, Croatia.

Dodd, E., Barrett, H., Kimbrell, C., and Florence, J. April 2013. Animal-assisted therapy with prisoners and substance abuse. Georgia Southern University Honors Research Symposium. Statesboro, Georgia.

PUBLICATIONS

Pierce, M.L., Lee, J.S., **Dodd, E.**, & Poretsky, R.S. (2019). Algae and Clay Water Additives Differentially Impact Survival and Microbial Community Structure in Sablefish (*Anoplopoma fimbria*) Rearing Tanks. *Frontiers in Marine Science – Microbial Symbioses*. 6. doi: 10.3389/fmars.2019.00203.

Dodd, E., Pierce, M.L., Lee, J.S., & Poretsky, R.S. (*in prep*). Influences of claywater and greenwater on skin microbiome of cultured larval sablefish (*Anoplopoma fimbria*).

Plotnick, R., Bellagamba, A., Chancellor, S., Cunje, A., **Dodd, E.**, Gefeke, K., Hsieh, S., Pasterski, M., Schassburger, A., Smith, A., & Tucker, W. (*in prep*). Historical extirpations and introductions in Chicago area wetlands, rivers, and lakes.

REFERENCES

Tavis K. Anderson, Ph.D.

ORISE Scientist

Virus and Prion Research Unit

National Animal Disease Center, USDA-ARS

1920 Dayton Ave, Ames IA 50010

Ph: +1-515-337-6821; tavis.anderson@ars.usda.gov

web: <https://andersonlab.wordpress.com>

Rachel Poretsky, Ph.D.

Assistant Professor
Department of Biological Sciences
University of Illinois at Chicago
840 W. Taylor St, SEL 4100
Chicago, IL 60607
Ph: +312-355-5102; microbe@uic.edu

Melissa Pierce, Ph.D.
Postdoctoral Research Associate
Department of Biological Sciences
840 W. Taylor St, SEL 4100
Chicago, IL 60607
mlp16@uic.edu