

Lucy E Delaney

graduate student in biological sciences

contact

ldelan5@uic.edu

website

ledelaney.github.io/

github

ledelaney

programming

R

document markup

LaTeX, HTML & CSS, R
Markdown

software

Adobe Illustrator,
Microsoft Office Suite

licenses

Illinois Substitute
Teaching, FCC
Technician Class Radio

Interests

Conceptual understanding of evolutionary principles, R for undergraduate education, macroevolution, the evolution of plant breeding systems, data manipulation & visualization with tidyverse

Education

PhD candidate in Ecology & Evolutionary Biology

University of Illinois at Chicago

Dissertation: *The Nature of Adaptation and the Epistemology of Natural Selection*

MA in Molecular & Cellular Biology, 2016

Hunter College (CUNY)

BS in Forensic Molecular Biology, Philosophy, 2012

John Jay College (CUNY)

University Teaching

BIOS 220 Mendelian and Molecular Genetics

Fall 2019 - Summer 2020

Sophomore-level course focusing on Mendelian inheritance patterns and molecular mechanisms of inheritance. Helped managed transition from in-person to online delivery. Responsible for teaching discussion section, creating digital course materials & exams, grading, and Blackboard administration.

BIOS 331 General Ecology Laboratory

Summer 2019

Application of ecological and evolutionary concepts with hands-on experiments and field trips to local natural areas. Responsible for weekly laboratory instruction, office hours, and grading.

BIOS 230 Ecology and Evolution

Spring 2019

Sophomore-level course with emphasis on basic ecological systems, ecosystem dynamics, and evolutionary principles. Responsible for weekly office hours, assignment creation, and grading.

BIOS 430 Evolution

Fall 2017 - Fall 2018

Upper-division, programming-focused course on evolutionary theory and principles. Responsible for weekly office hours & debugging, quiz materials, and grading of R programming assignments.

BIOS 120 Biology of Populations and Communities

2016-2017

Introductory biology laboratory course with emphasis on ecological and evolutionary principles. Responsible for weekly laboratory instruction, office hours, and grading.

Community Teaching

UIC Biological Sciences Department Course Builder & Trainer

2020-Present

Trained in online instructional design & pedagogy, and software relevant to online teaching & learning. Assisting Biological Sciences Department faculty members in transitioning their courses online, and managing technical aspects of courses throughout online delivery.

Nurturing Wisdom Tutoring Tutor

2018-2020

Highly-rated individual tutoring for grades 7-12 in test preparation (SAT and high school entrance exams), science, mathematics, and writing.

Chicago-area Charter Schools Substitute Teacher

2015-2016

Substitute teacher for elementary, middle, and high school classes.

Teaching Honors & Awards

- 2020 Nominated for the Graduate Student Excellence in Teaching and Mentoring Award
- 2020 Recipient of the Biological Sciences Department Graduate Teaching Award for BIOS 220
- 2018 Recipient of the Biological Sciences Department Graduate Teaching Award for BIOS 430

Other Awards & Training

- 2020 Participant in the 2020 Chicago 'R' Collaborative Conference
- 2018 Recipient of the Biological Sciences Department Travel Award
- 2018 Reviewer for International Journal of Botany, Oxford Bibliographies
- 2017 Accepted to NSF-funded workshop on Bayesian analysis of macroevolutionary mixtures
- 2017 Recipient of the Biological Sciences Department Travel Award
- 2017 Accepted to microMORPH Plant Anatomy Summer Course at Harvard University
- 2016 General horticulture volunteer at Garfield Park Conservatory

Presentations

- Society for the Advancement of Biology Education Research West Online** | Talk 2021
Delaney, Lucy E, The Four Causes of Adaptation. *Forthcoming*.
- Undergraduate Biology Education Research GRS** at Bates College in Lewiston, ME | Poster 2021
Delaney, Lucy E, The Four Causes of Adaptation. *Forthcoming*.
- Annual Meeting of the Botanical Society of America** at Rochester, MN | Poster 2018
Delaney, Lucy E, Ramanauskas, K., & Igić, B., Breeding Systems in the Legumes.
- microMORPH Summer Course** at Arnold Arboretum, Harvard | Talk 2017
Delaney, Lucy E, Evolutionary Consequences of Plant Mating Systems.

Publications

- Delaney, Lucy E**, Ramanauskas, K., & Igić, B. (2020a). Breeding systems in the legumes: What do we know? *Manuscript in Prep*.
- Delaney, Lucy E**, Ramanauskas, K., & Igić, B. (2020b). Breeding systems in the orchids. *Manuscript in Prep*.
- Delaney, Lucy E**. (2012). Nietzsche, nerve stimulation-image connection, and ontology. *John Jay's Finest*, 27, 99–103.

Professional Experience

- Forensic Molecular Biologist** at NYC Office of Chief Medical Examiner 2012-2015
Examined evidence for the presence of biological fluids, performed serological & DNA analysis techniques, analyzed data & performed statistical analyses, wrote reports, and provided expert scientific testimony in court.
- Health Research Intern** at NYC Department of Health 2011-2012
Accepted to the Health Research Training Program for a year-long internship with the Bureau of Environmental Disease Prevention. Received training in disease epidemiology, emergency preparedness & response, public health and outreach programs in environmental disease control & prevention, and emerging viral infections.