Lucy EDelaney

graduate student in biological sciences

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website
ledelaney.github.io/

github
ledelaney

programming
R

markup languages
$LaTeX$, HTML, Markdown, & RMarkdown

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Interests

Evolution outreach & education, macroevolution, the evolution of plant breeding systems, the nature of adaptation, data manipulation & visualization with `tidyverse`, `R` for undergraduate education

Education

PhD student in Ecology & Evolutionary Biology — University of Illinois at Chicago
Thesis: *The Process of Natural Selection: Resultant patterns and how we understand them*

MA in Molecular & Cellular Biology, 2016 — Hunter College (CUNY)

BS in Forensic Molecular Biology, Philosophy, 2012 — John Jay College (CUNY)

Teaching

BIOS 220 *Mendelian and Molecular Genetics* — 2019-Present
Sophomore-level course focusing on Mendelian inheritance patterns and molecular mechanisms of inheritance. Helped managed transition from in-person to online format. Responsible for teaching discussion section, creating digital course materials & exams, grading, and Blackboard administration.

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* — 2017-2018
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 & Communities* — 2016-2017
Introductory biology laboratory course with emphasis on ecological and evolutionary principles. Responsible for weekly laboratory instruction, office hours, and grading.

Professional Experience

Online Course Builder at UIC Biological Sciences Department — 2020-Present
Received training in online instructional design, online instruction & pedagogy, and software relevant to online teaching & learning. Assisted Biological Sciences Department faculty members in transitioning their courses from in-person to online.

Tutor at Nurturing Wisdom Tutoring — 2018-Present
Highly-rated individual tutoring for grades 7-12 in test preparation (SAT and HSETs), science, mathematics, and writing.

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 analysis, 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.

Extracurricular

2020-Present	Developed R functions for automated Blackboard grade finalization
2020-Present	Created a website to manage student materials and tutorials in BIOS 220: Genetics
2017-Present	Reviewer for International Journal of Botany, Oxford Bibliographies
2018	Created programming tutorials for use in BIOS 331: General Ecology Laboratory
2018	Recipient of the Biological Sciences Department Graduate Teaching Award
2017	Accepted to NSF-funded summer workshop on diversification rates & macroevolution
2017	Accepted to MicroMORPH Plant Anatomy summer course at Harvard University
2016	General horticulture volunteer at Garfield Park Conservatory

Presentations

Annual Meeting of the Botanical Society of America Poster   2018
    Delaney, Lucy E, Ramanauskas, K., & Igić, B., Breeding Systems in the Legumes.

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.*