

LUCY E DELANEY

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INTERESTS

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

EDUCATION

Ph.D candidate, Ecology & Evolutionary Biology 2022
University of Illinois at Chicago Chicago, IL
Dissertation: *The Nature of Adaptation and the Epistemology of Natural Selection*

M.A., Molecular & Cellular Biology 2016
Hunter College (CUNY) New York, NY

B.S., Forensic Molecular Biology, Philosophy 2012
John Jay College (CUNY) New York, NY

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

Course Builder & Trainer UIC Biological Sciences Department 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.

Tutor Nurturing Wisdom Tutoring 2018-2020
Highly-rated individual tutoring for grades 7-12 in test preparation (SAT and high school entrance exams), science, mathematics, and writing.

Substitute Teacher Chicago-area Charter Schools 2015-2016
Substitute teacher for elementary, middle, and high school classes.

TEACHING HONORS AND AWARDS

2020 Nominated for the UIC 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 AND 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

2021 Society for the Advancement of Biology Education Research West | Talk
Delaney, Lucy E, [The Four Causes of Adaptation](#).

2021 Undergraduate Biology Education Research GRS | Poster
Delaney, Lucy E, The Four Causes of Adaptation. *Forthcoming*.

2018 Annual Meeting of the Botanical Society of America | Poster
Delaney, Lucy E, Ramanauskas, K., & Igić, B., [Breeding Systems in the Legumes](#).

2017 microMORPH Summer Course | Talk
Delaney, Lucy E, [Evolutionary Consequences of Plant Mating Systems](#).

PUBLICATIONS

Delaney, Lucy E, Ramanauskas, K., & Igić, B. (2021a). Breeding systems in the legumes: What do we know? *Manuscript in Prep.*

Delaney, Lucy E, Ramanauskas, K., & Igić, B. (2021b). 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.

SKILLS

Languages	Programming: R Document markup: L ^A T _E X, HTML & CSS, R Markdown
Licenses	Illinois Substitute Teaching, FCC Technician Class Radio
Software	Adobe Illustrator, Microsoft Office Suite

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.