

Stephen E. Johnson

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Research Experience:

Postdoctoral Research Fellow, Univ. of Michigan, Ann Arbor, MI May 2022–August 2024

- Assessed population differentiation in invasive *H. matronalis* using SNPs from ddRADseq
- Designed and performed field work to assess selection on *H. matronalis* flower color
- Mentored and trained undergraduate students and collaborated with graduate students

Ph.D. Candidate, Fordham Univ., Bronx, NY August 2016–April 2022

- Planned, conducted, and analyzed field and greenhouse experiments
- Mentored and trained undergraduate and high school students in the lab

Research Assistant, Canisius College, Buffalo, NY August 2013–May 2016

- Assisted bird banding station and examined flight call recordings using software

Research Fellow, Univ. of Virginia REU Program, Boyce, VA May–August 2014

- Developed, performed, and authored scientific paper for an individual research project

Teaching Experience:

LEO Lecture I, Univ. of Michigan, Ann Arbor, MI August 2023–May 2024

- Co-taught Plant Biology in spring 2024, which involved giving ten 50-minute lectures, holding regular weekly office hours, and writing and proctoring exams
- Co-taught Genetics in fall 2023, during which I presented two 80-minute lectures, led practice question discussion groups, and hosted weekly office hours

Ph.D. Candidate, Fordham Univ., Bronx, NY August 2017–April 2021

- Served as coordinator, teaching fellow, and teaching assistant for introductory biology lab
- Directed preparation and organization of reagents and materials for multiple lab sections
- Led laboratory sessions and delivered concise overview presentations to students

Education:

Fordham University, Bronx, NY May 2022
Ph.D. - Biological Sciences

Canisius College, Buffalo, NY May 2016
B.S. – All College Honors, summa cum laude

Publications:

Stephen E. Johnson, Silas Tittes, and Steven J. Franks. Rapid, nonparallel genomic evolution of *Brassica rapa* (field mustard) under experimental drought. 2023. *Journal of Evolutionary Biology* 36(3): 550-562.

Stephen E. Johnson, Elena Hamann, and Steven J. Franks. 2022. Rapid-cycling *Brassica rapa* evolves even earlier flowering under experimental drought. *American Journal of Botany* 109(11): 1683-1692.

Stephen E. Johnson, Elena Hamann, and Steven J. Franks. 2022. Rapid, parallel evolution of field mustard (*Brassica rapa*) under experimental drought. *Evolution* 76(2): 262-274.

Presentations and Posters:

Talk: *Exploring the flower color polymorphism in H. matronalis: Is natural selection responsible?* **Stephen E. Johnson**, Joanna Rifkin, Mario Vallejo-Marin, Arthur Weis, Stephen Wright, and Regina Baucom. Evolution Conference, June 24, 2023.

Talk: *Rapid, parallel evolution of field mustard (Brassica rapa) to experimental drought.* **Stephen E. Johnson**, Silas Tittes, and Steven J. Franks. Evolution Conference, June 24, 2022.

Talk: *Rapid evolutionary responses of field mustard (Brassica rapa) under experimental drought.* **Stephen E. Johnson**. Dissertation defense, Fordham University, March 28, 2022.

Talk: *Rapid, parallel evolution of field mustard (Brassica rapa) under experimental drought.* **Stephen E. Johnson**, Elena Hamann, and Steven J. Franks. Evolution Conference, June 25, 2021.

Talk: *Evolution of field mustard in response to experimental drought.* **Stephen E. Johnson**. Biology Graduate Student Associate meeting, April 17, 2019 and Calder Summer Undergraduate Research “Data & Dessert” session, July 17, 2019.

Poster: *The effects of experimental drought on rapid cycling Brassica rapa fast plants.* **Stephen E. Johnson** and Steven J. Franks. Presented at Evolution Conference, June 25, 2017.

Poster: *Are warblers more likely to respond to greater rates of flight calls?* **Stephen E. Johnson** and Sara Morris. Presented at Canisius College Ignatian Scholarship Day, April 16, 2016.

Talk: *Evolution of field mustard in response to experimental drought. Adderall Exemptions for ADHD in Major League Baseball: A New Way to Beat the Ban on Performance Enhancing Drugs.* **Stephen E. Johnson**. Canisius College Fall 2015 Honors Thesis Defense Week.

Poster: *The Impact of Herbivore Regulation on the Competitive Outcome between Ailanthus altissima and Robinia pseudoacacia.* **Stephen E. Johnson**, Zhe Bao, Erik Nilsen, and David Carr. Presented at Ecological Society of America annual meeting, August 13, 2015.

Poster: *How does varying flight call frequency affect flight call behavior in warblers?* **Stephen E. Johnson** and Sara Morris. Presented at Buffalo Ornithological Society Meeting, April 8, 2015; Canisius College Ignatian Scholarship Day, April 17, 2015; and Association of Field Ornithologists, Society of Canadian Ornithologists, and Wilson Ornithological Society joint annual meeting in Nova Scotia, July 17, 2015.

Talk: *The Impact of Herbivore Regulation on the Competitive Outcome Between Ailanthus altissima and Robinia pseudoacacia.* **Stephen E. Johnson.** Blandy Class of 2014 Research Forum, August 1, 2014.

Poster: *Differential Responses of Warblers to Flight Calls.* Lauren Parker, Hannah Elsinghorst, Kaitlin Garrity, **Stephen E. Johnson**, and Sara Morris. Co-presented at Canisius College Ignatian Scholarship Day, April 11, 2014; presented at Wilson Ornithological Society meeting, May 31, 2014.

Grants and Awards:

- Fordham University Alumni Dissertation Fellowship, 2021-22 academic year
- W. D. Hamilton Award for Outstanding Graduate Student Presentation, 2021 finalist
- Fordham University Three Minute Thesis third place award winner, April 2020
- Fordham University Professional Development Grant, fall 2019
- Louis Calder Center Student Support Grant for research, 2018 and 2019
- Fordham GSAS Schering-Plough Endowed Fellowship, 2017 and 2019 academic years
- University Supplement, a Fordham GSAS distinguished award, 2016-18 academic years

Laboratory and Language Skills:

- Bioinformatics and data analysis skills including Unix, Bash, R, and Python
- Laboratory techniques such as PCR, qPCR, and PCR-free and ddRAD library preparation
- Field work including transect sampling technique and assessing selection in the field
- ILR Level 2 (Limited working proficiency) in Spanish

Professional Memberships:

- Society for the Study of Evolution March 2017–present