

Job Title	Postdoctoral Fellow
PVN ID	YC-2503-006772
Category	Postdoctoral
Location	YORK COLLEGE
Department	Biology
Status	Full Time
Annual Salary	\$60,000.00 - \$60,000.00
Hour(s) a Week	35
Closing Date	May 15, 2025 (Or Until Filled)

General Description

Postdoctoral Fellow: Widow spider and parasitoid invasion genomics

City University of New York, York College

[PI Monica Mowery](#) at the City University of New York ([York College](#) and the [CUNY Graduate Center](#)) has an opening for a postdoctoral researcher to begin in October 2025. This position will be for one year. Our lab investigates the ecology, evolution, behavior, and genomics of urban and invasive species, focusing on insects and spiders. Funded by the Binational Science Foundation, the postdoctoral fellow will work on a project to sequence and annotate a reference genome for a widow spider (genus *Latrodectus*) egg sac parasitoid wasp, *Philolema latrodecti*. The postdoctoral fellow will additionally analyze nuclear genomic data using ddRAD sequencing and mitochondrial data for the invasive brown widow spider, *Latrodectus geometricus*, and the associated parasitoid wasp sampled globally to identify the native and invasive ranges of *L. geometricus* and *P. latrodecti* by comparing the nucleotide diversity and phylogeographic structure across populations. There will be opportunities to analyze sequenced libraries from museum specimens of the parasitoid wasp. The postdoctoral fellow will be on a collaborative team with Dr. Jessica Garb at University of Massachusetts Lowell and Dr. Michal Segoli and Dr. Yael Lubin at Ben-Gurion University.

Applications will be accepted until May 1, 2025. Applicants must submit materials electronically through the Research Foundation website:

- a resume/CV that documents all applicable required and preferred qualifications,
- a cover letter (1-2 pages) that briefly (1) describes their relevant training and research accomplishments, (2) explains their reasons for applying for this specific position, (3) describes their career aspirations and how this position will advance their goals, and (4) clarifies any of the required or preferred job qualifications listed on the official posting that the candidate may meet but are not clearly indicated on their CV.
- Three names and contact information for references

Queries regarding this position can be made by email to: mmowery@york.cuny.edu

Other Duties

Qualifications

Required Qualifications:

- Ph.D. by the time of the start date in integrative biology, evolutionary biology, population genetics, or a closely related field.
- A record of publishing research in peer-reviewed scientific journals

Preferred Qualifications:

- Experience generating, analyzing, and/or integrating large datasets – whole genome sequencing, RAD sequencing, and/or transcriptome sequencing.
- Experience sequencing and assembling reference genomes
- Experience in programming in R, Python, or a similar programming language
- Experience using computational methods to assess historical population and invasion dynamics
- A demonstrated commitment to fostering an inclusive and equitable research environment