

Pomona Carrington-Hoekstra

pcarrin2@illinois.edu - 309-241-9665 - <https://pcarr.in>

Current university student interested in computational biology and bioinformatics.

Skills

- Linux systems (Arch-based, RHEL-like, and Debian-based)
- Command-line tools and shell scripting
- Genetics and genomics knowledge, integrating genetics with ecology
- Microsoft Office, Google Drive, and LibreOffice suites
- Technical reading and writing
- Communication of scientific and mathematical topics
- Public speaking and presenting

Education

University of Illinois at Urbana-Champaign (May 2024)
BS Mathematics, BS Integrative Biology

GPA: 3.73

Experience

- **Computational Biology Research with Prof. Christina Cheng** (2022)
 - Phylogenetically reconstructed the evolution of antifreeze (AFP) gene families in several species of beetles, answering questions about convergent evolution
 - Used command-line tools to send and receive data from Linux servers
 - Researched complex statistical methods and made informed selections
 - Documented the pipelines used to handle and process data
 - Wrote up and presented findings to teammates

Publications

Carrington-Hoekstra, P., Fernandez-Triana, J., Dyer, L. A., & Whitfield, J. (2023). *Larissimus nigricans* sp. nov. (Hymenoptera, Braconidae), a new reared species of a rare neotropical genus recovered through biodiversity inventory in Ecuador. *ZooKeys*, 1156, 15. doi: [10.3897/zookeys.1156.101396](https://doi.org/10.3897/zookeys.1156.101396)

Relevant Coursework

- **IB 372:** Honors Ecology and Evolution
 - Designed, ran, and presented an ecological experiment on Emerald Ash Borer-killed trees
- **IB 270:** The Evolution of Molecules and Cells
 - Designed, carried out, and documented an experiment on genetically modified *C. elegans* nematodes
- **STAT 400:** Statistics and Probability I
 - Learned statistics fundamentals, gained experience in R