

Juan Pablo Jordán PhD(c)

jjp73@cornell.edu • 607 882 4315

Web: • ORCID: 0000-0002-2630-0031

Education

2021- Present	<u>Cornell University</u> PhD Candidate - Ecology & Evolutionary Biology Advisor: Dr. André Kessler Committee: Drs. Katja Poveda, Anurag Agrawal	Ithaca, NY
2017-2021	<u>Universidad San Francisco de Quito</u> College of Biological and Environmental Sciences Bachelor of Science in Biology (Cum Laude)	Quito, EC

Publications

4. **Jordán, J. P.**, DiPaola, A., Power, A. G., Poveda, K., Kessler, A. (2026). Intercrop-mediated Inducibility Affects Direct Defenses and Plant Resistance but not Indirect Defenses in Maize. *Frontiers in Plant Science*. <https://www.frontiersin.org/journals/plant-science/articles/10.3389/fpls.2026.1766071/abstract>
3. **Jordán, J. P.**, & Kessler, A. (2026). Intercropping and cover cropping differentially alter maize secondary metabolism and affect herbivore resistance. *Journal of Applied Ecology*, 63, e70284. <https://doi.org/10.1111/1365-2664.70284>
2. Losey, J. E., Chen, C., Davis, A. E., Deitsch, J. F., Gertin, J. G., Gorneau, J. A., Hallock, E. M., **Jordán, J. P.**, Kim, Z. J., Kubinski, E. G., Laurenz, N. R., Li, S. B., Mullen, E. K., O'Brien, A., Richardson, L. I., Vincent, S., Wang, S. Y., Yarhouse, E. L., Schydrowsky, A., & Curtis, P. D. (2022). Insects and spiders on the web: Monitoring and mitigating online exploitation of species and services. *Global Ecology and Conservation*, 36, e02098. <https://doi.org/10.1016/j.gecco.2022.e02098>
1. **Jordán, J. P.**, Domínguez-Trujillo, M., & Cisneros-Heredia, D. F. (2021). Phylogenetic placement of the spider genus *Taczanowskia* (Araneae: Araneidae) and description of a new species from Ecuador. *Invertebrate Systematics*, 35(7), 742–753. <https://doi.org/10.1071/IS20084>

In Review

A, Kessler., **Jordán, J.P.** Associational Resistance as a Tool for Pest Control in Agriculture: Chemical Information, Biodiversity, and Plant Defense. (In review, Springer Nature Book Chapter).

Lombardi, E.M, Peters, J.S., **Jordán, J. P.**, and Power. Humans facilitate biogeographical expansion of a pathogenic plant virus in the wild host *Hesperis matronalis*. (In review *Plants, Planet, People*)

In preparation

Jordán, J.P., Tan, A., Vakarelov., I., Prahbu, S., Dixon, M., Castell., C. Kessler, A. Seed chemical treatments change the soil microbiome weakening maize-amf interactions and affecting herbivore resistance through changes in secondary metabolism. (In prep)

Jordán, J.P., Vakarelov., I., Smith-Drysdale, T., Kessler, A. Intercropping increases Arbuscular mycorrhizae fungi interaction with maize, increasing resistance through potentiated induction. (In prep)

Research and Professional Experience

Summer 2020	<u>Cornell University</u> Dr. Alison Power Lab Summer Research Internship	Ithaca, NY
Fall 2019- Spring 2020	Dr. Laura Harrington Lab Research Assistant <ul style="list-style-type: none">• NEVBD Pesticide Resistance Program	Ithaca, NY
Fall 2017- Spring 2019	<u>Universidad San Francisco de Quito</u> Invertebrate Zoology Laboratory / iBIOTROP Institute Research Assistant <ul style="list-style-type: none">• Led the description of a new species and the phylogenetic revision of the genus <i>Taczanowskia</i>• Urban ecology of the invasive Argentine Ant in Quito (Personal Project)• Diversity of Araneid spiders in the Amazon rain forest, Yasuni National Park	Quito, EC

Teaching experience

Cornell University

- **Instructor on record graduate student teaching assistant (TA)**
Investigative Biology Laboratory (BioG 1500, Academic year 2022-2023; Academic year 2025-2026)
Field Ecology (BioEE 3360, Fall 2023)
Plant Behavior (BioEE 4400, Spring 2024)
Introduction to Ecology and the Environment (BioEE 1610, Fall 2024)
Chemical Ecology (BioEE 3690, Spring 2025)
- **Invited Lectures:**
Conservation seminar (SUNY Cortland, Spring 2023)
Applied Statistics (ENTOM 3030, Spring 2022)
Evolutionary Biology and Diversity, Discussion (BIOEE 1780, Spring 2022)
Graduate Seminar in Agroecology (PLSCI 6940, Spring 2022)

Diversity, Equity, and Inclusion in STEM: The Science Behind Bias Seminar (ENTOM 4040, Spring 2022)

Presentations at Conferences

Jordán, J.P., André Kessler. 2023. *Does herbivore interactor diversity predict phytochemical diversity?* Poster Presentation. Gordon Research Conference, Feb 2025.

Jordán, J.P., André Kessler. 2023. *Maize Intercropping Differentially Changes Plant Secondary Metabolism and Mediates Resistance to Herbivores.* Research Presentation. Gordon Research Seminar, Feb 2023.

Jordán, J.P., Dominguez-Trujillo, M., Cisneros-Heredia D. F. 2021. *Phylogenetic placement of the spider genus Taczanowskia (Araneae : Araneidae) and description of a new species from Ecuador.* Oral Presentation. Virtual Evolution, March.

Jordán, J.P. 2018. Ecology of the Argentine Ant *Linepithema humile* in the city of Quito. Poster Presentation. XLII Jornadas Nacionales de Biología, Santa Elena, Ecuador. (*Awarded third place in the oral poster presentations*).

Velásquez-Espín, F., **Jordán, J.P.**, Peñaherrera-Romero, E., Cisneros-Heredia, DF. 2018. Oral Presentation. *Catálogo de arañas de la familia Araneidae en la Estación de Biodiversidad Tiputini, Yasuní, Ecuador.* XLII Jornadas Nacionales de Biología, Sociedad Ecuatoriana de Biología, Santa Elena, Ecuador.

Grants and Awards

- Atkinsons Center for sustainability – \$4000 – Spring 2025
- Atkinsons Center for sustainability – \$8000 – Spring 2023
- Cornell – USFQ Global Strategic Collaboration Awards - \$10000 – Spring 2023
- Orenstein Family travel grant – \$750 – Fall 2022 & Spring 2025
- Cornell University Conference grant - \$550 – Fall 2022 & spring 2025
- Andrew W. Mellon Student Research Grant - \$1000 – Spring 2022
- Ecology and Evolutionary Biology Department Internal Grant - \$4000 – Spring 2022

Fellowships

Fall 2026	<u>Andrew '78 and Margaret Paul Graduate Fellowships in the Life Sciences</u>
2023 - 2025	<u>Atkinson Center for Sustainability</u>
2021-2022	<u>“Cornell Fellow” Graduate Student Fellowship</u>
2019-2020	<u>Cornell University</u> International Exchange Student Fellowship CALS

Professional Services

Invited Reviewer

- New Phytologist Journal

Selection Committee for Boyce Thompson Institute URE program

- Spring 2023

Orenstein Fund Selection Committee (EEB Cornell University)

- 2022-2024

Leadership & Community

2025-2026	PhD Admissions committee, EEB department Graduate student representative in the admissions committee
2022-2024	Co-president of the Graduate Student Association for the EEB department
2021-2023	E-board: Society for the Advancement of Chicanos/Hispanics and Indigenous people in STEM (SACNAS)
August 2021	Cornell Diversity Preview Weekend Lead workshop on how to interview for graduate school
February 2022	CURB-SACNAS Graduate School Panel Panelist

Languages

Spanish (Native proficiency) | *English* (Professional spoken and written proficiency)

Media & News

Cornell Chronicle: <https://news.cornell.edu/stories/2022/04/rare-endangered-insects-illegally-sale-online>

Forbes Magazine: <https://www.forbes.com/sites/andrewwight/2021/01/03/this-ecuadorian-cured-his--arachnophobia-and-became-a-spider-scientist/?sh=1a84e06f77d2>

The Cornell Daily Sun: <https://cornellsun.com/2019/11/25/undergraduate-research-shines-at-curb-fall-forum/>

Field Experiences

Ecuador: Tiputini Biodiversity Station, Reserva Antisana, Reserva del Rio Guajalito, Reserva Otongachi, Reserva del Bosque Nublado Mindo, eastern Ecuadorian slopes expedition Loja-Napo, expedition Parque Nacional Llanganates. August 2017-July 2019.

United States: Field research at Archbold Biological Station. Florida. April 2022. Brooktondale experimental plots. Ithaca, NY. Summer 2022