Lena Hunt

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EDUCATION

2018–2023	**Ph.D. Experimental Plant Biology,** *cum laude*, Charles University in Prague "Physiological, structural, and biochemical leaf traits of selected Poaceae species involved in oxidative stress protection and acclimation to different light conditions." Co-supervised by Drs. Jana Albrechtová and Zuzana Lhotáková
2014-2016	**M.S. Biology,** *cum laude*, Saint Jospeh's University "Morphological changes in vascular anatomy of the Pitch Pine (*Pinus rigida*) throughout its North American range." Supervised by Dr. Clint Springer.
2011-2014	**B.A. Biology,** *magna cum laude***,** Loyola Marymount University "Genetic detection of the bacterium Wolbachia in California spiders." Supervised by Dr. Martina Giselle Ramirez

RESEARCH POSITIONS

10.2023—present	**Postdoctoral associate** Onyenedum Lab of Environmental Studies at New York University in Manhattan
09.2018–09.2023	**Ph.D. student researcher** Albrechtová Lab of Plant Ecophysiological Anatomy at Charles University in Prague
08.2014-06.2016	**Graduate student researcher** Springer Lab of Plant Biology at Saint Joseph's University in Philadelphia
08.2013-05.2014	**Undergraduate Researcher** Ramirez "Spider Lab" at Loyola Marymount
08.2013-05.2014	**Undergraduate Researcher** Loyola Marymount Center for Urban Resilience (CURes)
07.2012-08.2012	**Summer Research Intern** in Stream Ecology monitoring at Michigan State University
07.2011-08.2011	**Summer Research Intern** Allen Lab of microbiology at Hartwick College

TEACHING EXPERIENCE

01.2021-10.2023	**Lecturer** Ecophysiological Functions of Plants in Ecosystems, Charles University
12.2016-09.2018	**English as a Second Language (ESL) Teacher** Self-employed, Prague
08.2016-11.2016	**Environmental Educator** Audubon Society of Western Pennsylvania
08.2014-06.2016	**GEOKIDS LINKS Teaching Fellow** Wagner Free Institute of Science
06.2014-07-2014	**Teaching Assistant** LMU study abroad course: Tropical Ecology of Costa Rica
08.2012-12.2012	**Writing Tutor** Loyola Marymount Honor's Program writing course

RESEARCH GRANTS

2025	NYU Trailblazer Grant (*pending decision*)
2016	SJU Chapter Sigma Xi Research Grant for Graduate students
2015	SJU Chapter Sigma Xi Research Grant for Graduate students
2014	LMU Honors Student Research Fellowship Grant for undergraduate students

Contributor:

2021	Czech Science Foundation (GAČR 21-18532S)
2020	Erasmus+ Strategic partnership program (2020-1-CZ01-KA203-078308, 2020-2023)
2018	Czech Science Foundation (GAČR 18-23702S)

SCHOLARSHIPS/FELLOWSHIPS

2018–2022	STARS fellowship for a fully funded PhD position in Biology at Charles University
2016-2018	NSF GeoKids LINKS Graduate Fellowship in Biology at Saint Jospeh's University
2010-2014	FACHEX full-ride scholarship at Loyola Marymount University

AWARDS

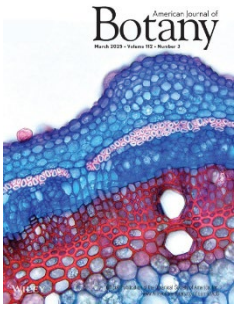
2026	Blavatnik Award for Young Scientists *(nominated, decision pending)*
2021	Best Poster Presentation at Plant Biology CS student days conference
2021	FESPB Support Grant for Plant Biology Europe Conference
2019	Best Oral Presentation at Plant Biology CS student days conference
2014	Loyola Marymount University Biology Department Program Scholar

PUBLICATIONS [ORCID 0000-0002-7605-1379]



- **Hunt L,** Sousa-Baena MS, Acevedo AA, Semana L, Wang A, Glos RAE, Anderson CT, Onyenedum J. *XTH* genes impact growth habit determination of twining common bean vine revealed by brassinosteroid treatment. *New Phytologist.* **2026**. Early view. https://doi.org/10.1111/nph.70935

- **Hunt L**, Liu E, Ferguson K, Onyenedum J. Wood character trait variability in the genus *Alnus* (Betulaceae). *IAWA Journal,* **2026.** Accepted.



- Onyenedum J, Sousa-Baena, MS, **Hunt L,** Acevedo, AA, Glos RAE, Anderson CT. Gelatinous fibers develop asymmetrically to support bends and coils in common bean vines (*Phaseolus vulgaris* L.,). *American Journal of Botany*. **2025**, 3, 112.

- Lhotáková Z, Neuwirthová E, Potůčková M, Červená L, **Hunt** L, Kupková L, Lukeš P, Campbell P , Albrechtová J. Mind the leaf anatomy while taking ground truth with portable chlorophyll meters. *Scientific Reports*. **2025**, 15,1855.

- Potůčková, M., Albrechtová, J., Anders, K., Červená, L., Dvořák, J., Gryguc, K., ... & Kupková, L. (2023). E-TRAINEE: Open e-learning course on time series analysis in remote sensing. *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*. **2023**. 48, 989-996.

- **Hunt** L, Lhotáková Z, Neuwirthová E, Klem K, Oravec M, Kupková L, Červená L, Epstein H E, Campbell P, Albrechtová J. Leaf Functional Traits in Relation to Species Composition in an Arctic–Alpine Tundra Grassland. *Plants* **2023**, 12, 1001.

- Pech R, Volná A, **Hunt** L, Bartas M, Červeň J, Pečinka P, Špunda V, Nezval J. Regulation of Phenolic Compound Production by Light Varying in Spectral Quality and Total Irradiance. *Int J Mol Sci.* **2022,** 23, 6533.

- **Hunt** L, Fuksa M, Klem K, Lhotáková Z, Oravec M, Urban O, Albrechtová J. Barley Genotypes Vary in Stomatal Responsiveness to Light and CO2 Conditions. *Plants*. **2021**, 10, 2533.

- **Hunt** L, Klem K, Lhotáková Z, Vosolsobě S, Oravec M, Urban O, Špunda V, Albrechtová J. Light and CO_2 Modulate the Accumulation and Localization of Phenolic Compounds in Barley Leaves. *Antioxidants*. **2021**, 10, 385.

- Cifrová P, Voloshina M, **Hunt** L, Kubásek J, Kampová A, Kurtović K, Vosolsobě S, Schwarzerová K, Albrechtova J, Pilátová J. Evolutionary, ecophysiological, and developmental traits of plant cuticles and algal algeanans. *Annals of Botany*, under review.

- Onyenedeum J, Hunt L, Pace M. How woody lianas do the twist. Article in prep.

PUBLIC DATASETS

Dataset from: Brassinosteroid treatment reveals the importance of xyloglucan transglucosylase/hydrolase (XTH) genes in growth habit determination of twining common bean vines. https://doi.org/10.5281/zenodo.17380637

Supplemental Data from: Leaf Functional Traits in Relation to Species Composition in an Arctic–Alpine Tundra Grassland. https://doi.org/10.5281/zenodo.7545508

TRANSCRIPTOMIC DATA SUBMISSIONS

Submitter, "Xyloglucan Transglucosylase/Hydrolase (XTH) Genes Play a Crucial Role in Growth Habit Determination of Twining Common Bean Vine Revealed by Brassinosteroid Treatment," *(raw RNA-seq data, FASTQ files)* deposited in the European Nucleotide Archive (ENA), Project **PRJEB101000** (ERP182427), 2025.

CONFERENCES AND TALKS

- Cornell Cooperative Extension Living Landscape Conference, Invited Speakers, New York NY October 2026
- Biology Undergraduate Society Invited Speaker, New York, NY January 2026
- New York Botanical Gardens (NYBG) Science & Humanities Seminar Series, New York, NY, October 2025
- Botanical Society of America (BSA) Botany Conference, Palm Springs, CA, July 2025
- Association for Tropical Biology and Conservation (ATBC) Annual meeting, Oaxaca, Mexico June 2025
- NYU Plant Labs Seminar Series, New York, NY, November 2024
- Botanical Society of America (BSA) Botany Conference, Grand Rapids, MI, June 2024
- Methods in Plant Science Conference, Srní, Czech Republic, September 2023
- Student Conference in Plant Biology, Prague, Czech Republic, September 2022
- Plant Biology Czech-Slovak, online, September 2021
- Plant Biology Europe, Turin, Italy (online) July 2021
- Saint Joseph's University Seminar Series, Philadelphia, PA, March 2020
- International Conference of Integrative Plant Physiology, Sitges, Spain, October 2019
- Plant Biology Czech-Slovak, České Budějovice, Czech Republic 2019
- SJU Chapter Sigma Xi Research Symposium, Philadelphia, PA, April 2016
- SJU Chapter Sigma Xi Research Symposium, Philadelphia, PA, April 2015
- LMU Honors Research Symposium, Los Angeles, CA, April 2014

PROFESSIONAL SOCIETIES

- Botanical Society of America
- Federation of European Societies of Plant Biology
- Czech Society of Experimental Plant Biology
- New York Academy of Sciences
- International Association of Wood Anatomists

PROFESSIONAL ACTIVITIES

- External reviewer for
  - Archives of Applied Sciences
  - Frontiers in Plant Science

    - Biologia Plantarum
- Established mentor for the Botanical Society of America PLANTS mentorship program.
- Supervisor of undergraduate researchers in the Onyenedum Lab at NYU.
- Guest lecturer for Environmental Studies courses at NYU.
- English Translation and Language editing for Faculty of Experimental Plant Biology at Charles University.

MENTORSHIP

2026–Current **Undergraduate Researcher,** Liam Kakuda, Biology, NYU
2026–Current **Undergraduate Researcher,** Mehr Tang, Environmental Studies, NYU
2026–Current **Undergraduate Researcher,** Terry Chang, Biology, NYU
2024–Current **Undergraduate Researcher**, Annabelle Wang, Environmental Studies & Biology NYU
2024–2025 **Undergraduate Researcher**, Leo Malazo Semana, Biology, NYU
2024 **Undergraduate Researcher**, Kelly Ferguson, Environmental Studies & Biology, NYU

LANGUAGES

English, Czech