

KYRA PRATS, Ph.D.

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CURRENT APPOINTMENT

2022-present **Postdoctoral Researcher**
Purdue University, Department of Botany and Plant Pathology

EDUCATION

2016-2022 **Doctorate in Plant Biology and Ecophysiology**
Yale University, School of the Environment (YSE)
New York Botanical Garden Cullman Fellow

2014-2016 **M.S. in Forest Science**
Yale University, School of the Environment (then Forestry & Environmental Studies)

2009-2013 **B.S. in Environmental Geoscience, minor in Environmental Studies**
Boston College, *cum laude* with departmental honors

PROFESSIONAL EXPERIENCE

2022 **Summer Research Associate**
Indigo Agriculture: led systematic literature reviews, extracted data, and performed meta-analyses

2014-present **Plant Biology, Ecophysiology, Ecology, and Forest Science Research**
Created research directions, developed field and lab work. Independently learned to use software, lab equipment, and coding languages. Secured grants and fellowships (exceeding \$21,000). Fostered international research collaborations (Spain, Australia). Published results in peer-reviewed journals and presented research at domestic and international conferences.

2018-2022 **Greenhouse manager of Yale YSE Greeley Research Greenhouse**
Worked in a team of 3 to manage the greenhouse space for experiments and assist researchers. Developed technical skills to install irrigation, conduct IPM, program and wire solenoids, and install lights.

2018-2019 **Co-organizer of Yale YSE Research Conference**
Developed vision for the Conference. Invited keynote speakers, organized abstracts into sessions, recruited judges and moderators, and worked with Pathways to Science to have local high schoolers attend.

2014-2016 **Research Assistant with the Global Institute of Sustainable Forestry, Global Forest Atlas**
Synthesized research and news about forests in boreal and tropical regions and wrote website material.

LEADERSHIP, TEACHING, COMMUNICATION, & OUTREACH

2021 **Public Communication Certificate, Yale Poorvu Center for Teaching and Learning**
Gained skills in oral and written communication by participating in the 3-Minute Thesis Competition

2020-2021 **Yale Open Labs Outreach**
Volunteer for Family Science Haven Events demonstrating science experiments to kids in New Haven.

2016-2017 **Lead Instructor: Ecosystem Science Module at Yale School of the Environment**
Designed and taught curriculum of field-based orientation for 300 incoming Yale master's students.

2015-2019 **Teaching Fellow: Trees and Environmental Biology, Tropical Field Botany, Ecosystems and Landscapes, and The Practice of Silviculture**
Taught undergraduate and graduate students for 7 semesters. Led weekly discussion sections, organized and instructed weekly labs and field-based exercises, led course review sessions, and met with students.

SELECTED PUBLICATIONS

2022 Bouda, M., B. Huggett, **K. A. Prats**, J. Wason, J. P. Wilson, and C. R. Brodersen. 2022. Hydraulic failure as a primary driver of xylem network evolution in early vascular plants. *Science*. 378(6620): 642-646. doi:10.1126/science.add2910.

2021 **Prats, K. A.**, C. R. Brodersen. 2021. Desiccation and rehydration dynamics in the epiphytic resurrection fern *Pleopeltis polypodioides*. *Plant Physiology*. <https://doi.org/10.1093/plphys/kiab361>

2020 **Prats, K. A.**, C. R. Brodersen. 2020. Seasonal coordination of leaf hydraulics and gas exchange in a wintergreen fern. *Annals of Botany Plants*. <https://doi.org/10.1093/aobpla/plaa048>.

2019 **Prats, K. A.**, C. R. Brodersen, and M. S. Ashton. 2019. Influence of dry season on *Quercus suber* L. leaf traits in the Iberian Peninsula. *American Journal of Botany*. <https://doi.org/10.1002/ajb2.1280>.