

Kenji T. Hayashi

Curriculum Vitae

Ph.D Candidate

Department of Ecology and Evolutionary Biology

University of California, Los Angeles

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EDUCATION

Ph.D. in Ecology and Evolutionary Biology

2018 - Present

University of California, Los Angeles

Advisor: Dr. Nathan Kraft

B.S. in Biology

2014 - 2018

Brown University

Advisors: Dr. Dov Sax, Dr. Brian Enquist

FUNDING

Grants

Departmental Conference Grant

2023

University of California, Los Angeles

\$1,500 to attend Ecological Society of America conference

Departmental Research Grant

2022

University of California, Los Angeles

\$650 for dissertation research

Mildred E. Mathias Graduate Student Research Grant

2020 - 2021

University of California Natural Reserve System

\$2,000 for field work at UC Santa Barbara Sedgwick Reserve: "Quantifying the effect of competitive interactions on the landscape-scale distributions of annual plant species in a California grassland"

Departmental Research Grant University of California, Los Angeles \$500 for dissertation research	2020
Departmental Research Grant University of California, Los Angeles \$2,000 for dissertation research	2019

Fellowships & Scholarships

Vavra Fellowship University of California, Los Angeles	2018-2022
Halde Quarter Fellowship University of California, Los Angeles	2022
Summer Mentored Research Fellowship University of California, Los Angeles	2021
Vavra Quarter Fellowship University of California, Los Angeles	2021
Palevsky Fellowship University of California, Los Angeles Awarded to one incoming student in recognition of an outstanding record	2018
Barclay Scholarship Rocky Mountain Biological Laboratory	2017
BrownConnect LINK Award Brown University	2016

HONORS & AWARDS

Winner, ESIL Environmental MosAlc Hackathon For the group project "Biodiversity and ecosystem function: predicting resistance to wildfire from spectral diversity" in the 2023 Environmental Data Science Innovation & Inclusion Lab hackathon	2023
Departmental Graduate Teaching Award University of California, Los Angeles For Teaching Assistant roles in EE BIOL 161 (Plant Ecology) and EE BIOL 167 (Natural History Collections in the Biological Sciences)	2023

Honorable Mention, NSF Graduate Research Fellowship National Science Foundation	2022
Elected to Sigma Xi Brown University	2023
Honors in the Biological Sciences Brown University	2018

PUBLICATIONS

Journal Articles

* indicates equal contribution

2. McGuire, RM*, **Hayashi, KT***, Yan, X*, Caritá Vaz, M, Cinoğlu, D, Cowen, MC, Martínez-Blancas, A, Sullivan, LL, Vazquez-Morales, S, Kandlikar, GS. (2022). EcoEvoApps: Interactive apps for theoretical models in ecology and evolutionary biology. *Ecology and Evolution*, 12, e9556. <https://doi.org/10.1002/ece3.9556>
1. Miller, EC, **Hayashi, KT**, Song, D, Wiens, JJ. (2018). Explaining the ocean's richest biodiversity hotspot and global patterns of fish diversity. *Proceedings of the Royal Society B: Biological Sciences*, 285, 20181314. <https://doi.org/10.1098/rspb.2018.1314>

PRESENTATIONS

Invited Presentations

2. **Hayashi, KT**. (April 27, 2021). Understanding the distributions of annual plant species in a California grassland. University of California, Santa Barbara, Sedgwick Reserve, Lunch & Learn Seminar (virtual).
1. **Hayashi, KT**. (October 7, 2020). Community assembly and species distributions in a California grassland: insights from population dynamics and functional traits. University of Texas at Austin, Department of Integrative Biology, EcoLunch Seminar (virtual).

Contributed Presentations

5. **Hayashi, KT**, Kraft, NJB. (August 9, 2023). Competition along a water supply gradient: towards scaling competition to species distributions with California annual plants. Ecological Society of America, Portland, OR, USA.

4. **Hayashi, KT**, Kraft, NJB. (August 3, 2021). Spatially-variable competitive interactions shape the performance and distributions of annual plant species in a California grassland. Ecological Society of America (virtual).
3. **Hayashi, KT**, Van Dyke, MN, Kandlikar, GS, Kraft, NJB. (August 3-6, 2020). How does functional composition of the species pool impact plant performance locally? Ecological Society of America (virtual).
2. **Hayashi, KT**. (April 20, 2018). Functional traits, elevation, and the assembly of Rocky Mountain meadow communities. Brown University, Department of Ecology and Evolutionary Biology, Undergraduate Thesis Talks, Providence, RI, USA.
1. **Hayashi, KT**. (August 3, 2017). Assessing plant community assembly along an elevational gradient: a functional trait hypervolume approach. Rocky Mountain Biological Laboratory, Undergraduate Research Symposium, Gothic, CO, USA.

TEACHING & MENTORING

Teaching Assistantships

University of California, Los Angeles

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| • Plant Ecology (EE BIOL 161) | 2019, 2021 - 2023 |
| • Natural History Collections in the Biological Sciences (EE BIOL 167) | 2023 |
| • Plant Physiology (EE BIOL 162) | 2020, 2022 |
| • Tropical Ecology (EE BIOL 151A) | 2020 |
| • Plant Diversity and Evolution (EE BIOL 103) | 2020 |
| • Community Ecology (EE BIOL 155) | 2019 |

Brown University

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| • Evolutionary Biology (BIOL 0480) | 2017 |
| • Conservation Biology (BIOL 1470) | 2016 |
| • Intermediate Japanese (JAPN 0040/0050) | 2015 - 2016 |

Guest Lectures

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| • Plant diversity in ecological communities | 2020 |
| Plant Diversity and Evolution (EE BIOL 103), University of California, Los Angeles | |

Workshops

- R for Reproducible Scientific Analysis (Software Carpentry) 2021 - 2022
Instructor/helper, University of California, Los Angeles
- Version Control with Git (Software Carpentry) 2022
Helper, University of California, Los Angeles
- The Unix Shell (Software Carpentry) 2022
Helper, University of California, Los Angeles

Mentorship

Undergraduate Students

- Julie Yang, University of California, Los Angeles 2021 - 2023
Awarded the 2022 Departmental Park S. Nobel Prize in Plant Biology
- Fidel Negrete, University of California, Los Angeles 2022 - 2023
- Soline Grimbert, University of California, Los Angeles 2022
- Jinsuh Jung-Aum, University of California, Los Angeles 2021 - 2022
- Timothy Foster, University of California, Los Angeles 2020 - 2021

Other

- Biology Peer Advisor, Brown University 2017 - 2018

Teaching Certifications

- Instructor, The Carpentries 2022
- Associate, Center for the Integration of Research, Teaching, and Learning at UCLA 2021

OTHER RESEARCH EXPERIENCE

Undergraduate Honors Thesis 2017 - 2018

Brown University

Conducted an independent research project using functional traits to study community assembly of subalpine plant communities in the Rocky Mountains

Research Assistant 2017

Enquist Lab, Rocky Mountain Biological Laboratory

Assisted with field work on functional turnover of subalpine plant communities along an elevational gradient in the Rocky Mountains

Undergraduate Researcher	2016 - 2017
Sax Lab, Brown University	
Contributed to a meta-analysis of plant invasions in grasslands	
Undergraduate Researcher	2016
Wiens Lab, University of Arizona	
(1) Contributed to data collection and analysis of marine fish biogeography	
(2) Compiled data on the biogeography of squamate limb reduction from the primary literature	
Research Assistant	2015 - 2016
Sax Lab, Brown University	
Compiled data on plant species distributions from herbaria records	
Research Assistant	2015
Matter Lab, University of Cincinnati	
Assisted with lab experiments and field work on metapopulation dynamics	

PUBLIC & PROFESSIONAL SERVICE

Outreach

- Invited use case post for Ocean Biogeographic Information System 2020

Departmental Service

- Co-Organizer, “Hacky Hours” (departmental co-working space) 2019 - 2023

Peer Review

- The American Naturalist
- Functional Ecology
- Plant Ecology

Professional Associations

- Ecological Society of America 2019 - Present
- Sigma Xi 2018 - 2020
- International Biogeography Society 2017