

# Kenji T. Hayashi - Curriculum Vitae

Ph.D Candidate

Department of Ecology and Evolutionary Biology

University of California, Los Angeles

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## EDUCATION

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### 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

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### 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

2020

University of California, Los Angeles

\$500 for dissertation research

#### Departmental Research Grant

2019

University of California, Los Angeles

\$2,000 for dissertation research

## Fellowships & Scholarships

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

## HONORS & AWARDS

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<b>Departmental Graduate Teaching Award</b> University of California, Los Angeles <small>For Teaching Assistant roles in EE BIOL 161 and EE BIOL 167</small>	2023
<b>Honorable Mention, NSF Graduate Research Fellowship</b> National Science Foundation	2022
<b>Elected to Sigma Xi</b> Brown University	2023
<b>Honors in the Biological Sciences</b> Brown University	2018

## PUBLICATIONS

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### Journal Articles

\* indicates equal contribution

2. McGuire, RM\*, **Hayashi, KT\***, Yan, X\*, Caritá Vaz, M, 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

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### 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

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### Teaching Assistantships

#### University of California, Los Angeles

- Natural History Collections in the Biological Sciences (EE BIOL 167) 2023
- Plant Ecology (EE BIOL 161) 2019, 2021 - 2022
- 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

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

### Guest Lectures

- 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**

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### **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