

# Hana Matsumoto

Department of Environmental Studies  
[Terrestrial Ecosystem Ecology & Landscapes Lab](#)  
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## EDUCATION

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**University of Oregon | Eugene, OR** In Progress  
M.S. Environmental Studies

**Kent State University | Kent, OH** 2021  
*Magna cum laude* (3.7 GPA)  
B.S. Environmental and Conservation Biology  
Minor: Geographic Information Science (3.9 GPA)

## RESEARCH EXPERIENCE

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**NSF Graduate Research Fellow | University of Oregon** 2022-Present  
Department of Environmental Studies  
Advisor: Dr. Melissa Lucash

*Funded by the National Science Foundation Graduate Research Fellowship Program.*

**Biogeography Research Assistant | Kent State University** 2020-2022  
Department of Geography  
Advisor: Dr. Tim Assal

- Conducted data acquisition, data wrangling and geospatial analysis using ArcMap, R and Google Earth Engine.
- Executed field work in New Jersey studying Atlantic White Cedar mortality.
  - Led the set up and planning of fieldwork (created field surveys, mapped areas of interest, set up equipment, helped guide field procedures).
  - Assisted in collection of tree cores, measurement plot data (DBH, vegetation surveys) and incident photosynthetic active radiation.
- Investigated tree species differentiation in New Mexico using remotely sensed data.
- Created publication quality maps and figures for numerous professional presentations and manuscripts.
- Communicated and collaborated digitally with lab members using reproducible, open-source code and workflows.

*This work has resulted in an active collaborative research project with San Diego State University with plans to publish a manuscript on our work.*

**Undergraduate Research Assistant | Kent State University** 2019  
Department of Biological Sciences  
Advisor: Dr. David Ward & Matthew Wuensch

- Supported the set up and collection of GUD (giving up density) field data for research on eating habits of white-tailed deer in the northeast Ohio region.
- Conducted vegetation surveys and recorded and cataloged field data.

## **PROFESSIONAL EXPERIENCE**

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### **Sustainability Intern | Akron Zoological Park**

2018-2019

- Collaborated with the Director of Capital Projects and Sustainability and the Zoo's Green Team in the accomplishment of goals outlined in its three-year sustainability action plan.
- Crafted formal and informal communications including newsletters, minutes, online research; and potential bench-marking visits to observe similar facilities.
  - Contributions: 2018 GHG emissions report, self-conducted zoo waste audit, organized and ran the Green Energy Ohio Solar Tour, ran waste cleanup at the annual Cuyahoga River Homecoming, and facilitated Plastic Free July and Zoo Lights carpool initiatives.
- Actively and regularly engaged with the community to encourage sustainability and provide informative lessons on a variety of conservation topics.

### **GIS Intern | CBRE FacilitySource**

2017-2018

- Aided with the preparation of thorough, accurate and timely estimates of various landscaping needs, including the preparation of bid documents and development of clear written proposals and correspondence.
- Analyzed blueprints, specifications, proposals, and other construction contract documentation to prepare time, cost, and labor estimates for projects or services using GIS software.

## **PRESENTATIONS**

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### *Poster Presentations*

1. **Matsumoto, H.**, E. Gustafson, T. Brussel, N. Williams, B. Sturtevant, D. Schepaschenko, A. Shvidenko, M.S. Lucash. 2023. Projecting the impacts of climate change and multiple disturbances on Siberian boreal and arctic ecosystems. International Association for Landscape Ecology North American Regional Chapter. Riverside, CA.

## **AWARDS/HONORS**

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### *Awards*

**Professional Development Graduate Scholarship**, University of Oregon. 2023. **\$1,600.**

**IALE-NA Student Travel Award**, International Association for Landscape Ecology North American Regional Chapter. 2023. **\$800.**

**Graduate Research Fellowship Program**, National Science Foundation. 2022-2025. **\$108,000.**

**Greg Farnham Memorial Scholarship**, The Columbus Foundation. 2016. **\$10,000.**

Honors

**President's List:** Spring 2020

**Dean's List:** Fall 2016, Spring 2018, Fall 2018, Spring 2019, Fall 2019, Fall 2020

**COMPUTER / TECHNICAL SKILLS**

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**Software:** ESRI ArcGIS Suite, R Studio, Github, Google Earth Engine (GEE), Jupyter Notebook, Slack, EarthExplorer, QGIS, IBM SPSS, TerrSet, Microsoft Office Suite

**Languages:** R (competent), JavaScript for GEE (novice), Python (novice)

**PROFESSIONAL AFFILIATIONS**

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<b>International Association for Landscape Ecology, Member</b>	2023
<b>Ecological Society of America, Member</b>	2023
<b>Graduate Teaching Fellows Federation, Associate Member</b>	2022-Present

**LANGUAGES**

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**English,** Native language

**American Sign Language,** Intermediate signer

**VOLUNTEER EXPERIENCE**

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**Adaptive Sports Connection | Powell, OH** 2021

- Assisted with weekly adaptive biking riding experiences for people with disabilities.
- Responsibilities included set up and clean up, fitting people to the correct bikes, ensuring safety protocols were followed, fostering an inclusive and safe environment, and guiding bike rides.

