

Mallory Giesie

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EDUCATION

Master of Environmental Data Science, 3.85 GPA (Expected June 2023)

Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)

Highlighted Coursework: Machine Learning in Environmental Science, Statistics for Environmental Data Science, Modelling Environmental Systems, Python for Environmental Data Science (all to be completed by June 2023)

Bachelor of Science in Quantitative Environmental Science, 3.8 GPA (December 2021)

The American University of Paris – Paris, France

Minor: Computer Science

Honors/Awards: Magna Cum Laude Honors, Global Citizen Award

Highlighted Coursework: Oceanography, Numerical Approaches to Problem Solving in the Environment, Artificial Intelligence, Languages and Data Structures

SKILLS

Languages: R, Python, Java Script, HTML/CSS, GIS, Java

Environments: RStudio, Visual Studio Code, Jupyter Notebook, Eclipse, QGIS

Technical: Modelling, Statistical Analysis, Machine Learning, Web Development,

Trainings/Workshops: Environmental Leadership Training, Shiny App Development

PROJECTS

Climate Futures for Ecohydrological Modeling of Emerging Fire Regimes in Central Coast California

(Present – 6/16) **Project Type** (Master's Capstone)

- Analyze Cal-Adapt climate model predictions to provide a statistical summary of climate futures.
- Visualize climate scenarios intended for both scientists and stakeholders.
- Deliver an interactive tool that takes specific climate scenarios, generates RHESSys-fire model inputs from the selected input, and visualizes intended climate futures.

Simulation of rapidly evolved grazing adaptations in Cladocera zooplankton (8/21 – 1/22)

Project Type (Undergraduate Thesis)

- Designed a simulation of a 24-hour grazing experiment to develop a plausible model for observed evolved variation in population grazing rates among two species of zooplankton.
- Presented a final paper describing the experiment and the realized results and implications

EXPERIENCE

Seasonal Biologist – McCormick Biological inc., Bakersfield, CA (4/22–8/22)

- Conducted Blunt Nose Leopard Lizard surveys under CDFW protocol
- Gathered telemetry data on the geolocation of the San Joaquin Kit Fox to assist in habitat research that aids Kern County in developing conservation strategies to protect the species.
- Trained to identify critical species within the San Joaquin Valley in order to conduct various presence or absence surveys

Research Assistant – The University of Konstanz's Limnological Institute, Konstanz, Baden-Württemberg, Germany (6/21–9/21)

- Set up, monitored, and completed a common garden experiment to test two species of Zooplankton's ability to coevolve
- Organized data collecting practices and set up protocol to ensure the experiment followed principles of reproducibility
- Assisted with data collection and nutrient analysis testing

ADDITIONAL WORK EXPERIENCE

Administrative Assistant – Wood Guttman & Bogart, Tustin, CA (04/2018–08/2019)

Server – Hotel Seven4one, Laguna Beach, CA (08/2016–08/2019)

Harvest Worker – Fallbrook Winery, Fallbrook, CA (08/2018–11/2018)