

# Rosanna Neuhausler

Looking to apply human-marine system domain knowledge and statistical skillset in addressing environmental concerns.

## Contact

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✉ rneuhausler@berkeley.edu

📞 1-734-709-6470

📍 New York, NY

## Education

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**University of California, Berkeley**

**Ph.D.** Geography, Earth System Science. *Adv. Candidacy 2019*

**Ph.D. Minor** Computational and Data Science and Engineering  
*2016 - May 2021*

**B.A** Urban Studies

**B.S.** Conservation & Resources Studies *2012 - 2016*

## Skills

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**Methods/Concepts:** Complex Systems Analysis, Remote Sensing/GIS, Machine Learning

**Technical:** Python, R, MATLAB, Git, LaTeX, ArcGIS, Photoshop

**Language:** English, German, and Swiss-German.

## Awards

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**NASA FINESST**  
*2019 - 2022*

**ISEECI Summer Research Grant 2018**

**NSF Research Traineeship Fellowship 2017 - 2018**

**Berkeley Conference Travel Grant 2017**

**EWJ Gateway Fellowship**  
*2016 - 2017*

## Research

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**Ph.D. Candidate 2019 - May 2021**

**Environmental Systems Dynamics Lab, UC Berkeley, California**

Creating pixel-level land use classifier for remotely sensed imagery across the Pacific Ocean, data pipeline, and Random Forest model for investigating various spatial determinants of coral reef health. As project manager, created collaboration with a team at NOAA and applied for/received funding for my and my undergraduate research assistant's salaries from NASA.

**Visiting Researcher Summer 2017**

**Mathematical Institute, Oxford University, United Kingdom**

Developed a stochastic spatiotemporal object-oriented python model of coral reef benthic coverages for analysis of quantifying spatial competition.

**Research Assistant 2014 - 2015**

**Center for Catastrophic Risk Management, UC Berkeley, California**

Gathered, managed, and processed terrestrial spatial data in multi-server network for simulating Sea Level Rise impact on the California's coastline infrastructure.

## Internships

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**Cal Energy Corps Participant Summer 2015**

**Chinese University of Hong Kong, Hong Kong**

Wrote MATLAB functions to semi-automate process of segmenting fisheye images of courtyard enveloping structures for calculating the Urban Heat Island Effect of various building materials. Taught myself how to code and explained code to the architecture majors that then used it.

**Architect Intern Summer 2013**

**Ardnt Geiger Herrmann Architecture Firm, Switzerland**

Designed interior features for an eight million dollar house on CAD software. Contributed to numerous projects presentation prep and CAD drawings.

## Leadership

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**Graduate Student Instructor Spring 2020 and Fall 2018**

**Geog 40: Intro to Earth System Science, UC Berkeley, California**

**Assistant Instructor Summer 2018**

**University of Tokyo Data Science Boot Camp, Japan**

**Organizer/Leader Summer 2018**

**Sagehen Natural Reserve Station Data Camp, California**

**Community Liaison Spring 2013**

**Cool California Challenge, California**

**Co-captain/Teammate 2008 - 2012**

**Pioneer High School Track & Cross Country, Ann Arbor MI**