

Rosanna Neuhausler

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

Contact

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📍 California

Education

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

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

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

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

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

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