

Rosanna Neuhausler
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CONTACT

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📍 Berkeley, CA

EDUCATION

**University of California,
Berkeley**

Ph.D. Geography, Earth System
Science.

Adv. Candidacy 2019

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

B.A. Urban Studies

B.S. Conservation & Resources
Studies
2012 - 2016

SKILLS

Methods: Data Science/ML/
Statistics, Remote Sensing, GIS,
data pipelines

Technical: Python, R, Git,
ArcGIS, Google Earth Engine

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 AND INTERNSHIPS

Ph.D. Candidate

2019 - Aug 2021

Environmental Systems Dynamics Lab, UC Berkeley, California

Developing a data pipeline connected to various REST APIs and Cloud Services for processing terabytes of data used in dissertation. Using ML to extract land use information from satellite imagery. As PM, created collaboration with NOAA and received funding from NASA for myself and my undergraduate research assistant.

Visiting Researcher

Summer 2017

Mathematical Institute, Oxford University, United Kingdom

Developed a stochastic spatiotemporal agent-based model in Python of coral reef benthic coverages for quantifying spatial competition patterns.

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 flood impact on California's coastline infrastructure.

Cal Energy Corps Participant

Summer 2015

Chinese University of Hong Kong, Hong Kong

Wrote MATLAB functions to semi-automate process of segmenting fisheye images for calculating Urban Heat Island Effect of various building materials.

Architect Intern

Summer 2013

Ardnt Geiger Herrmann Architecture Firm, Switzerland

Designed interior features and prepared visualizations for client meetings.

SELECT PROJECTS

Visualizing Voices - Hackathon Winner

Fall 2018

Created a webscraper to pull instances of water pollution mentions on blog posts from CA non-profit to detect gaps in government's water quality data.

Face Recognition on the Edge

Fall 2018

Used AI on intelligent edge devices to create a cloud-independent intruder detection system for final project of a graduate Operating Systems course.

LEADERSHIP

Graduate Student Instructor

Spring 2020, Fall 2018

University of California, Introduction to Earth System Science

Assistant Data Science 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, Michigan