Rosanna Neuhausler

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rneuhausler.github.io

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 - Dec 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 - Dec 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