

# KAITLYN ZEICHICK

## EXPERIENCE

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### Metis · Remote · Chico, CA Data Scientist

Jan. 2021 to Mar. 2021

Completed an intensive 12-week data science bootcamp and honed skills in programming, machine learning, data visualization, and presentations. Selected work includes:

#### Predicting Rock Climbing Route Popularity

Used linear regression and regularization to predict a rock climbing route's popularity score so that route developers can more effectively allocate their time and money. Scraped the data from Mountain Project. Tools used: BeautifulSoup, Pandas, NumPy, Sklearn, Matplotlib, Seaborn.

#### Predicting Faulty Water Pumps in Tanzania

Deployed a random forest model, optimizing for recall and accuracy, to predict whether or not a water pump in Tanzania is faulty. Created a logistic regression model for interpretability to identify features that increase the odds of a pump being faulty. Tools used: Pandas, NumPy, Seaborn, Matplotlib, Sklearn, SQL.

#### What Makes People Happy

Used topic modeling and scattertext plots to explore what makes people happy by demographic. Focused on how families influence one another's happiness. Tools used: Scattertext, NLTK, Pandas, NumPy, Seaborn, Matplotlib.

#### Predicting Rock Climbing Performance

Developed a Random Forest Regressor model, optimizing the RMSE score, that predicts the highest grade a person will climb a month into the future. Findings from this project also revealed a gender difference in how people define what grade they climb. Tools used: Selenium, Pandas, NumPy, Seaborn, Matplotlib, Sklearn.

### Chico State Enterprises · Chico, CA MSTI Research Assistant

Nov. 2020 to Jan. 2021

- Recruited Computer Science high school teachers in Northern California to get CS authorizations through the Mathematics Science Teachers Initiative grant.

### Harvey Mudd College · Claremont, CA

May 2018 to May 2020

#### Google Data Science Curriculum Developer (2019 - 2020)

- As a computer science major, worked collaboratively with two Google liaisons to create the data science curriculum for Scripps College.
- Refined and developed curriculum for Google's open-source intro to data science curriculum.
- Presented the curriculum to stakeholders including: Google employees and the Harvey Mudd computer science faculty and students.

#### Computer Science Education Researcher (2018)

- Developed Python social-justice themed homework assignments for intro to computer science courses that were published on EngageCSEdu.
- Wrote tips for the CS Teaching Tips account and prepped materials for workshops.

### 9 Dots · Los Angeles

May 2019 to Aug. 2019

#### Computer Science Education Intern

- Recorded and collected qualitative data for a computer science education study by observing a Scratch summer course and by interviewing students ages 8-10.
- Influenced data collection and data visualization methods through weekly meetings that resulted in an internal report shaping subsequent educational practices for the company.

### Scripps College · Claremont, CA

Sept. 2017 to May 2020

#### Psychology Research Assistant (2017 - 2018)

- Worked in the Scripps Adult Development Lab and programmed a portion of the aging and mimicry of facial emotions study in e-prime.
- Ran participants for the pupillary contagion lab and working memory study.

#### Outdoor Wilderness Leadership Manager (2017 - 2020)

- Managed staff, including hiring and directing work, held weekly staff meetings, managed gear, managed the budget, and attended annual budget hearings.
- Created a website to track equipment, employees, and outdoor trips.
- Advertised to the 143 members on our mailing list and the 681 members following our Facebook group.

## VOLUNTEERING

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### Chico State (OLLI) · Technology Instructor Sept. 2020 to Nov. 2020 · Chico, CA

- Developed and taught a weekly course called "Exploring the Googaverse" to fifty community outreach students.

### Chico State (OLLI) · Spanish Instructor Jan. 2016 to Mar. 2016 · Chico, CA

- Developed and taught a weekly conversational Spanish course to seven community outreach students.

## CONTACT

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in kaitlyn-zeichick-44a990140/

🔗 kaitlyn-k-zeichick?tab=repositories

## EDUCATION

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### Scripps College

BS Cognitive Science with a concentration in Computer Science 2020

## SKILLS

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### LANGUAGES + LIBRARIES

Python  
pandas  
Numpy  
Scikit-learn  
BeautifulSoup  
SQL  
Matplotlib  
Selenium  
NLTK

### MACHINE LEARNING

Regression  
Classification  
Natural Language Processing  
Neural Networks

### DATA VISUALIZATION

Seaborn  
Tableau  
Matplotlib

### SOFT SKILLS

Communication  
Critical Thinking  
Team Player  
Adaptable  
Motivated

## ACTIVITIES

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Classical Piano Student  
2016 to Current

Claremont Climbing Team · Member  
2016 to 2020

## AWARDS

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Scripps College · Cum Laude  
May 2020

Scripps College · Dean's List

Bruce and Lynn Felt Endowed Scholarship