

# Christopher Remmel

858-216-5068 | [calremmel@gmail.com](mailto:calremmel@gmail.com) | [GitHub](#) | [LinkedIn](#) | [Website](#)

Data Scientist currently building machine learning pipelines for bioengineers. Highly organized, friendly, and research oriented. Combines technical curiosity, strong people skills, and conservatory-honed focus to efficiently plan and execute projects of all sizes.

## TECHNICAL SKILLS

Python (pandas, numpy, scikit-learn, keras, geopandas, folium), R, SQL, NLP, Machine Learning, Deep Learning, Data Visualization

## TECHNICAL PROJECTS

### Who Owns Burlington? | [GitHub](#) | [Heroku](#)

- + Worked with VTDigger.org to build an interactive mapping and reporting tool in support of investigative journalism
- + Used plotly and dash Python libraries to enable journalists to dynamically search and visualize Burlington VT real estate data from multiple government sources

### Identifying Parody and Clickbait with Deep Learning | [GitHub](#)

- + Built a convolutional neural network for classifying news headlines into the following categories: Real, Parody, and Clickbait
- + Achieved ~80% accuracy on test data after training on 35,000 headlines

### Predicting the Diabetes Belt | [GitHub](#)

- + Used logistic regression to predict adult diabetes risk level by US County using data from USDA Food Environment Atlas
- + Reproduced and updated CDC maps displaying adult diabetes risk using geographic data libraries in Python

## EMPLOYMENT HISTORY

### Data Consultant

#### **Data Analyst, Thayer School of Engineering, Dartmouth College** (March 2019 - Present)

- + Designs and implements end-to-end machine learning pipelines for classification and regression of test groups by antibody response using Python and R
- + Performs statistical tests and generates highly customized visualizations for team of bioengineers using Python and R

#### **Practice Content Creator, DataCamp** (February 2019 - Present)

- + Creates instructional materials for students in data science and analytics
- + Developed practice pool of exercises for *Extreme Gradient Boosting with XGBoost* and *Introduction to Data Science with Python*

### Fundraising and Development Professional

#### **Development Coordinator, Dartmouth College** (October 2016 - July 2018)

- + Managed volunteer teams for the Classes of 1956 and 1960, raising over \$725,000 for financial aid
- + Analyzed constituent data using OBIEE Data Warehouse, Python, Excel, and VBA

#### **Development Assistant, The Nature Conservancy** (August 2015 - September 2016)

- + Performed research to identify prospective large donors, navigating public, internal, and third-party sources
- + Maintained donor records using Blackbaud CRM, coordinating with finance to track gifts and interactions

### Opera Singer

#### **Independent Contractor, Various Companies** (May 2009 - September 2016)

- + Principal artist, supporting artist, and chorister at top US arts organizations, including: Santa Fe Opera, Wolf Trap Opera, Chicago Opera Theater, Grant Park Symphony, Opera Santa Barbara, and Haymarket Opera

## EDUCATION

### Flatiron School

2018 - Present

Online Data Science Bootcamp

### Chicago College of Performing Arts

2009 - 2011

M.M. in Opera

### UCLA

2005 - 2009

B.A. in Music