

mathematician • coder • teacher

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contact	education
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2007–2013 **Ph.D.** Mathematics University of California, Irvine rgholben@gmail.com

2003–2007 **B.A.** Mathematics & Physics Colby College (206) 359-5783

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interests

machine learning

analytics algorithms data scraping problem solving

### work experience

2015-Now	Visiting Assistant Professor	Furman University
	Calculus, probability, Markov chains, game theory	
2014-2015	Instructor	University of California, Irvine
	Calculus, linear algebra, differential equations, TA men	torship
2007-2013	Instructor & Teaching Assistant	University of California, Irvine
	Lower & upper division mathematics through analysis	& topology
2006-2007	Research Assistant	Colby College

Laser lab, model building, C++ for driving experiments

# projects

OKC Python, Beautiful Soup, Matplotlib, AWS, MongoDB

Scrapes data from a popular dating website, maintains a database hosted with AWS, and visualizes interesting demographics. Ongoing, aims to use machine learning to classify fake profiles.

**Prettify** Python, HTML/CSS, Javascript, Markdown

Automatically converts raw text notes for ICS-33 at UC Irvine into a user-friendly website for current students to use. Identifies code, ASCII diagrams, and English language using contextual clues, applying appropriate syntax highlighting.

RedditDB Python, Flask, PRAW, AWS, MongoDB

Precursor to OKC, scraped post and comment data from Reddit, storing in a database hosted on AWS. Used Flask to serve a user-facing website for adding to and querying the database for aggregate statistics.

# technology

#### Languages

Python, C/C++, Lua, HTML/CSS, LATEX

#### Python modules

NumPy, pandas, matplotlib, Seaborn, Graph-tool, scikit-learn, Beautiful Soup, Flask, PRAW

### **Other**

Random Forests, SQL, MongoDB, Amazon Web Services, Git, iPython/Jupyter, Mathematica