

# ANDREW KNAUFT

Mathematician, Communicator

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## EDUCATION

**B.Sc. in Mathematics** *University of California, Irvine*

📅 2009 – 2013

📍 Irvine, CA

Linear Algebra, Topology, Statistics, etc. Graduate-level coursework in Analysis, Mathematical Logic.

**Minor: Information and Computer Science**

Data Structures and Algorithms, Human-Computer Interaction, (classical) Artificial Intelligence

**Minor: Linguistics**

Syntax, Language Development, Psychology of Language

**Single Subject Teaching Credential (CA)**

Teaching of Mathematics in grades twelve and below, including preschool, and classes organized primarily for adults. EL Authorization / CLAD Certified.

## WORK EXPERIENCE

**Research Assistant** *SF Exploratorium*

📅 2017

📍 San Francisco, CA

Support the Visitor Research and Evaluation department in collecting and understanding data regarding exhibit effectiveness. Conduct in-person interviews, code video and audio data, and fulfill other rolls as called upon.

**Math Teacher** *Livermore Valley Charter Preparatory (LVCP)*

📅 2013 – 2016

📍 Livermore, CA

Designed and delivered curriculum for courses aligned to Common Core standards, focused around project-based and inquiry-driven instruction, and utilizing a standards-based grading scheme. Coordinated a math elective focusing on mathematical modeling and research. Emphasized technology as a tool for understanding mathematics. Led regular professional development sessions on integrating technology into teaching.

Course websites: <https://sites.google.com/a/lvcp.org/a-math-knauft/>

**UTeach Instructor** *University of California, Irvine*

📅 Spring 2012

📍 Irvine, CA

Designed and taught a ten-week course on the history and cognitive theory of Visual-Spatial Ability, with special focus on practicing and improving this aspect of intelligence.

Course website: <https://eee.uci.edu/12s/87637>

**Intern Manager** *UCI Noyce Program*

📅 Summers, 2010 – 2012

📍 Irvine, CA

Over the two years, placed thirty-one UCI undergraduate students at six different informal science centers. Served as liaison between the centers' educational directors, interns, and coordinators of the Noyce Internship. Trained and evaluated interns in informal lesson creation and analysis. Established virtual framework for future years' interns. Built advertising website for Noyce Internship.

Website: <https://sites.google.com/site/ucinoyce/>

## ADDITIONAL PURSUITS

- Category Theory
- Data Visualization
- Machine Learning / Neural Networks
- Quantum Computing

### Enduring Passions

- Mathematical
  - Cognition
  - Communication
- Logic
- Philosophy
- Linguistics
- Interaction Design
- Explorable Explanations

## TECHNICAL SKILLS

Python Java Javascript (incl. d3js)  
HTML/CSS  $\LaTeX$  Excel SQL

## AFFILIATIONS

**NCTM**

member

📅 2011-2013

**#MTBoS and #MTBoSBA**

member, web admin

📅 2011-current

**Desmos**

Teaching Fellow

📅 2017-current

## TALKS/TRAININGS

**Irvine Math Project**

Lesson Design with  
Technology

📅 May 2017  
📍 Irvine, CA

**UTeach Alumni**

**Conference**

Building Interactive Math  
Demonstrations

📅 July 2016  
📍 Austin, TX

**LVCP**

Powerschool for Records  
and Communication

📅 August 2016  
📍 Livermore, CA

**UCI Cal Teach**

Digital Assessments

📅 August 2015  
📍 Irvine, CA

**LVCP**

Powerschool for Records  
and Communication

📅 August 2015  
📍 Livermore, CA

**LVCP**

Grading with Competencies

📅 November 2014  
📍 Livermore, CA