

ANDREW KNAUFT

Mathematician, Educator

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WORK EXPERIENCE

Graphing Specialist *Desmos*

📅 Jan '18 – current 📍 Remote

Design, refine, and adapt digital materials for Desmos teaching faculty and curriculum partners. Build a collection of modular graph components, following functional programming principles. Establish tools and techniques to replicate the experience of animation editors using low-level mathematical functions. Collaborate with a small team to establish a working style guide with attention to usability and interaction design. Communicate with clients to manage deadlines and ensure product satisfaction.

Math Teacher *Aretè Preparatory Academy*

📅 Sep '17 – current 📍 West Los Angeles, CA

Integrated Math I, III, IV Calculus AB Neuroscience

Facilitate seminar-style courses focused on building mathematical fluency within a broader context of philosophical inquiry. Provide for authentic demonstrations of content knowledge through traditional and non-traditional assessment strategies. Integrate dynamic visualizations into course curriculum to support learning and strengthen retention. Support administrative staff in managing student data and coordinating monthly full-school non-academic learning days.

Research Assistant *SF Exploratorium*

📅 Mar '17 – Aug '17 📍 San Francisco, CA

Supported the Visitor Research and Evaluation department in collecting and understanding data regarding exhibit effectiveness. Conducted in-person interviews, coded video and audio data, and fulfilled other roles as called upon.

Math Teacher *Livermore Valley Charter Preparatory (LVCP)*

📅 Aug '13 – Sep '16 📍 Livermore, CA

Algebra 1 Calculus AB (AP) Calculus BC (AP)

Statistics AP Statistics Math Modeling

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.

EDUCATION

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

📅 2009 – 2013 📍 Irvine, CA

Minors in Information and Computer Science, Linguistics
California Single-Subject Teaching Credential (Math)

SUMMARY

- Mathematician with 7+ years teaching and curriculum design experience.
- Fascinated by the application of statistical models to questions of brain development and mathematics acquisition.
- Skilled in designing digital tools to facilitate the communication of complex concepts.

AFFILIATIONS

Mathematical Cognition and Learning Society

Member 2019 – current 📅

National Council of Teachers of Mathematics

Member 2011 – current 📅

#MTBoS and #MTBoSBA

Member, Web Admin 2011 – current 📅

TALKS/TRAININGS

UC Irvine Cal Teach

Digital Technologies and Cognitive Processes Jan '19 📅
Irvine, CA 📍

CSUN FYI-Math

Delightful Math Learning with Desmos Feb '18 📅
Northridge, CA 📍

Irvine Math Project

Lesson Design with Technology May '17 📅
Irvine, CA 📍

UTeach Alumni Conference

Building Interactive Math Demonstrations Jul '16 📅
Austin, TX 📍

LVCP

Powerschool for Records and Communication Aug '15 📅
Livermore, CA 📍

Managing Student Digital Work Apr '15 📅
Livermore, CA 📍

Competency-Based Grading Nov '14 📅
Livermore, CA 📍

TECHNICAL SKILLS

Javascript HTML/CSS Python
Java MATLAB Excel \LaTeX