Adrian Ferenc, PhD

SKILLS

Developer, educator, and mathematics PhD able to understand, break down, and creatively solve complex, technical problems; strong team-work, leadership, and written and oral communication skills with both expert and lay people cultivated during 10+ years of experience; and a mastery of: Javascript, Python, LaTeX, Mathematica, HTML, CSS, Django, Express.js, Flask, React, Node.js, MongoDB, Mongoose, PostgreSQL, SQL, Git/GitHub, Model View Controller, Model View Template, REST API

EXPERIENCE

Freelance Tutor, Los Angeles, CA — *Math and Science Tutor* JANUARY, 2009 - PRESENT

• Tutor students ranging from middle school to upper-level college in math and science classes

The Waverly School, Pasadena, CA — *Math Teacher* FEBRUARY, 2016 - JULY, 2020

- Taught math and programming classes ranging from beginning high school to college equivalent; developed curriculum for eight different courses by designing assignments, assessments, and course material; provided semi-annual narrative feedback for an average of 60 students per semester
- Served as Mathematics Curriculum Coordinator on a cross-divisional team of teachers and administrators for a school-wide reassessment of curriculum that established the school's mathematics scope and sequence for grades K-12
- Presented several times a year at open houses and back-to-school nights; conferenced daily with students and semi-annually with parents; delivered speeches honoring graduating seniors

University of California, Irvine — Lecturer/Teaching Assistant

SEPTEMBER, 2009 - SEPTEMBER, 2016

- Taught, developed curriculum, and wrote assignments for over 20 lower- and upper-college level math classes with class sizes ranging from 15 to 120 students
- Managed TAs and delegated responsibilities for the class

AWARDS AND WORKSHOPS

Professional Development in Diversity, Equity, and Inclusion
The Waverly School DEI Development Workshop 2019-2020 (planner,

organizer, and facilitator); Teaching Tolerance, 2020; Visions Inc., 2018, 2019; Graduate Assistance in Areas of National Need Fellow

University of California, Irvine, 2010, 2012, 2013, 2015

Outstanding Mathematics Teaching Assistant Award

University of California, Irvine, 2015 **Benedict Freedman Senior Prize in Mathematics**

Occidental College, 2008

EDUCATION

General Assembly, Remote

Software Engineering Immersive JUNE, 2021 - AUGUST, 2021

 Learned and honed current best-practices for web development with an emphasis on the MERN Stack, working individually and as a member of a team

University of California, Irvine

PhD and MS in Mathematics SEPTEMBER, 2009 - AUGUST, 2015

• Dissertation, "An Explicit Construction for Homotopy Monoidal Structure," in the area of Noncommutative Algebra

Occidental College, Los Angeles, CA

BA in Mathematics, with Honors AUGUST, 2005 - MAY, 2008

FEATURED PROJECTS

Online Atlas of Integer Sequences

General Assembly, AUGUST, 2021 Technologies: HTML, CSS, Javascript, Mongoose, Express, React, Node.js, Axios, Bcrypt, Plotly.js

• The user has access to the OEIS with the UX overhauled; The user can view any sequence as a list or triangular array, with the ability to apply a modulus to the numbers and/or a color gradient indicating the modulus, allowing the user to get a better understanding of the sequence visually; The user can view as many terms as they like as a scatter plot, a logarithmic scatter plot, or a histogram

Battleship

General Assembly, JUNE, 2021 Technologies: Vanilla JS, HTML, CSS

 The user faces an AI opponent that makes optimal moves and is difficult to defeat;
 The user gets a running commentary on the game with respect to hits, misses, and sunk ships keeping the results clear