KAYDEN MIMMACK

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Portfolio: mimmackk.github.io

EDUCATION

UC Davis
June 2020

M.S. Applied Mathematics
- Graduate Student Association Representative for applied mathematics program
- Areas of study included neural networks, numerical analysis, high-dimensional probability, mathematical biology, and asymptotic analysis

Tufts University
May 2018

B.S. Applied Mathematics
- Summa Cum Laude
- Mathematical Contest in Modeling Meritorious Winner, 2017
  - Modeled effect of self-driving cars on Seattle traffic using MATLAB
- Concentration in computer science

EXPERIENCE

UC Davis
Davis, CA
Sep 2018–June 2020

Graduate Teaching Assistant
- Incorporated household props, created digital visualizations, and utilized descriptive analogies to explain mathematical concepts
- Earned stellar student reviews
- Requested by name by multiple instructors

Associate Instructor in Mathematics
- Taught 50-student course in Linear Algebra
- Outstanding Graduate Student Teaching Award Nominee

UC Santa Barbara
Santa Barbara, CA
Summer 2017

Undergraduate Mathematics Researcher (NSF REU)
- Formulated conditions under which linearizations in the family $DL(P)$ are unusable for computing eigenvalues of matrix polynomials
- Coded, optimized, and analyzed numerical experiments in MATLAB to corroborate developed theory

Tufts Observer Student Magazine
Medford, MA
Jan 2015–May 2018

Multimedia Director
- Established team for designing and developing interactive web pages to creatively enhance content of featured articles
- Researched and implemented new JavaScript libraries and APIs bi-weekly
- Seamlessly integrated single-page applications with WordPress-hosted website

Tufts Int'l Programs and Partnerships
Medford, MA
Summers
2015, 2016, and 2018

Resident Counselor
- Built an inclusive, supportive community among 45 students from 7 countries
- Mediated interpersonal conflicts and culture clashes with empathy and care
- Advocated for students in crisis facing language barriers with healthcare professionals
- Identified and intervened in cases of harassment and threats to students' safety

SKILLS

- Python
- MATLAB
- C/C++
- SQL
- HTML/CSS
- JavaScript
- Git
- Adobe InDesign
- Adobe Illustrator
- Adobe Photoshop