

Fahad Kamran

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EDUCATION

UNIVERSITY OF MICHIGAN

PHD STUDENT IN COMPUTER SCIENCE

Begun August 2018 | Ann Arbor, MI

UC BERKELEY

TRIPLE MAJOR IN PURE MATHEMATICS, COMPUTER SCIENCE, AND STATISTICS

Graduated May 2018 | Berkeley, CA
Cum. GPA: 3.8

CENTERVILLE HIGH SCHOOL

Graduated May 2014 | Centerville, OH
Graduated with an Honors Diploma
Awarded National AP Scholar

COURSEWORK

COMPLETED

Structure and Interpretation of Computer Programs
Multivariable Calculus
Data Structures and Algorithms
Linear Algebra and Differential Equations
Introduction to Real Analysis
Introduction to Artificial Intelligence
Introduction to Complex Analysis
Concepts of Probability
Efficient Algorithms and Intractable Problems
Advanced Linear Algebra
Introduction to Machine Learning
Abstract Algebra
Concepts of Statistics
Elementary Algebraic Topology
Introduction to Database Systems
Introduction to Time Series

SKILLS

PROGRAMMING

Areas of skill:

• Data Structures • Artificial Intelligence
• Teaching Techniques • Algorithms •
Machine Learning • Data Analytics •
Data Science

Programming languages known:

• Python • R • SQL • Java • C • SASS •
Javascript • Ruby on Rails • Git • Unix •
SQL • Android • \LaTeX • HTML • CSS •
MIPS • PHP • MEAN.js

SUMMER LECTURER (FOUNDATIONS OF DATA SCIENCE)

May 2018-August 2018 | Berkeley, CA

- I was one of two co-instructors in charge of a 250 person summer course.
- My basic responsibilities included preparing materials for lecture, lecturing, logistical maintenance for the course, assignment creation, exam creation, grade compilation and assignment, and staff organization and mentoring.

HEAD TEACHING ASSISTANT (DATA SCIENCE, AI, DATA STRUCTURES)

January 2016-May 2018 | Berkeley, CA

- I have taught 6 semesters worth of courses: Foundations of Data Science four times (Head TA all four times), Introduction to Artificial Intelligence, and Data Structures and Algorithms.
- My basic responsibilities include teaching sections, holding office hours, creating exams and worksheets, and overall course development.
- For my semesters with Data Science, I was in charge of creating a lot of material as it is a new course. I was also in charge of building the website in Fall 2017: data8.org/fa16, revamping the autograding process of our course, and training our staff.

84.51° (KROGER/RALPHS) DATA ANALYST INTERN

May 2017-August 2017 | Cincinnati, OH

- Used machine learning models to select important targeting variables to identify which households to send coupon offers to.
- Introduced Natural Language Processing to the company, creating an application to extract themes from comments and writing an introductory document to explain the concept to beginners.

COMPUTER SCIENCE MENTORS PRESIDENT

January 2015 - May 2017 | Berkeley, CA

- I taught both sections for course content as well as sections on how to teach.
- I am part of the executive committee. I was previously the data analyst but I became the president of the organization for a year. I am now an advisor

MACHINE LEARNING RESEARCH EECS: YUSUF BUGRA EROL

March 2016 - December 2017 | Berkeley, CA

- Entered the Physionet challenge with a couple of PhD students in order to employ deep learning techniques to determine heartbeat abnormalities.
- Currently exploring the use of generative features from architectures like Wavenet in discriminative tasks

MACHINE LEARNING LECTURER DeCal: PRACTICE DATA SCIENCE SKILLS FOR INTERNSHIPS

August 2017 - December 2017 | Berkeley, CA

- Designing and lecturing 6 weeks for a DeCal course aimed at teaching students basic ML and how to apply it in industry

PROJECTS

TLDR WWW.GITHUB.COM/TOMMYHUYNH/TLDR

October 2015

- Created a google chrome extension which reads in an article and summarizes it, with the option of a small, medium, or large summary using CSS and Javascript. I primarily worked on the algorithm for creating the summary.

CHORES WWW.CHORECYCLE.HEROKUAPP.COM

June 2016-Present

- Created a ruby on rails application to streamline the process of chore distribution and completion for my apartment.