

Davina ZAMANZADEH

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EDUCATION

University of California, Los Angeles

MSc (S21) | PhD (IP) - COMPUTER SCIENCE GPA: **4.0/4.0** SEPT 2018 - PRESENT

- Research in **eHealth and Machine Learning** (ML) with Dr. Majid Sarrafzadeh
- *Master's thesis*: autoencoders for imputation on large clinical datasets.
- *Relevant coursework*: ML, ML Theory, Probabilistic Graphical Models, Automated Reasoning, Probabilistic Programming and Relational Learning, Web Information Management, Natural Language Processing (NLP)

University of California, Santa Barbara

BSc - COMPUTER SCIENCE GPA: **3.93/4.0** SEPT 2014 - JUNE 2018

- **Ranked #1** in graduating class with Distinction in Major.
- *Relevant courses*: AI/ML, Networking, Security, Computer Vision, Distributed Systems

RESEARCH

eHealth Research Lab, UCLA

SEPT 2018 - PRESENT

- CRRT: Developing a system to predict if a patient with late-stage kidney disease will benefit from a gentler form of dialysis; collaboration with UCLA Health and Cedars Sinai.
- CURE-CKD: Developing novel imputation techniques to assist with prediction tasks regarding patients with Chronic Kidney Disease (CKD); collaboration with UCLA Health CURE-CKD Team.
- Project REFOCUS: Constructing a racism-aware COVID-19 surveillance system to address health inequities; collaboration with UCLA School of Public Health and the CDC.
- Established a collaboration with Translational Genomics Group at Cedars Sinai to build a model to predict whether a Crohn's Disease patient will experience post-operative recurrence.

Programming Languages Lab, UCSB

JAN 2017 - JUNE 2018

- Investigated effective comparison metrics for test sets/fuzzers under Dr. Ben Hardekopf.

WORK EXPERIENCE

Machine Learning Intern at **Pinterest Labs**, *Remote*

JUNE 2020 - SEPT 2020

Query Recommendations: Built a gradient boosted decision tree to improve query recommendations to improve user engagement and experience.

- 156k increase in daily searches (3.09%), and sustained lift in product usage past week 1 of the experiment. Ran A/B testing experiments to measure product impact.
 - Worked on the end-to-end machine learning pipeline (collect training data, assign labels, create features, train, evaluate, and deploy), and built workflow for hyperparameter tuning.
- Technologies:* python, java, scala, hadoop, SQL

Software Engineer Intern at **Pinterest**, *San Francisco, CA* JUNE 2017 - SEPT 2017

- **New Annotations Pipeline:** Built and optimized core components for Annotations (a powerful textual learning signal used across Pinterest), such as: underlying dictionary of terms and their canonical forms. Collaborated with colleagues on a ML and Natural Language Processing-focused team.

- **Internationalization:** Improved Annotations quality by analyzing and sanitizing the existing dictionary. Ensured that the distribution of Japanese scripts across the dictionary matched that of the Japanese users' queries, descriptions, etc.

Technologies: python, java, scala, scalding, spark

PUBLICATIONS

1. S. Fazeli, **D. Zamanzadeh**, A. Ovalle, T. Nguyen, G. Gee, M. Sarrafzadeh. *COVID-19 and Big Data: Multi-faceted Analysis for Spatio-temporal Understanding of the Pandemic with Social Media Conversations*. arXiv preprint arXiv:2104.10807 2021.
2. **D. Zamanzadeh**, P. Petousis, T. Davis, SB. Nicholas, D. Reunger, X. Wang, K. Norris, OK. Duru, K. Tuttle on behalf of the UCLA Health-Providence St. Joseph Health (UCLA-PSJH) CURE-CKD Registry Study Team, AT. Bui, and M. Sarrafzadeh. *Using autoencoders for imputing missing data in eGFR decline trajectories of patients with CKD*. American Society of Nephrology (ASN) Kidney Week 2020.
3. M. Gavrilov, K. Dewey, A. Groce, **D. Zamanzadeh**, B. Hardekopf. *A Practical, Principled Measure of Fuzzer Appeal: A Preliminary Study*. IEEE International Conference on Software Quality, Reliability, and Security (QRS) 2020.
4. A. Hosseini, **D. Zamanzadeh**, L. Valencia, R. Habre, A. Bui, M. Sarrafzadeh: *Domain Adaptation in Children Activity Recognition*. IEEE Engineering in Medicine and Biology Conference (EMBC) 2019.

ACTIVITIES AND AWARDS

2020 -	AMIA Podcast Social Media Ambassador: In charge of creating
PRESENT	content and managing Twitter for For Your Informatics (@FYInformatics).
2018 & 2019	Graduate Dean's Scholar Award: Departmental award given to highly recruited students who are deemed to enhance UCLA's competitiveness.
OCT 2017	Grace Hopper Celebration Scholarship: Received one of few awards from the Computer Science department at UCSB to attend GHC.
SUMMER 2017	KPCB Fellow and Decision Committee: Selected to participate in networking events with technical leaders in Silicon Valley. Served on the Decision Committee for potential 2018 Fellows.
SPRING 2016 -	Phi Sigma Rho Chapter Founder/Director of Design:
SPRING 2018	Established the UCSB chapter of Phi Sigma Rho, a national sorority for women in STEM, as part of the founding class. In charge of designs, and involved in planning events, writing bylaws, recruiting, and mentorship.
FALL 2014 -	SB Hacks Organizer: Planning/running a large-scale hackathon at
SPRING 2018	UCSB every year: involved in logistics (venue, food, etc), design, and getting sponsors.