

Mariam Doliashvili

## Statement of Purpose

I am a Computer Science Ph.D. student at the University of Hawai'i at Mānoa advised by Prof. Martha Crosby. My research interests are in machine learning and natural language processing (sentiment analysis, recommender systems, next word prediction).

My master's thesis was about a recommender system for emojis. I was an intern at Google Maps and Google Search teams, DeepMind and Facebook. I will spend Spring'20 at Twitter.

While doing an internship at Google DeepMind I have worked on [Population Based Training for Hyperparameters](#) and developed an interest in Meta-Learning that is surveyed in my literature review.

Before graduate school, I received a Bachelor's degree in Computer Science from Tbilisi State University. Where I got involved in research by doing a project in 'modeling with partial differential equations'. My bachelor's thesis was about 'Implementation and Analysis of Parallel Algorithms'.

I taught algorithms and data structures during my undergraduate degree. As a graduate student I was a teaching assistant for the following courses:

- **Fall'15:**
  - ICS 311 Algorithms
- **Spring'16:**
  - ICS 241 Discrete Mathematics
- **Fall'16:**
  - ICS 321 Data Storage & Retrieval
- **Spring'17:**
  - ICS 321 Data Storage & Retrieval
  - ICS 211 Data Structures
- **Fall'17:**
  - ICS 321 Data Storage & Retrieval
  - ICS 423 Data Security and Cryptography
  - ICS 415 Intro to Programming for the Web
- **Spring'18:**
  - ICS 321 Data Storage & Retrieval

- **Fall'19:**
  - ICS 222 Concepts of Computer Science

I have been participating in programming competitions since I took the advanced algorithms course from Eldar Bogdanov at Tbilisi State University. I have been coaching and preparing teams for algorithms competitions for the past 5 years.

In addition, I am passionate about increasing diversity in STEM. I have organized several meetups and lectures devoted to the issue, including Google Women Techmakers meetup in Tbilisi, Georgia in July of 2019. I have participated in the gender data visualization hackathon organized by "GeoStat" and "UN Women" where I have analyzed the newly surveyed data and designed creative ways for presenting it to the general audience.