ALYSSA MORROW

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EDUCATION

UNIVERSITY OF CALIFORNIA BERKELEY

Doctor of Philosophy, Computer Science.May 2017–present
Advisors: Anthony Joseph and Nir Yosef.
Masters of Science, Computer Science. August 2015–May 2017

UNIVERSITY OF WISCONSIN MADISON

Bachelor of Science GPA 3.94

HONORS AND AWARDS

GRADUATE RESEARCH FELLOWSHIP
AUG 2017-AUG 2020

National Science Foundation (NSF)

EUGENE L. LAWLER PRIZE
MAY 2017

Award from UC Berkeley EECS Student Awards Committee

RESEARCH

UNIVERSITY OF CALIFORNIA BERKELEY
GRADUATE STUDENT RESEARCHER

AMP LAB
- Distributed visualization for large genomic datasets
- Scalable kernel methods for sequence based prediction of transcription factor binding sites
- Generalized machine learning pipeline on epigenetic datasets

YOSEF LAB
- Epigenetic landscape of reprogrammed T cells
- Prediction methods ofr protein binding from chromatin accessibility

UNIVERSITY OF WISCONSIN MADISON
UNDERGRADUATE RESEARCHER

ANÉ LAB
- Correlation between enzyme concentration and gene expression in Medicago Truncatula plant species

PRESENTATIONS

EPIGENETIC LANDSCAPE OF REPROGRAMMED T CELLS

- Poster Presentation: RSG-DREAM 2017, New York, November 2017

MANGO: DISTRIBUTED VISUALIZATION FOR GENOMIC ANALYSIS

- Talk: Bioinformatics Open Source Conference (BOSC '16), Orlando, FL, July 2016
- Talk: Data by the Bay, San Fransisco, CA, May 2016
- Talk: EMBO Conference on Visualizing Biological Data (VIZBI 2016), Heidelberg, Germany, March 2016
- Tutorial/Talk: ISCB-LA SoIBio EMBnet 2018 (2018), Vina del Mar, Chile, November 2018

PUBLICATIONS

Morrow, A., et al. "Mango: Exploratory Data Analysis for Large Scale Sequencing Datasets." Cell Systems, in submission.

Morrow, A. "Distributed Visualization for Genomic Analysis." University of California, Berkeley EECS Technical Report EECS-2017-82. 2017.

Morrow A., et al. "Convolutional Kitchen Sinks for Transcription Factor Binding Site Prediction." arXiv preprint arXiv:170600125. 2017.

TEACHING

IMMUNOTHERAPY OF CANCER
SPRING 2017-SPRING 2018

- Developed course curriculum with Professor Nilabh Shastri, University of California-Berkeley for a new data science trial class
- Lead teaching assistent

COMMITTEES

SEARCH COMMITTEE: ASSOCIATE PROVOST FOR DATA SCIENCE DIVISION

- Will act as student representative on search committie for Associate Provost for the Division of Data Science and Information and Dean of the School of Information at UC Berkeley

WICSE 40th REUNION COMMITTEE MEMBER

- Aided in organization of UC Berkeley Women in Computer Science and Engineering (WICSE) 40th reunion

SERVICE

OUTDOOR COORDINATOR
CSGSA
AUG 2017-PRESENT

Computer Science Graduate Student Association
- Organize outdoor social events

SECRETARY
WICSE
AUG 2016-PRESENT

Women in Computer Science and Engineering
- Organize and document WICSE events
- Mentor new female grad students
- Update WICSE website

PEER ADVISOR
BAY AREA GPS
OCT 2016 - OCT 2017

Graduate Pathways to STEM
- Mentored minority prospective graduate applicants

STUDENTS MENTORED

Abhinav Adduri, UC Berkeley, Undergraduate
Weston Hughes, UC Berkeley, Undergraduate
Alex Ku, UC Berkeley, Masters
Gunjan Baid, UC Berkeley, Masters
George He, UC Berkeley, Undergraduate
Jung Lin Doris Lee, UC Berkeley, Undergraduate

WORK

MICROSOFT RESEARCH: INTERN
MAY 2017 - AUG 2017

- Investigating correlation between DNA methylation and gene expression data in cancer genomics

QUALCOMM: INTERN
MAY 2015 - AUG 2015

- Developed and tested Wide Band Code Division Multiple Access networking protocols

DEVELOPER: SMART UQ
SEPT 2014 - MAY 2015

- Developed middle and front end stack for simulation and analytics software
- Recruited software level 1 engineers

CO-MANAGER/DEVELOPER
TWIN LAKES PROGRAMMING
FEB 2014 - JAN 2015

- Co-designed and developed software intended to externally evaluate employer progress while exposing gender and race biases in the workplace

PROGRAM ANALYST INTERN
KOHL'S IT
MAY 2014 - AUG 2014

- Designed and developed a pipeline to recommend clothing using state of the art image recognition technology

PROGRAM MANAGER
SOFTWARE TRAINING FOR STUDENTS
AUG 2012 - SEPT 2014

- Taught custom seminars for large groups of students on subjects such as MATLAB, Javascript and Adobe design products
- Managed 25 peer teachers