

# ALYSSA MORROW

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## EDUCATION

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UNIVERSITY OF CALIFORNIA  
BERKELEY

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

UNIVERSITY OF WISCONSIN  
MADISON

Bachelor of Science GPA 3.94

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## HONORS

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NSF Graduate Research Fellowship  
National Science Foundation, August 2017 - August 2020

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## RESEARCH

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UNIVERSITY OF CALIFORNIA  
BERKELEY  
GRADUATE STUDENT  
RESEARCHER

AMPLAB: PROJECTS

- 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

UNIVERSITY OF WISCONSIN  
MADISON  
UNDERGRADUATE  
RESEARCHER

ANÉ LAB: PROJECTS

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

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## PRESENTATIONS

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MANGO: DISTRIBUTED  
VISUALIZATION FOR  
GENOMIC ANALYSIS

- Bioinformatics Open Source Conference (BOSC '16), Orlando, FL, July 2016
- Data by the Bay, San Francisco, CA, May 2016
- EMBO Conference on Visualizing Biological Data (VIZBI 2016), Heidelberg, Germany, March 2016

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## PUBLICATIONS

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

Morrow A., Shankar V., Petersohn D., Joseph A., Recht B., Yosef N. "Convolutional Kitchen Sinks for Transcription Factor Binding Site Prediction." arXiv preprint arXiv:170600125. 2017.

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## WORK

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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

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## WORK (CON'T)

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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

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## TEACHING

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Immunotherapy  
of Cancer: Success and Failure

- Course assistant for Professor Nilabh Shastri, University of California-Berkeley

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## SERVICE

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SECRETARY  
WICSE  
AUG 2016-PRESENT

WOMEN IN COMPUTER SCIENCE AND ELECTRICAL ENGINEERING

- Help organize and document WICSE events
- Mentor new female grad students
- Update WICSE website

Bay Area GPS Peer Advisor  
OCT 2016 - PRESENT

GRADUATE PATHWAYS to STEM

- Mentor minority prospective graduate applicants

ENGINEERS WITHOUT  
BOARDERS  
JAN 2011-May 2013

- Worked on community sourced irrigation systems in Kenya
- Specialized in community water education

STUDENTS MENTORED

- George He, UC Berkeley, Undergraduate
- Jung Lin Doris Lee, UC Berkeley, Undergraduate