

David Merrell

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dpmerrell.github.io

Education

PhD Computer Science (IN PROGRESS)

Jan 2019 - Present

University of Wisconsin – Madison

Research. Supervised and unsupervised machine learning on RNA-seq data.

Advised by David Page.

Coursework. Statistical inference.

MS Computer Science

Dec 2018

University of Wisconsin – Madison

Research. Exact probabilistic inference. Advised by Aws

Albarghouthi and Loris D'Antoni. See our IJCAI 2017 publication.

Coursework. Optimization. AI. Machine Learning. Program Analysis & Verification.
Bioinformatics. Algorithms.

BS Mathematics, cum laude

Apr 2014

Brigham Young University—Minor in Physics—GPA 3.9

Employment

RAND Corporation

Sep 2014 - Mar 2016

Operations research, simulations, and data analysis for DoD projects.

Sandia National Laboratories

Summer 2013; Summer 2014

ALEGRA shock and multiphysics simulation code.

Pacific Northwest National Laboratory

Summer 2012

Simulations and data analysis for the NIFFTE nuclear fission experiment.

Skills

Technical

- **Programming Languages.** Python (strong), MATLAB (familiar), C++ (familiar), Java (familiar), R (exposed), SQL (exposed), OCaml (exposed), Mathematica (exposed).
- **Packages and Libraries.** numpy, scipy, pandas, matplotlib, sklearn, tensorflow, keras, tensorflow-probability, edward2, pymc3.
- **Miscellaneous.** git, GNU/Linux, L^AT_EX, Singularity containers, bash, Jupyter, SolidWorks.

Soft

Writing, public speaking, event planning, polite disagreement, teaching.

Service & Leadership

President — UW-Madison Student ACM chapter (SACM)

Aug 2018 - Present

Restructured the organization to improve division of labor. Recruited 25 student officers with clearly defined responsibilities. Increased budget by 50% through fundraising. Planned and executed numerous social and professional activities.

Chair — UW-Madison CS Welcome Weekend Committee

Mar 2018

Organized a weekend of activities for prospective CS graduate students. Led a team of 10 student volunteers.

Eagle Scout

Aug 2007 - Present