David Merrell

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Education

PhD Computer Science
Sep 2016 - Present

University of Wisconsin – Madison

Current PhD student, interested in optimization and machine learning.

Coursework:

CS 524 (Intro to Optimization)	AB
CS 540 (Intro to AI)	A
CS 761 (Machine Learning Theory)	A
CS 704 (Principles of Programming Languages)	A
CS 703 (Program Verification and Synthesis)	A
CS 577 (Intro to Algorithms)	A
CS 760 (Machine Learning)	*In progress*
CS 726 (Nonlinear Optimization)	*In progress*

BS Mathematics, cum laude
Apr 2014

Brigham Young University—Physics Minor—GPA 3.9

Coursework: Real analysis, matrix analysis/linear algebra, probability, numerical methods, ODEs, PDEs, complex analysis, computational physics, quantum mechanics, classical mechanics, abstract algebra.

Publications

David Merrell, Aws Albarghouthi, Loris D'Antoni. *Weighted Model Integration with Orthogonal Transformations*. IJCAI 2017.

Teaching

CS 240 (Discrete Mathematics) : TA

CS 540 (Intro to AI): TA

Work Experience

RAND Corporation
Sep 2014 - Mar 2016

Full Time Research Assistantship. I built software for operations research projects.

Sandia National Laboratories
Summer 2013; Summer 2014

Two internships. I developed heterogeneous material representations for the ALEGRA shock/MHD finite element code.

Pacific Northwest National Laboratory
Summer 2012

Internship. I characterized the performance of a computer vision algorithm.

Technical Skills

Python   ·   C++   ·   MATLAB   ·   Git

Linux   ·   bash   ·   R   ·   LaTeX   ·   Mathematica