

Mitchell James Wilson

Program in Applied Mathematics, The University of Arizona
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Email: mjw@math.arizona.edu
Birth date: September 2, 1986
Birthplace: Douglas, Arizona
Citizenship: U.S. Citizen
Gender: Male

Employment History

University of Arizona- Tucson, Arizona

Graduate Teaching Assistant (2010 - present)

Responsibilities: Instructing lower-leveled Mathematics courses,
assigning and grading homework, writing and grading exams

Courses: College Algebra, Calculus Preparation (College Algebra with
Trigonometry), Calculus I with Applications,

Undergraduate Research Assistant (2008)

Responsibilities: Programming in MATLAB and C++ as part of a group,
communicating with graduate students and supervisors

Topics: Combinatorial Ricci Flow, Weighted Delaunay Triangulations

Undergraduate Teaching Assistant (2006)

Responsibilities: Leading discussion and test review sections, grading
homework, grading exams with supervisor

Course: Calculus II

Mathematical Sciences Research Institute- Berkeley, California

Junior Researcher (2007)

Topics: Support Vector Machines, Machine Learning

Education

University of Arizona- Tucson, Arizona

PhD in Applied Mathematics, expected May 2014

Dissertation: Self-Adjusting Parameters in Haploblock Detection

Advisor: Dr. Joseph Watkins

Master's in Applied Mathematics, 2011

Areas of research: Information Geometry, Hybrid dynamical systems

Bachelor's in General/Applied Mathematics, 2009

Concentrations: Applied Analysis, Probability and Statistics

Bachelor's in Mechanical Engineering with Honors, 2009

Concentrations: Solid dynamics, Engineering Mathematics

Thesis: University of Arizona Solar Car Photovoltaic Array

Passed the Arizona FE Exam in Mechanical Engineering

Professional Qualifications

Microsoft Office, Internet

Programming in MATLAB, C++, R, Java, HTML

Modeling software: Solidworks, Working Model 2-D
Well-versed in Spanish

Awards/Grants

NSF/S-STEM Fellowship, 2009-2011
Outstanding Senior Award- Mechanical Engineering, 2009
National Hispanic Scholar, University of Arizona, 2005-'09

Presentations/Publications

"A Geometric Perspective of Statistical Inference,"
Student Brown Bag Presentation, April 2011
"Combinatorial Ricci Flow and Weighted Delaunay Triangulations,"
University of Arizona, 2008. Submitted to Department of Mathematics.
*"Supernova Recognition through Adaptive Constraint Reduction of Support
Vector Machines,"*
Mathematical Sciences Research Institute, 2007. Poster presentation at
2007 SACNAS. Submitted to Lawrence Berkeley National Laboratory.

Interests/Organizations

Secretary of student chapter of SIAM (2011-2012)
Member of SIAM, SACNAS, and AMS
Active enthusiast of bowling and billiards
NaNoWriMo participant