

Jeremy West

EMPLOYMENT

EDUCATION

Ph.D Mathematics, University of Michigan, 2013 (anticipated)
Advisor: Martin Strauss, Mathematics and Computer Science
Advisor: Long Nguyen, Statistics
M.S. Mathematics, Brigham Young University, 2009
Thesis: *The Expectation of Transition Events on Finite-state Markov Chains*
Advisor: Jeffrey Humpherys
B.S. Mathematics, Brigham Young University, 2007
B.S. Computer Science, Brigham Young University, 2007

HONORS

Mort Brown Excellence in Teaching Award, 2012, Univ. of Michigan Dept. of Math
Michigan Graduate Fellowship, 2010-12, Univ. of Michigan Dept. of Math
Quality Teaching Award, 2009, Brigham Young Univ. Dept. of Math
Research Fellowship Award, 2008, Brigham Young Univ.
Service Award, 2008, Brigham Young Univ. Dept. of Math
Heritage Full Scholarship Award, 2003-07, Brigham Young Univ.

PUBLICATIONS

6. *Nonparametric Estimation of f -Divergences using Lipschitz Regularity*. In preparation.
5. *Energy-optimal Process Scheduling in Multi-core Systems*, with Martin Strauss. In preparation.
4. *A Fresh Look at the Kalman Filter*, with Jeffrey Humpherys and Preston Redd. SIAM Review, 54(4): 801-823, 2012.
3. *Kalman Filtering with Newton's Method*, with Jeffrey Humpherys. IEEE Control Syst. Mag. 30 (2010), no. 6, 101-106.
2. *Computing Expected Transition Events in Reducible Markov Chains*, with Brian D. Ewald and Jeffrey Humpherys. SIAM. J. Matrix Anal. & Appl. Volume 31, Issue 3, pp. 1040-1054 (2009).
1. *The Analysis of Discrete Transient Events in Markov Games*, ACC'09 Proceedings of the 2009 American Control Conference, pp. 713-718.

PRESENTATIONS

- *The Analysis of Discrete Transient Events in Markov Games*, 2009 IEEE American Control Conference. St. Louis, MO. June 2009.
- *Event Counting in Markov Chains (Best Session Presentation Award)*, 23rd Annual BYU Spring Research Conference. Provo, UT. May, 2008.
- *A Functional Approach to Lossless Data Compression*, 22nd Annual BYU Spring Research Conference. Provo, UT. May, 2007.
- *A Formal Framework for Inductive Transfer in Machine Learning*, 22nd Annual BYU Spring Research Conference. Provo, UT. May, 2007.

WORKSHOPS AND INTERNSHIPS

Michigan Tech Research Institute, Research Intern; 2012
MSRI Summer Graduate Workshop on Elliptic Curves with Sage; 2010
NSF CSUMS "IMPACT" Summer Research Bootcamp (Instructor); 2007-11

SERVICE Organizer, Univ. of Michigan Student Combinatorics Seminar (2010)
Reviewer, IEEE Transactions on Automatic Control (2009)
Reviewer, IEEE Conference on Decision and Control (2009)

TEACHING **University of Michigan**
Calculus I
Calculus II (6 Semesters)
Calculus II (Course Coordinator)

Brigham Young University
Honors Linear Algebra
Scientific Computing
Quantitative Reasoning
Business Calculus (Independent Study Coordinator)

SOFTWARE Computer Associates
CONSULTING Northern Colorado Water Conservancy District
España Geotechnical Consulting
Resmark Systems
Concentrico
Agile Studios
Real Estate Data X-Change