

Paul Jones

CONTACT INFORMATION

Department of Mathematics
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PERSONAL INFORMATION

Date of Birth: July 3, 1980.
Citizenship: Canada.
Country of Birth: Canada.

RESEARCH INTERESTS

Probability, Computational Mathematics, Mathematical Modeling.

EDUCATION

University of California, Los Angeles, California USA

PhD., Mathematics (expected graduation date: March 2010)

- Thesis Topic: “Equilibrium Solutions of Aggregation–Diffusion Equations”
- Advisor: Professor Lincoln Chayes

M.A., Mathematics, December 2004

Pacific Union College, Angwin, California USA

B.S., Computer Science, Mathematics, June 2002

- *Summa Cum Laude*
- GPA: 3.94 (4.00 in major)

AWARDS

National Science Foundation

- Summer Internship Program Recipient, 2006

Pacific Union College

- Dean’s List, 1998–2002

POSTERS AND PUBLICATIONS

1. **July 2009** “Statistical Models of Criminal Behavior: The Effects of Law Enforcement Actions,” with P. J. Brantingham and L. Chayes. Submitted for publication.
2. **October 2007** “Statistical Models of Cops and Burglars,” with A. Bertozzi and L. Chayes, Crime Research Group, UCLA.

RESEARCH TALKS

1. **Scheduled for November 2009** “Mathematical and Simulation Models of Crime,” American Society of Criminology – 2009 Annual Meeting, Philadelphia.
2. **October 2007** “Statistical Models of Cops and Burglars,” with A. Bertozzi and L. Chayes, Crime Research Group, UCLA.

EXPOSITORY
TALKS

1. **Scheduled for November 2009** “Introduction to Multi-threaded Scientific Computing,” SIAM Software Engineering Seminar (Math 296-J), UCLA.
2. **November 2005** “The Asymptotic Determinant of the Discrete Laplacian,” Probability Participating Seminar (Math 290-K), UCLA.
3. **May 2005** “Coin flipping from a cosmic source: On error correction of truly random bits,” Probability Participating Seminar (Math 290-M), UCLA.

CONFERENCES
AND WORKSHOPS

1. **Scheduled for November 2009** “American Society of Criminology – 2009 Annual Meeting,” Philadelphia Marriott Downtown, Philadelphia.
2. **October 2009** “Agent-Based Complex Systems Workshop,” Institute for Pure and Applied Mathematics (IPAM), Los Angeles.
3. **March 2009** “Higher Order Geometric Evolution Equations: Theory and Applications from Microfluidics to Image Understanding,” Institute for Mathematics and its Applications (IMA), Minneapolis.
4. **February 2007** “Southern California Probability Symposium,” University of Southern California, Los Angeles.

TEACHING
EXPERIENCE

University of California, Los Angeles, Los Angeles, California USA

Instructor

Summer 2009

- **Lower Division Courses:** Introduction to Programming in C++.

Teaching Assistant

2006–present

- **Lower Division Courses:** Precalculus, Single variable Calculus, Multi-variable Calculus, Programming in C++.
- **Upper Division Courses:** Numerical Analysis, Ordinary Differential Equations.

Tutor

2004–2006

- **Lower Division Courses:** Probability.
- **Upper Division Courses:** Linear Algebra, Real Analysis, Complex Analysis.

PROFESSIONAL
EXPERIENCE

Pacific Union College, Angwin, California USA

Web Programmer

2002–2003

- Wrote web applications allowing students, staff, and faculty access to the primary college database.
- Designed and implemented web application for telephone billing.

Information Technology

1998–2002

- Configured and repaired college-owned computers.
- Provided technical support for faculty, staff, and students.

TECHNICAL SKILLS

- Operating Systems: Linux, Windows.
- Programming Languages: C/C++, Python, L^AT_EX, Java, Unibasic, HTML, CSS, PHP.
- Libraries: MPI, Boost, FFTW, FISHPACK, wxPython.