

# Jason T. Shaw

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## Education

Ph.D. Mathematics, Indiana University, 2005.

*Thesis Advisor:* Richard C. Bradley

*Thesis Title:* Spectral Densities of Discrete and Continuous-Indexed Random Fields

B.A. Mathematics, Iowa State University, 1999.

## Scholarly Interests

Actuarial Science & Financial Mathematics  
Probability Theory  
Markov Chains  
Stochastic Processes

## Professional Experience

### *Truman State University*

Assistant Professor of Statistics (2008-Present)

Visiting Assistant Professor of Mathematics and Statistics (2005-2008)

### *Indiana University*

Associate Instructor of Mathematics (1999-2005)

## Senior Integrating Capstone Experiences

Michael Kirner, *Markov Chains and Baseball*, Spring 2011

John Haman, *An Introduction to Probability Measure and Lebesgue Theory over  $\sigma$ -Fields*, Spring 2011

Tracy Hickenbottom, *Reinventing the Wheel*, Spring 2010

Chris Hassett, *Probability and Farkle*, Spring 2009

Brian Hingst, *Monopoly Markov Chain*, Spring 2009

Matt Verslues, *The Cantor Ternary Set*, Spring 2009

## Awards

William B. Wilcox Mathematics Award, Indiana University Department of Mathematics, April 2005

David A. Rothrock Teaching Award for Associate Instructors, Indiana University Department of Mathematics, May 2003

## University Service

Statistics Committee (2005-present, chair 2010-present) Campus Well-Being Committee (2011) Mathematics Undergraduate Committee (2005-present, chair 2009-2010)

Mathematics Student Support Committee (2005-present, chair 2006-2009)

- Recruited prospective students at many Visit Days - Organized Farkle and Poker Tournaments

SMACS Committee (2007-present)

- In charge of academic progress of SMACS scholars.

Blackboard Working Group (2010)

Starting Salary Task Force (2009-2010)

Read E-Journals for STEP program (Dec 2008 - Jan 2009)

Internal Sabbatical Review Committee (2008-2009)

Intramural Director Search Committee (June/July 2008)

Tutored in the IU Academic Support Centers (1999-2004)

## Course Experience

### Truman State University

College Algebra, (4 sections 2005-2006)

Plane Trigonometry, (4 sections 2006-2008)

Essentials of Calculus, (3 sections 2006-2007)

Basic Statistics, (20 sections 2005-2011)

Matrix Algebra (1 section 2008)

Statistical Quality Control (1 section 2008)

ANOVA (4 section 2008-2009)

Linear Regression/Time Series (9 sections, 2009-2011) Statistics, (6 sections, 2010-2011)

### Indiana University

Basic Algebra for Finite Mathematics

Pre-Calculus Mathematics

Introduction to Problem Solving

Brief Survey of Calculus I

Introduction to Finite Mathematics I/II

Finite Mathematics

Recitations: Calculus I, Calculus II, Calculus III

Assisted Statistical Techniques, (1 semester)

Graded Probability Theory I and

Time Series Analysis

## Publications

*A continuous spectral density for a random field of continuous-index*, Jason T. Shaw, *Journal of Multivariate Analysis* 100 (2009), 363-376.

*Random fields and the limit of their spectral densities: existence and bounds*, Jason T. Shaw, *Statistics & Probability Letters* 67 (2004) 213-220.

## Talks

**Missouri MAA Section Spring Meeting**, Columbia, MO, April 11 2011 *Scholarships in Mathematics and Computer Science at Truman State University*

- Missouri MAA Section Spring Meeting**, Columbia, MO, April 10 2011 *The  $(a,b,0)$  class of distributions*
- MCS Colloquium Series**, Truman State University, 16 September 2008 *A strictly increasing function with derivative zero almost everywhere*
- Missouri MAA Section Spring Meeting**, Springfield, MO, 19 April 2008 *Strictly increasing functions with derivative zero almost everywhere*
- AMS Meeting #1038**, Bloomington, IN, Indiana University, 5-6 April 2008 *A continuous spectral density for a random field of continuous index*
- MCS Colloquium Series**, Truman State University, 14 September 2006 *Using a Markov chain to model Yahtzee*
- Department of Mathematical Sciences Colloquium**, IUPUI, 9 March 2005 *Spectral densities of discrete and continuous-indexed random fields*
- Probability and Statistics Seminar**, Indiana University, 10 February 2005 *Spectral densities for continuous random fields*
- Probability and Statistics Seminar**, Indiana University, 30 November 2004 *The convergence of spectral densities for a sequence of random fields*
- Graduate Student Seminar**, Indiana University, 8 October 2002 *A Central Limit Theorem under strong mixing conditions*

## Conferences Attended

- Missouri MAA Section Spring Meeting, Columbia College
- Missouri MAA Section Spring Meeting, University of Central Missouri, 2010
- Missouri MAA Section Spring Meeting, Truman State University, 2009  
- Moderated three sessions
- AMS Meeting #1038, Bloomington, IN, April 2008
- Missouri MAA Section Spring Meeting, Missouri State University, 2008
- Joint Mathematical Meetings #1035, San Diego, CA, 2008
- Missouri MAA Section Spring Meeting, College of the Ozarks, 2007
- Missouri MAA Section Spring Meeting, University of Missouri, 2006
- Joint Mathematical Meetings #1014, San Antonio, TX, 2006
- AMS Meeting #985, AMS SS C1, Indiana University, Bloomington, IN, 2005  
- Provided technical support to invited speakers.
- Joint Mathematical Meetings #1003, Atlanta, GA, 2005