

Daniel Dobbs
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Mathematician
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Education

- **Ph.D. Mathematics**
University of Virginia May 2013
– Dissertation title: *Properties of measures and processes related to Brownian motion on infinite-dimensional Heisenberg-like groups*
- **M.S. Computer Science**
University of Nebraska, Omaha May 2008
- **M.S. Mathematics**
University of Wyoming August 2005
- **B.A. Mathematics and Computer Science**
Northwestern College May 2002

Employment

- **Trine University**
Assistant Professor of Mathematics Fall 2016 - Present
- **Huntington University**
Assistant Professor of Mathematics Fall 2013 - Spring 2016

Publications

1. Malliavin calculus on infinite-dimensional Heisenberg groups (with Nathaniel Eldedge). *In preparation.*
2. A dynamic model of systemic risk (with Zachary Feinstein, Alexander Munk and Triet Pham). *In preparation.*
3. A Chung-like law of the iterated logarithm for Brownian motion under certain random time-change *In preparation.*
4. Small deviations for time-changed Brownian motions and applications to second-order chaos (with Tai Melcher). *Electronic Journal of Probability* Volume 19, Number 85(2014).
5. Smoothness of heat kernel measures on infinite-dimensional Heisenberg-like groups (with Tai Melcher). *Journal of Functional Analysis* Volume 264, Number 9(2013).

Research Talks

- *Small deviations for an element of second order chaos*
Joint Mathematics Meetings January 2017
- *Opening Day Mathematics*
University of Northern Colorado Undergraduate Colloquium April 2016
- *Small deviations for an element of second order chaos*
Purdue University Probability Seminar December 2013
- *Properties of measures and processes related to Brownian motion on infinite-dimensional Heisenberg-like groups*
University of Virginia Probability Seminar April 2013
- *Smoothness properties of the law of Brownian motion in certain infinite-dimensional spaces*
Joint Mathematics Meetings January 2013
- *Two limit laws for a bilinear functional of a Banach space valued Brownian motion*
University of Virginia Probability Seminar September 2012
- *Smoothness properties of the law of Brownian motion in certain infinite-dimensional spaces*
Graduate Student Probability Conference, Georgia Tech April 2012
- *Smoothness results on infinite-dimensional Heisenberg-like groups*
University of Virginia Probability Seminar March 2012
- *What is an abstract Wiener space?*
University of Virginia Probability Seminar February 2012
- *What is the Lévy stochastic area process?*
University of Virginia Probability Seminar March 2011
- *What is the dichotomy theorem on an abstract Wiener space?*
University of Virginia Probability Seminar October 2010
- *Microcode optimization*
Sandia National Labs Summer Research Symposium August 2007
- *Network invariant properties*
University of Wyoming Graduate Student Research Symposium April 2005

Teaching/Pedagogy Talks

- *The Ruler Matters*
Joint Mathematics Meetings January 2015

Conferences & Workshops Attended

Joint Mathematics Meetings, Atlanta, GA	January 2017
Indiana MAA Fall Sectional Meeting, Purdue University	October 2016
Joint Mathematics Meetings, Seattle, WA	January 2016
Indiana MAA Fall Sectional Meeting, Purdue University North Central	October 2015
Midwestern Probability Colloquium, Northwestern University	October 2015
MRC in Financial Math, Snow Bird, UT	June 2015
Conference in Stochastic Analysis and Related Topics, Purdue University	May 2015
Indiana MAA Spring Sectional Meeting, Taylor University	March 2015
Joint Mathematics Meetings, San Antonio, TX	January 2015
Indiana MAA Fall Sectional Meeting, Trine University	October 2014
Midwestern Probability Colloquium, Northwestern University	October 2014
Indiana MAA Spring Sectional Meeting, IPFW	April 2014
Joint Mathematics Meetings, Baltimore, MD	January 2014
Midwestern Probability Colloquium, Northwestern University	October 2013
Joint Mathematics Meetings, San Diego, CA	January 2013
Graduate Student Probability Conference, Georgia Tech	April 2012
Southeastern Analysis Meetings, Georgia Tech	April 2010
VOTCAM, Virginia Commonwealth University	November 2009

Awards, Grants & Honors

Faculty Development Grant	Fall 2016
Hammel Research Grant	Summer 2014
Huskey Travel Grant	Spring 2013
GAAN Dissertation Year Fellowship	Fall 2012

Service to the University

Faculty Representative, Huntington University Student Concerns Committee	2015 - 2016
Faculty Sponsor, Huntington University Math Club	2014 - 2016
Faculty Sponsor, Huntington University Middle School Math Contest	2014 - 2016
Faculty Sponsor, Huntington University High School Math Contest	2013 - 2016
Faculty Representative, Huntington University Council for Student Success	2014 - 2016
Faculty Sponsor, Huntington University Putnam Exam Team	Fall 2013

Professional Memberships

- American Mathematical Society
- Mathematical Association of American
- Indiana NExT

References

- Tai Melcher (Ph.D. Advisor)
University of Virginia
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434-982-2782
- Christian Gromoll
University of Virginia
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434-924-4152
- Jonathon Peterson
Purdue University
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- Jeff Lehman (Teaching)
Huntington University
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