

DAVID DUNCAN

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Rutgers, The State University of New Jersey
Department of Mathematics
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Education

- **Ph.D. Mathematics**—Rutgers University
Student
 - Advisor: Chris Woodward
- **B.S. Mathematics-Comprehensive Option**—University of Washington
Degree Received: August, 2006
 - Distinction in Mathematics
 - Comprehensive Option
 - Minor in Physics

Research Interests

- Symplectic Topology
- Gauge Theory
- Mathematical Physics
- Math Education

Talks Given

- "Symplectic Field Theory Part II". Rutgers Graduate Geometry Seminar. November 2010.
- "Floer Field Theory". Binghamton University Graduate Conference in Algebra and Topology. November 2010.
- "A Brief Introduction to Symplectic Field Theory". Rutgers Graduate Geometry Seminar. November 2010.
- "Understanding Your Undergraduates: Your Students and Their World". Rutgers College Teaching Seminar II. September 2010.
- "Principal Bundles and Connections". Rutgers Graduate Geometry Seminar. September 2010.
- "Legendrian Contact Homology". Graduate Symplectic Field Theory Workshop. August 2010.

Fellowships, Awards, etc.

- RASTL Fellowship. 2010-2011.
- TA Excellence Award. Spring 2010.
- GAANN Fellowship. 2007-2008.

Seminar, Conferences, Workshops, etc.

- **Binghamton University Graduate Conference in Algebra and Topology. Binghamton, New York. November 2010.**
 - Speaker
- **Rutgers Graduate Geometry Seminar. Piscataway, New Jersey. 2010-2011.**
 - Co-organizer
 - Speaker
- **Graduate Symplectic Field Theory Workshop. Raymond, Maine. August 2010.**
 - Speaker

Teaching/Mentoring Experience

- **Undergraduate Courses—Rutgers University**
 - Math 151: Calculus I for Mathematical and Physical Sciences. Lecturer and Workshop Instructor. Spring 2011.
 - Math 152: Calculus II for Mathematical and Physical Sciences. Lecturer and Workshop Instructor. Spring 2010.
 - Math 151: Calculus I for Mathematical and Physical Sciences. Lecturer and Workshop Instructor. Fall 2009.
 - Math 151: Calculus I for Mathematical and Physical Sciences. Workshop Instructor. Spring 2009.
 - Math 135: Calculus I. Recitation Instructor. Fall 2008.
- **Directed Reading Program—Rutgers University**
 - Undergraduate Mentor. Project: Projective Space. Summer 2010.
 - Undergraduate Mentor. Project: The Riemann-Zeta Function. Fall 2008.
 - Undergraduate Mentor. Project: Matrix Lie Groups. Fall 2007.
- **Center for Learning and Undergraduate Education (CLUE)—University of Washington**
 - Training Session for Math Tutors. Instructor. Winter 2006.
 - Math and Physics Tutor. Fall 2005 - Fall 2006.

- Review Sessions for Calculus, Linear Algebra, and Differential Equations. Fall 2005 - Fall 2006.

- **Kelsey Creek Home School—Bellevue, WA**

- Geometry. Instructor. Fall 2006.
- Physics. Instructor. Fall 2006.
- Math Enrichment. Instructor. Fall 2006.
- Science Enrichment. Instructor. Fall 2006.
- Geometry. Instructor. Fall 2005, Spring 2006.
- Logic. Instructor. Fall 2005, Spring 2006.
- Math Analysis. Instructor. Fall 2005, Spring 2006.
- Geometry. Instructor. Fall 2004, Spring 2005.
- Calculus. Instructor. Fall 2004, Spring 2005.
- Geometry. Instructor. Spring 2004.

- **Education Access Network—Seattle, WA**

- Mathematics Curriculum Developer. Spring 2006 - Fall 2006.
- SAT/ACT Math Preparation Workshop. Instructor. Spring 2006 - Summer 2006.

- **Prime Learning Center—Lynnwood, WA**

- Geometry I A. Instructor. 3 sessions. 2005 - 2006.
- Geometry I B. Instructor. 2 sessions. 2005 - Spring 2006.
- Pre-Algebra I A. Instructor. 1 session. 2006.
- Algebra I A. Instructor. 1 session. 2005.

Other Activities

- **DIMACS**

- Graduate Coordinator for the DIMACS REU Program. 2009-2010.
- DIMACS/DIMATIA Prague Group Mentor. 2009-2010.

- **Math Club at UW**

- Member. 2005-2006.
- President. 2005.
- Cofounder. 2005.

References

Chris Woodward
Professor of Mathematics
Rutgers University

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Anne Browning
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University of Washington
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