

Scott Michael Schneider

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Work Experience

Current Employment

WESLEYAN UNIVERSITY

- Van Vleck Visiting Assistant Professor of Mathematics

Past Employment

RUTGERS UNIVERSITY

- Graduate Assistant
- Teaching Assistant
- Graduate Fellow

UNIVERSITY OF WISCONSIN-MADISON

- Math Lab Tutor
- Math Department Grader

Education

Ph.D., Mathematics

RUTGERS UNIVERSITY, 2009

Advised by Simon Thomas.

Thesis title: *Borel superrigidity for actions of low rank lattices.*

B.A., Mathematics

B.A., Philosophy

B.A., History

UNIVERSITY OF WISCONSIN-MADISON, 2003

Graduated with honors in the liberal arts.

Research Interests

Primary area: Borel equivalence relations.

Additional interests: logic; descriptive set theory; classical groups; ergodic theory and orbit equivalence; philosophy and history of the foundations of mathematics.

Papers, Publications

- *The conjugacy problem for the automorphism group of the random graph*, with S. Coskey and P. Ellis. Accepted for publication in the Archive for Mathematical Logic.
- *Borel cardinal invariant properties of countable Borel equivalence relations*, preprint.
- *Countable Borel equivalence relations*, with S. Thomas. To appear in *Appalachian Set Theory* 2006-2010.
- *Ultraproducts of finite alternating groups*, with P. Ellis, S. Hachtman, and S. Thomas. To appear in *Proc. of RIMS Workshop on Combinatorial and Descriptive Set Theory*.
- *Borel superrigidity of $SL_2(\mathcal{O})$ actions*, preprint.
- *Bernoulli actions of low rank lattices and countable Borel equivalence relations*, preprint.

(All papers available at <http://math.rutgers.edu/~scottsch>)

Teaching Experience

Honors

- Graduate Student Teaching Award (Rutgers Math Department)

Fall 2005

Professorships

WESLEYAN UNIVERSITY

- Math 516, Descriptive Set Theory (graduate course) Spring 2011
- Math 243, Mathematical Logic Fall 2010
- Math 121, Calculus 1 Part 1 Fall 2010
- Math 122, Calculus 1 Part 2 Spring 2010
- Math 221, Vectors and Matrices Fall 2009
- Math 121, Calculus 1 Part 1 Fall 2009

Instructorships

RUTGERS UNIVERSITY

- Math 251, Multivariable Calculus Summer 2009
- Math 250, Introduction to Linear Algebra Summer 2008
- Math 250, Introduction to Linear Algebra Summer 2007
- Math 151, Calculus for Mathematical and Physical Sciences Summer 2006
- Math 151, Calculus for Mathematical and Physical Sciences Summer 2005
- Math 250, Introduction to Linear Algebra Summer 2004

Teaching Assistantships

RUTGERS UNIVERSITY

- Math 135, Calculus I Fall 2007
- Math 251, Multivariable Calculus Fall 2006
- Math 115, Precalculus College Mathematics Spring 2006
- Math 251, Multivariable Calculus Fall 2005
- Head TA for Rutgers summer math courses Summer 2005

Mentoring

RUTGERS UNIVERSITY

- Rutgers DIMACS Summer REU Program Summer 2008
Advised an undergraduate student in original research.
- Directed Reading Program Fall 2006
Supervised a reading course in set theory with an undergraduate student.

Tutoring

UNIVERSITY OF WISCONSIN-MADISON

- Worked as a tutor in the Math Lab, a walk-in tutoring center. 2002–2003

PRIVATE

- Advisor to Longfellow Middle School MathCounts club. 1997–1998
- Over 200 hours private tutoring at the college and high school level, in courses from basic algebra to undergraduate analysis and abstract algebra.

Selected Talks

For a special audience

CONNECTICUT LOGIC SEMINAR

- *Borel superrigidity for actions of low rank lattices* October 2009
- *The conjugacy problem for $GL_\infty(q)$* May 2009
- *Cardinal invariant properties of countable Borel equivalence relations* December 2010

2009 JOINT MATHEMATICS MEETINGS

Special Session on Dynamical Systems and Ergodic Theory

- *Bernoulli actions of Property (τ) groups* January 2009

CAL TECH / UCLA LOGIC SEMINAR

- *Bernoulli actions of low rank lattices* March 2009

RUTGERS LOGIC SEMINAR

- *Bernoulli actions of low rank lattices, I, II, and III* Fall 2008
- *Orbit equivalence of measure preserving group actions* Fall 2007
- *Antimodular actions* Spring 2007
- *Property (τ) and strong ergodicity* Spring 2006
- *Measure classification and countable Borel equivalence relations* Fall 2005
- *The Adams-Kechris Theorem* Spring 2005

RUTGERS GRADUATE STUDENT GEOMETRIC GROUP THEORY SEMINAR

- *On the structure of the modular group* January 2009

For a general audience

WESLEYAN MATHEMATICS AND COMPUTER SCIENCE COLLOQUIUM

- *The descriptive set theory of classification problems* Fall 2009

WESLEYAN MATHEMATICS GRADUATE STUDENT SEMINAR

- *Slaying the hydra* Fall 2009

RUTGERS MATHEMATICS GRADUATE STUDENT SEMINAR

- *Some problems in descriptive set theory* Fall 2005
- *Modal logic and provability predicates for PA* Spring 2004

RUTGERS UNDERGRADUATE HONORS SEMINAR

- *Slaying the hydra* Spring 2008

RUTGERS DIMACS SUMMER REU PROGRAM

- *How (not) to give a talk* Summer 2006, 2007, 2008

**Honors
and Awards**

RUTGERS UNIVERSITY

- Graduate Student Teaching Award (Rutgers Math Department) Fall 2005
- Graduate Student Pizza Seminar Award (Rutgers Math Department) Fall 2008
- Graduate Assistantship (four semesters total) 2006–2009
- Henry C. Torrey Fellowship 2003–2005
(Two-year Fellowship for graduate study at Rutgers University)

UNIVERSITY OF WISCONSIN-MADISON

- Mark H. Ingraham Scholarship 2002–2003
- Irma L. Newman Scholarship 2001–2002
- National Merit Scholarship 1998–2000
- Masonic Lodge Scholarship 1998

**Member-
ships**

- American Mathematical Society
- Mathematical Association of America

**Personal
Information**

- I am a United States citizen.
- I have experience using \LaTeX , HTML, Java, and Maple.