

Brett Frankel

Graduate Student in Mathematics
brett.frankel@fulbrightmail.org

EDUCATION

Ph.D. Program in Mathematics
University of Pennsylvania, Philadelphia, PA
Advisor: Ted Chinburg
Oral Exams Passed April 2013
Major Topic: Number Theory
Minor Topic: Model Theory
Sept 2011–

M.A. Mathematics
University of California, Los Angeles, CA
Aug 2010–May 2011

Visiting student
Institute of Mathematics
Eötvös Loránd University, Budapest, Hungary
Sept 2009–May 2010

B.A./M.A. Mathematics
Johns Hopkins University, Baltimore, MD
GPA: 3.89
Mathematics GPA: 3.90
Department and University Honors
Dean's List: Fall 2005–Fall 2007, Fall 2008
Sept 2005–May 2009

Budapest Semesters in Mathematics
St. Olaf College, Budapest, Hungary
Feb 2008–May 2008

HONORS

Selected as Master TA for 2013–2014

Good Teaching Award

Algebra, Fall 2013

J. J. Sylvester Award

Presented annually by the Johns Hopkins math department to up to two graduating seniors for outstanding achievement in mathematics.

Fulbright Fellow

Eötvös Loránd University and Budapest Semesters in Mathematics.
Budapest, Hungary. Fall 2009–Spring 2010.

Project Title: *Experiencing Hungarian Mathematics Education from Both Sides of the Classroom.*

Phi Beta Kappa

The Richard A. Macksey Award

Awarded to the graduating senior member of Phi Beta Kappa whose academic career best emulates the wide-ranging intellectual interests of Professor Macksey.

2007 William Lowell Putnam Examination

Member of Johns Hopkins University team. Team Rank: 22
Individual Rank: 367

TEACHING

Summer Math Mentor

Summer 2014

Responsibilities include meeting with and observing instructors, and working with the Center for Teaching and Learning to organize workshops and seminars for first-time teachers.

University of Pennsylvania Math Department

Course Instructor:

Linear Algebra.

Summer 2013

Teaching Assistant:

Algebra (rings and fields).

Fall 2013

Algebra (groups and linear algebra, 2 sections).

Spring 2013

Calculus, Part II (multivariable, 4 sections).

Fall 2012

TA duties include holding weekly recitations and office hours; writing quizzes; and grading homework, quizzes and exams.

UCLA Math Department

Teaching Associate (and Reader*).

Fall 2010

Probability for Life Sciences Students (2 sections).

Fall 2010

Calculus of Several Variables (part 2)*.

Fall 2010

Calculus for Life Science Students (part 2, 2 sections).

Winter 2011

Linear Algebra Applications (2 sections).

Winter 2011

Probability for Life Sciences Students (4 sections).

Spring 2011

TA duties include grading exams and holding weekly recitation sessions and office hours.

Reader duties involve grading homeworks and quizzes.

Johns Hopkins University Math Department

Teaching Assistant.

Calculus I for the Biological and Social Sciences.

Fall 2007

Calculus II for Engineering and Physical Sciences (2 sections).

Fall 2008

Linear Algebra.

Spring 2009

TA duties included grading exams and homework, holding review sessions and weekly recitation sessions, and staffing the “math help room.”

Princeton Review

7/06-12/07

SAT and GRE instructor. Improved student test scores by as much as 300 points.

TALKS

How Many Monochromatic Triangles Might There Be in a 2-Edge-Colored K_n ?: A Probabilistic Approach to a Combinatorial Problem.

AMS Special Session on Combinatorics. San Diego, CA. January 5, 2008.

Quadratic Forms and Topographs.

Colloquium Lecture, Budapest Semesters in Mathematics. Budapest, Hungary. December 3, 2009.

Graduate Pizza Seminar, University of Pennsylvania. Philadelphia, PA. September 30, 2011.

Penn Undergraduate Math Society, University of Pennsylvania. Philadelphia, PA. February 20, 2014.

The Product Formula and its Converse.

Graduate Pizza Seminar, University of Pennsylvania. Philadelphia, PA. September 20, 2013.

Riemann to Grothendieck: One Hundred Years of Monodromy

Graduate Pizza Seminar, University of Pennsylvania. Philadelphia, PA. February 28, 2014.

An Introduction to Almost Mathematics

Part I: Galois Seminar, University of Pennsylvania. Philadelphia, PA.

Part II: Algebra Seminar, University of Pennsylvania. Philadelphia, PA.

April 18 & 21, 2014.