

Norman Lewis Perlmutter

Dept. of Mathematical Sciences, SE 234 nperlmutter@fau.edu (until May 6, 2014)
Florida Atlantic University Norman314@gmail.com (permanently)
777 Glades Road http://boolesrings.org/perlmutter
Boca Raton, FL 33431

Current academic affiliation

Visiting Assistant Professor, Florida Atlantic University

Education

Ph.D. in mathematics, May 2013, advisor: Joel David Hamkins, CUNY Graduate Center
M. Phil. in mathematics, Sept. 2012, CUNY Graduate Center
M.A. in mathematics, Feb. 2011, CUNY Graduate Center
B.A. in mathematics *with honors*, May 2007, Grinnell College

Publications

1. Robert Lubarsky and Norman Lewis Perlmutter. Elementary epimorphisms between weak models of set theory. pages 1 – 5, in preparation.
2. Norman Lewis Perlmutter. Inverse limits of elementary embeddings of models of set theory. pages 1 – 30, in preparation.
3. Norman Lewis Perlmutter. The large cardinals between supercompact and almost-huge. To appear in the *Archive for Mathematical Logic*, 33 pages.
4. Norman Lewis Perlmutter. *Inverse limits of models of set theory and the large cardinal hierarchy near a high-jump cardinal*. Ph.D. dissertation, CUNY Graduate Center, Department of Mathematics, April 2013, pages 1 – 168.
5. Joel David Hamkins, Greg Kirmayer, and Norman Lewis Perlmutter. Generalizations of the Kunen inconsistency. *Annals of Pure and Applied Logic*, 163(12):1872 – 1890, December 2012.

Teaching experience

Visiting Assistant Professor, Florida Atlantic University, two semesters, 2013 – 2014

I am teaching two sections of Calculus 2 in the Fall semester. In the Spring semester, I will teach two sections of Math for Liberal Arts 1. I am also teaching an informal year-long graduate seminar in set theory. I am the instructor of record for each undergraduate section.

CUNY Writing Fellow, New York City College of Technology, two semesters, 2011 – 2012

I designed and led workshops on writing-related topics. I designed writing-intensive math exercises.

Graduate Teaching Fellow, City College of New York, six semesters, 2008 – 2011

I taught nine sections of Calculus 1, Precalculus, and College Algebra. I was the instructor of record for each section.

Tutor, grader, faculty teaching reviewer, Grinnell College, Grinnell, IA, 2005 – 2007

Fellowships, scholarships, and awards

Dissertation Year Fellowship, \$22,000 plus tuition, CUNY Graduate Center, 2012 – 2013

Enhanced Chancellors Fellowship, \$18,000 per year plus tuition, CUNY Graduate Center, 2007 – 2012

Research Assistantship, \$3500 per year, CUNY Graduate Center, 2009 – 2011

Doctoral Student Research Grant, \$1150, CUNY Graduate Center, 2011

Trustee Honor Scholarship, \$15,000 per year, Grinnell College, 2003 – 2007

Conference and Colloquium Presentations

Mathematical Sciences Colloquium, Florida Atlantic University, Boca Raton, FL, October 2013

Models of set theory

Young Set Theory Workshop 2012, CIRM, Marseille, France, May 2012

Inverse limits and iterated Prikry forcing (discussion session)

Young Set Theory is the largest international conference for young researchers in set theory.

Mathematics and Computer Science Colloquium, Colby College, December 2011

Different sizes of infinity and large cardinals

Invited talk, awarded overnight accommodation

Young Set Theory Workshop 2011, Königswinter, Germany, March 2011

Generalizations of the Kunen inconsistency (discussion session)

New York Graduate Student Logic Conference, CUNY Graduate Center, May 2010

Generalizations of the Kunen inconsistency

Seminar presentations

Seminar in large cardinals, Florida Atlantic University, Boca Raton, Florida, 2013-2014

I presented twice each week in the fall, and I will present once each week in the spring.

Seminar presentations at the CUNY Graduate Center

Dissertation defense

Set Theory Seminar 5/2013

Woodin for supercompactness and Vopenka Cardinals

Set Theory Seminar 9/2012

Using iterated Prikry forcing to construct an inverse limit

Set Theory Seminar 2/2012

that is a proper subclass of the thread class

Iterated Prikry forcing

Set Theory Seminar 2/2012

Inverse limits of elementary embeddings and models of set theory

Set Theory Seminar 10/2011

Stationary partitions in HOD and Reinhardt cardinals without AC

Set Theory Seminar 3/2011

An improvement on Solovay's theorem and elementary embeddings involving HOD

Set Theory Seminar 10/2010

Generalizations of the Kunen inconsistency (oral examination)

Set Theory Seminar 1/2010

Generic extensions by complete subalgebras, part 2

Student Logic Seminar 12/2009

Generic extensions by complete subalgebras, part 1

Student Logic Seminar 10/2009

Kunen's theorem

Student Logic Seminar 10/2009

Untitled

Student Logic Seminar 10/2009

The consistency of Martin's axiom without the continuum hypothesis

Set Theory Seminar 10/2009

Consistency of the failure of the axiom of choice

Student Logic Seminar 9/2009

An exposition of Solovay's theorem

Set Theory Seminar 10/2008

Other work experience

Actuarial Intern, AXA Equitable, New York, NY, ten weeks, 2006

Developed computer simulations and presentations on life insurance, passed first actuarial exam

Computer Specialist, Time Service, Toledo, OH, during school breaks, 2004 – 2005

Programmed MS Excel spreadsheets and macros to record and graph accounting data

Service

I am a founder and organizer of the Florida Atlantic University Go Club (for the board game go), which meets weekly in the math department. I am contributing problems for the Mu Alpha Theta Mathematics Competition, a competition for Florida high school students.

Skills

I have used the MyMathLab software package for teaching internet-based classes. I have some experience programming in several computer languages, including C++, Java, Scheme, Python, Visual Basic, and TADS.