

**Contact
information:**

Mailing Address:

Department of Mathematics
University of California, Riverside
Riverside, CA 92521-0135
USA

Office phone: 951-827-3118

Education:

University of Chicago (Chicago, IL, USA).
Ph.D. in Mathematics, September 2004-August 2009.

University of Michigan (Ann Arbor, MI, USA).
Ph.D. student in Math. September 2003-May 2004.

Universidad de los Andes (Bogotá, Colombia).
M.Sc. in Mathematics, September 2000-December 2002.

Universidad de los Andes (Bogotá, Colombia).
B.S. with Honors, Major: Mathematics. Minor: Computer engineering. September
1996-June 2000.

**Reserach
Interests:**

Representation theory, Algebraic Geometry, Combinatorics.

**Publications and
preprints:**

On the variety of almost commuting nilpotent matrices. arXiv:0903.2032v1.

A counterexample to the existence of a Poisson structure on a twisted group algebra,
arXiv:math.QA/0608099.

A basis for the non-crossing partition lattice top homology, Journal of Algebraic Com-
binatorics, Volume 23, Issue 3, May 2006, Pages 231 - 242.

Talks:

A Counterexample to the Existence of a Poisson Structure on a Twisted Group Algebra.
Representation Theory and related topics Seminar. Northeastern University. October
17, 2008.

Almost commuting nilpotent matrices and Hilbert schemes. Geometry-Algebra-Singularities-
Combinatorics Seminar. Northeastern University. October 15, 2008.

Eliana M. Zoque López

A Counterexample to the Existence of a Poisson Structure on a Twisted Group Algebra. XVII Coloquio Latinoamericano de Algebra. Medellín, Colombia. July 23, 2007.

Manin's homomorphism for elliptic curves, Stability Theory Seminar, Universidad de los Andes, Bogotá, Colombia, 2003.

Algebraic Geometry and its applications in Model theory, Mathematical Graduate Seminar, Universidad de los Andes, Bogotá, Colombia, 2001.

A basis for the non-crossing partition lattice top homology, Mathematical Graduate Seminar, Universidad de los Andes, Bogotá, Colombia, 2000.

**Teaching
Experience:**

Visiting Assistant Professor University of California, Riverside
Fall 2009–Spring 2010

Fall Quarter, 2009: First-year Calculus-2, Introduction to College Math for Sciences.
Winter Quarter, 2010: First-year Calculus-3, Calculus for Business.
Spring Quarter, 2010: Calculus: Several Variables-1, Calculus for Business.

Lecturer University of Chicago
Autumn 2005–Summer 2009

Summer Quarter, 2009: Calculus-1.
Spring Quarter, 2009: Mathematical Methods for the Social Sciences-1.
Winter Quarter, 2009: Calculus-3.
Autumn Quarter, 2008: Calculus-2.
Spring Quarter, 2008: Calculus-1.
Winter Quarter, 2008: Calculus-2.
Autumn Quarter, 2007: Calculus-3.
Spring Quarter, 2007: Mathematical Methods for the Social Sciences-2.
Winter Quarter, 2007: Mathematical Methods for the Social Sciences-1.
Autumn Quarter, 2006: Calculus-3.
Spring Quarter, 2006: Elementary functions and Calculus-1.
Winter Quarter, 2005: Elementary functions and Calculus-2.
Autumn Quarter, 2005: Elementary functions and Calculus-3.

College Fellow University of Chicago
Autumn 2004–Spring 2005

Spring Quarter, 2005: Basic Complex Variables.
Winter Quarter, 2005: Honors Calculus-2.
Autumn Quarter, 2004: Logic.

Eliana M. Zoque López

Graduate Student Instructor

University of Michigan

Fall 2003-Winter 2004

Winter Term, 2004: Calculus 1.

Fall Term, 2003: Data, Functions and Graphs.

Lecturer

Universidad de los Andes

First Semester 2003

First Semester 2003: Numerical Analysis.

Graduate Teaching Assistant

Universidad de los Andes

Second Semester 2000 - Second Semester
2003

Second Semester, 2002: Linear Algebra.

First Semester, 2002: Integral Calculus.

First Semester, 2002: Numerical Analysis.

Second Semester, 2001: Numerical Analysis.

First Semester, 2001: Linear Algebra.

First Semester, 2001: Numerical Analysis.

Second Semester, 2000: Linear Algebra.

Second Semester, 2000: Numerical Analysis.

Apprentice Instructor

Universidad de los Andes

Second Semester 1999 - First Semester
2000

First Semester, 2000: Differential Calculus.

Second Semester, 1999: Linear Algebra.

**Professional
Experience:**

Coordination Director

Colombian Mathematical Olympiad

XX Iberoamerican Mathematical
Olympiad, Cartagena de Indias, Colombia

September, 2005

Directed the grading team.

International Adviser

Colombian Mathematical Olympiad

Eliana M. Zoque López

VI Centroamerican Mathematical
Olympiad, Managua, Nicaragua

July, 2004

Member of the Advisory Committee to prepare the test.

Research Assistant

Universidad de los Andes

Second Semester, 2002

Model Theory and Algebraic geometry.

Team Leader

Colombian Mathematical Olympiad

XVII Iberoamerican Mathematical
Olympiad, San Salvador, El Salvador

September 2002

Member of the Internatiolnal Jury, preparing and grading the test.

Team Leader

Colombian Mathematical Olympiad

IV Centroamerican Mathematical
Olympiad, Mérida, Mexico

July 2002

Member of the Internatiolnal Jury, preparing and grading the test.

Team Leader

Colombian Mathematical Olympiad

XVI Iberoamerican Mathematical
Olympiad, Minas, Uruguay

September 2001

Member of the Internatiolnal Jury, preparing and grading the test.

**Honors and
Awards:**

B.S. with Honors: Universidad de los Andes(Bogotá, Colombia).

Fellowship: Beca Cuarenta años, Universidad de los Andes, 1996-2000.

Fellowship: Beca de excelencia, Universidad de los Andes, Second semester 1998, First semester 1999.

Gold Medal: II Iberoamerican Mathematical Olympiad for University Students, 1999.

Silver Medal: I Iberoamerican Mathematical Olympiad for University Students, 1998.

Silver Medal: XXXVII International Mathematical Olympiad, Mumbai, India, 1996.

Bronze Medal: XXXVI International Mathematical Olympiad, Toronto, Canada, 1995.

Bronze Medal: XXXV International Mathematical Olympiad, Hong Kong, 1994.

Gold Medal: XI Iberoamerican Mathematical Olympiad, San Jose, Costa Rica, 1996.

Bronze Medal: VIII Iberoamerican Mathematical Olympiad, Mexico City, Mexico, 1993

Gold Medal: Asian Pacific Mathematical Olympiad, 1996.

Bronze Medal: Asian Pacific Mathematical Olympiad, 1995.

Silver Medal: Asian Pacific Mathemtical Olympiad, 1994.