

# Daniele Rosso

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CONTACT INFORMATION	Department of Mathematics The University of Chicago 5734 S. University Avenue Chicago, Illinois 60637	<i>Phone:</i> (773) 603-8519 <i>E-mail:</i> d_rosso@math.uchicago.edu
CITIZENSHIP	Italian	
RESEARCH INTERESTS	Algebra, Representation Theory, Combinatorics	
EDUCATION	<b>The University of Chicago</b> , Chicago, IL USA Ph. D, Mathematics, June 2012 (expected) M.S., Mathematics, December 2008  <b>Università di Bologna</b> , Bologna, Italy Laurea Specialistica (M.S.), Mathematics, July 2007 <ul style="list-style-type: none"><li>• Graduated Cum Laude</li><li>• Spent one year as an ERASMUS exchange student at Université Paris 7 - Denis Diderot, Paris, France</li></ul> Laurea Triennale (B.S.), Mathematics, October 2005 <ul style="list-style-type: none"><li>• Graduated Cum Laude</li></ul>	
AWARDS	<b>The University of Chicago</b> <ul style="list-style-type: none"><li>• Doolittle-Harrison Fellowship, October 2011</li><li>• Lawrence and Josephine Graves Teaching Prize, 2011</li><li>• Wayne C. Booth Graduate Student Prize for Excellence in Teaching, 2010</li></ul> <b>The University of Chicago</b> , Department of Mathematics <ul style="list-style-type: none"><li>• McCormick Fellowship, 2007-2009</li><li>• University Fellowship, 2007-2008</li></ul> <b>Istituto Nazionale di Alta Matematica</b> , Rome, Italy <ul style="list-style-type: none"><li>• INdAM Scholarship for enrolling undergraduates, 2002-2005</li></ul>	
ACADEMIC EXPERIENCE	<b>The University of Chicago</b> , Chicago, IL USA <i>Graduate Student</i> <ul style="list-style-type: none"><li>• Mathematics Assistantship Includes current Ph. D research and course work. Ph. D Advisor: Victor Ginzburg.</li></ul> <i>Lecturer</i> <ul style="list-style-type: none"><li>• Math 131 “Elementary Functions and Calculus 1”, Autumn 2009</li><li>• Math 132 “Elementary Functions and Calculus 2”, Winter 2010</li><li>• Math 133 “Elementary Functions and Calculus 3”, Spring 2010</li><li>• Math 161 “Honors Calculus 1” (IBL method), Autumn 2010</li><li>• Math 162 “Honors Calculus 2” (IBL method), Winter 2011</li><li>• Math 163 “Honors Calculus 3” (IBL method), Spring 2011</li><li>• Math 153 “Calculus 3”, Autumn 2011</li></ul> <i>Directed Reading Program Committee Member</i>	<b>September 2007 to present</b>  <b>September 2009 to present</b>  <b>January 2011 to present</b>

- Organized and ran the program together with other graduate students.

*Research Experience for Undergraduates Mentor*

**June to August 2010**

- Teaching Assistant for “Linear Algebra and Combinatorics”. Instructor: László Babai.
- Mentored independent reading and research projects for a group of undergraduate students.

*Directed Reading Program Mentor*

**September 2008 to June 2010**

- Mentored independent reading projects for undergraduates with mutual mathematical interests.
- “Gröbner Bases”, Autumn 2008
- “Algebraic Number Theory”, Winter 2009
- “Linear Algebra”, Spring 2009
- “Elementary Number Theory”, Autumn 2009
- “Young Tableaux”, Winter 2010
- “Compact Lie Groups”, Spring 2010

*College Fellow Course Assistant*

**September 2008 to June 2009**

- Math 199 “Introduction to Analysis and Linear Algebra”, Autumn 2008  
Instructor: Dubi Kelmer.
- Math 262 “Point-Set Topology”, Winter 2009  
Instructor: Tathagata Basak.
- Math 256 “Basic Algebra 3”, Spring 2009  
Instructor: Vignik Angeltveit.
- Duties included attending classes, grading assignments, helping designing and grading midterms and final exams.
- Held weekly problem sessions and office hours.
- Gave several lectures throughout the year.

INVITED TALKS

- Lie Groups and Representation Theory Seminar, University of Maryland, November 2011
- Lie Groups Quantum Mathematics Seminar, Rutgers University, November 2011
- Combinatorics Seminar, University of Michigan, Ann Arbor, November 2011
- Representation Theory, Geometry and Combinatorics Joint Seminar, University of California, Berkeley, October 2011
- Special Session on Reductive Groups and Hecke Algebras, AMS 2011 Fall Western Section Meeting, University of Utah, Salt Lake City, October 2011
- Lie Theory Seminars, University of Notre Dame, October 2011
- Geometry/Physics Seminar, Northwestern University, October 2011
- Workshop on Teaching in the College, The University of Chicago, September 2011
- “Corrispondenza RSK classica e mirabolica per bandiere parziali”, Dipartimento di Matematica, Università di Bologna, September 2010
- Workshop on Teaching in the College, The University of Chicago, September 2010

CONFERENCES

ATTENDED

- AMS 2011 Fall Western Section Meeting, University of Utah, Salt Lake City, October 2011
- New developments in noncommutative algebra and its applications, Sabhal Mòr Ostaig, Isle of Skye, Scotland, June-July 2011
- Mathematical Aspects of Quantization, University of Notre Dame, June 2011
- Representation Theory of Algebraic Groups and Quantum Groups '10, Nagoya University, Nagoya, Japan, August 2010

PREPRINTS AND PUBLICATIONS

- “Classic and mirabolic Robinson-Schensted-Knuth correspondence for partial flags” (to appear in *Canad. J. Math.*) arXiv:1005.4434v2
- “Robinson-Schensted-Knuth correspondence in the geometry of partial flag varieties”, arXiv:1004.3097v2