

# CURRICULUM VITAE

## Ionel POPESCU

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### Addresses

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### Education

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, 2000-2004  
Ph.D. in Pure Mathematics, June 2004  
Thesis title: *Morse Inequalities, a Probabilistic Approach*  
Advisor: Daniel W. Stroock

UNIVERSITY OF BUCHAREST, ROMANIA, 1997-1998  
Master in Mathematics, June 1998.

UNIVERSITY OF BUCHAREST, ROMANIA, 1992-1997  
Bachelor of Science in Mathematics, June 1997.

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### Positions

- Assistant Professor, 2007- present, Georgia Institute of Technology,
- Boas Assistant Professor, 2004 - 2007, Northwestern University,
- Scientific Researcher III, 2006 - present, Institute of Mathematics of Romanian Academy.
- Research Assistant, 1997 - 2006, Institute of Mathematics of Romanian Academy.

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### Fields of Interest

Stochastic Analysis, Functional Analysis, Random Matrices, Free Probability, Differential Geometry.

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### Grants

- European Union - Marie Curie grant (IRG) - *Stochastic Analysis, Mass Transportation and Free Probability*, 2010-2013, €100000
- UEFISCDI - Romanian Young Researchers - *Randomness, Geometric Problems and Functional Inequalities*, 2011-2014, approximately \$300000. This is a team grant I am managing
- UEFISCDI - Exploratory Workshop - *Probability and Related Aspects*, May 2012, Alba Iulia, Romania. I was the co-PI and the co-organizer of the workshop

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### Invited Conference Talks

- 150 years anniversary of University of Bucharest, Aug. 30 - Sept. 1, 2013, Bucharest, Romania
- AMS-RMS, Probability and Other Related Fields, June 27-30 2013, Alba Iulia, Romania
- Stochastic Differential Geometry, May 29-31 2013, Rennes, France
- Heat Kernels, Stochastic Processes and Functional Inequalities, 5-11 May, Oberwolfach Germany,
- The 13th Romanian-Finnish Seminar, June 26-30, 2012, Ploiești, Romania
- Probability and Related Aspects, Alba Iulia, Romania, May 22-26, 2012
- New Trends in Modern Analysis, Probabilistic and Analytic Methods in PDEs and Spectral Theory November 20-24, 2011, Hammamet, Tunisia
- 5th International Conference on Stochastic Analysis and its Applications September 5-9, 2011, Bonn, Germany
- Congress of Romanian Mathematicians, June 29 - July 5, 2011, Brasov, Romania
- Mini Conference on Probability and related fields, May 23-24, 2011, Bucharest, Romania
- Workshop for Young Researchers in Mathematics May 12-13, 2011, Constanta, Romania

- The Fourth Annual Meeting of the European Non Commutative Geometry Network April 25-30, 2011, Bucharest, Romania
- Conference on Random Matrices, June 1-4, 2010, Paris
- Probability & Geometry in High Dimensions, May 17-21, 2010, Paris
- Workshop on Asymptotic Analysis and Stochastic Methods for Heterogeneous Media, June 9-13, 2010, Alba Iulia, Romania
- CMS/AMS Winter Session - Ottawa - December 5-8, 2008
- Infinite Dimensional Probability - Luminy, May 22-27, 2008
- Workshop on Random Matrices, Bonn, January 11-18, 2008
- International Workshop on "Free Probabilities, Operator Spaces and von Neumann Algebras", Sibiu, Romania, June 9-16, 2007
- 6th Operator Algebras International Conference, Bucharest, August 2005
- Joint meeting AMS-DMS-ÖMG, June 13-18, 2005, Mainz, Germany
- AMS Meeting, October 23-24, 2004 at Northwestern University in Evanston, Illinois

### Coloquium Talks

- Colocviul LEA Math-Mode, November 28-29, 2011, Bucharest, Romania
- IMAR, Bucharest, April 2010
- IMAR, Bucharest, July, 2009
- University of Connecticut, February 2007
- McGill University, February 2007
- Georgia Institute of Technology, February 2007
- Notre Dame University, January 2007

### Seminar Talks

- Stochastic Seminar, Bonn University, June 9th, 2013
  - Analysis Seminar, Northwestern University, Dec 9th, 2012
  - Stochastic Seminar, Georgia Tech, September 27th, 2012
  - Probability Seminar, Lehigh Univ, September 20th, 2012
  - Stochastic Seminar, Georgia Tech, April 19th, 2012
  - Probability Seminar, Purdue University, April 3rd 2012
  - Felix Klein Seminar, Notre Dame University, March 1st, 2012
  - Analysis Seminar, Northwestern University, February 20th, 2012
  - Analysis Seminar, Constanta, November 11th 2011
  - Probability Seminar, Toulouse University, May, 2010
  - Probability Seminar, MIT, November 9th, 2009;
  - Free Probability Seminar, Texas AM Oct. 6th, 2009
  - Probability Seminar, Colorado Boulder, Sept. 10th 2009
  - Probability Seminar, MIT, May 5th, 2009
  - Stochastic Seminar, Georgia Tech, October 9, 2008
  - Special Seminar, Toulouse, June 26, 2008
  - Stochastic Seminar, Georgia Tech, September 27, 2007
  - Probability Seminar, Columbia University, February 9, 2007
  - Probability and Statistics Seminar, Institute for Applied Math., University of Bonn, June 11, 2005
  - Analysis and Probability Seminar, Northwestern University, October 18, 2004
  - Analysis and Probability Seminar, Northwestern University, January 29, 2004
  - Analysis Seminar, Northeastern University, Boston, January 12, 2004
  - Analysis Seminar, MIT, November 26, 2003
  - Institut für Angewandte Mathematik, Heidelberg, Spring 1998
  - Operator Algebras Seminar, Institute of Mathematics of Romanian Academy, Series of Lectures on "Free Probability Theory", Fall 1998
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## Invited Visits

- Toulouse University, June 2008, May 2010, Oct 2011
- Analytic and Geometric Aspects of Stochastic Processes, Banff Research Center, April 10 - 15, 2004
- Penn State University, Fall 1999
- Institut für Angewandte Mathematik, Heidelberg, March-May 1998
- "Operator Algebra Workshop", Geneva, September 1997

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## Fellowships and Awards

- Romanian Academy Award for contributions to "Free and Non-Commutative Probability" - 2011
- CURRY fellowship, The Pennsylvania State University, Fall 1999
- TEMPUS fellowship, Heidelberg, Germany, Spring 1998
- First prize in Romanian National Olympiad, 1991

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## Other Professional Activities

Reviewer for:

- Annals of Statistics
- Probability Theory and Related Fields
- Electronic Journal of Probability
- Bernoulli
- Journal of Fourier Analysis and Applications
- Theoretical Journal of Probability
- Extremes
- MathReviews.

Editorial Work:

- The Proceeding of The Fourth Annual Meeting of the European Non Commutative Geometry Network April 25-30, 2011, Bucharest, Romania

Conference Organizer

- Joint International Meeting of the AMS and the Romanian Mathematical Society, June 2013 - special session on Random Matrices and Free Probability
- Probability and Related Aspects, May 22 - 26, 2012, Alba Iulia, Romania
- Mini Conference on Probability and related fields, May 23-24, 2011, Bucharest, Romania

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## Committees:

Georgia Tech: - 2013- Library Committee  
Georgia Tech: - 2007-2008 Colloquium Committee  
- 2008-2009 Graduate Committee

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## Teaching

<i>Georgia Tech:</i>	Fall 2013	- Matt3770 sections D & K	<i>Statistics and Applications</i>
	Spring 2013	- Math1502	<i>Calculus II</i>
		- Math3770	<i>Statistics and Applications</i>
	Fall 2012	- Math4261	<i>Introduction to Mathematical Statistics I</i>
	Spring 2012	- Math4262	<i>Introduction to Mathematical Statistics II</i>
- Math3770E		<i>Statistics and Applications</i>	
<i>IMAR (SNSB):</i>	Fall 2011	- Master course	<i>Random Matrices</i>
	Spring 2010	- Master course	<i>Probability</i>
<i>Georgia Tech:</i>	Fall 2009	- Math7245	<i>Stochastic Processes and Stochastic Calculus II</i>
		- Math3770D	<i>Statistics and Applications</i>
		- Math3770T	<i>Statistics and Applications</i>
	Spring 2009	- Math7244	<i>Stochastic Processes and Stochastic Calculus I</i>
	Fall 2008	- Math6242	<i>Probability II</i>
	Spring 2008	- Math6241	<i>Probability I</i>

	Fall 2007	- Math3770D	<i>Statistics and Applications</i>
<i>Northwestern:</i>	Spring 2007	- Math310-3	<i>Introduction to Probability and Stochastic Processes III</i>
	Winter 2007	- Math310-2	<i>Introduction to Probability and Stochastic Processes II</i>
		- Math220-0	<i>Differential Calculus</i>
	Fall 2006	- Math310-1	<i>Introduction to Probability and Stochastic Processes I</i>
		- Math214-2	<i>Calculus II</i>
	Spring 2005	- Math330-3	<i>Introduction to Probability and Stochastic Processes III</i>
	Winter 2005	- Math330-2	<i>Introduction to Probability and Stochastic Processes II</i>
		- Math214-2	<i>Calculus II</i>
	Fall 2004	- Math214-1	<i>Calculus I</i>
		- Math214-3	<i>Calculus III</i>

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**Graduate and Undergraduate Students Supervised**

SNSB:	2011	Cristian Gavrus	Master Student
Georgia Tech:	2009-2010	Linwei Xin	Ph.D student
MIT:	Summer 2001	two undergraduate students	SPUR (summer program for undergraduate)

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