CURRICULUM VITAE
Ionel POPESCU

Adrese

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Institutul de Matematica al Academiei Romane
21 Calea Grivitei Street, 010702 Bucharest, Romania

Experienta Profesionala

- Conferentiar universitar, Septembrie 2014-prezent, Facultatea de Matematica si Informatica, Universitatea Bucuresti
- Cercetator Stiintific II, Septembrie 2014-prezent, Institutul de Matematica al Academiei Romane
- Assistant Professor, August 2007-2014, Georgia Institute of Technology,
- Scientific Researcher III, August 2006 - August 2014, Institutul de Matematica al Academiei Romane;
- Boas Assistant Professor, Septembrie 2004 - August 2007, Northwestern University,
- Asistent de cercetare, June 1997 - July 2006, Institutul de Matematica al Academiei Romane.

Educatie

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, 2000-2004
    Doctorat, Matematica, Iunie 2004
UNIVERSITATEA DIN BUCURESTI, ROMANIA, 1997-1998
    Master in Mathematica, Iunie 1998.
UNIVERSITATEA DIN BUCURESTI, ROMANIA, 1992-1997
    Licenta in Mathematics, Iunie 1997.

Competente Personale

Domenii de expertiza: analiza stocastica, analiza functionala, matrici aleatoare, geometrie diferentiala, modelarea stocastica in finante, modelare statistica

Limbi cunoscute: romana (materna), engleza (fluent in scris, citit, conversatie), franceza (scris, citit)

Competente de comunicare: Experienta de predare in universitati (in tara si in strainatate). Capacitatea de sintetizare si explicitare a ideilor.

Competente organizationale/manageriale

Manager de proiecte, nationale si internationale, coordonare de echipe asistenti de predare.

Competente dobandite la locul de munca

modelare statistica, modele de matematici financiare, analiza statistica

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Competente informatice

latex, Mathematica, Maple, Matlab, R, SAS, MS Office, linux, mac os x

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Publicatii

- Free Functional Inequalities on the Circle - submitted
- Upper bound for the rate of convergence of a second functional in optimal alignment - cu Raphael Hause and Henry Matzinger - submitted
- Refinements of the One Dimensional Free Poincare Inequality - cu Christian Houdré - *International Mathematics Research Notices* doi:10.1093/imrn/rnu189, published online Oct. 28th 2014
- A refinement of Brascamp-Lieb-Poincare inequality in one dimension - *Comptes Rendus Mathematique* volume **352**, no. 1, January 2014, pp. 55–58
- Shy and Fixed-Distance Coupling on Riemaniann Manifolds - cu Mihai N. Pascu - submitted
- A Stochastic Target Approach to Ricci Flow on Surfaces - cu Robert W. Neel - *Annals of Probability* in press

- Local One Dimensional Free Inequalities - *Journal of Functional Analysis*, volume **264**, no. 6, March 2013, pp.1456–1479
- The One Dimensional Free Poincaré Inequality- cu Michel Ledoux - *Transaction of AMS* volume **365**, 2013, pp. 4811–4849
- Analyticity of Planar Limits of a Matrix Model - cu Stavros Garoufalidis - *Annales Henri Poincaré* volume **14**, no. 3, April 2013, pp. 499–565
- Toeplitz algebras arising from actions of $\mathbb{N}^r$ - cu Iulian Popescu - *Revue Romaine de Mathématique pure et Appliquées* - **55**, no. 3, 2010, pp. 205–240
- Mass Transportation Proofs of Free Functional Inequalities, and Free Poincaré Inequalities - cu Michel Ledoux - *Journal of Functional Analysis* volume **257**, no. 4, 2009, pp. 1175–1221
- General Tridiagonal Random Matrix Models, Limiting Distributions and Fluctuations - *Probability Theory and Related Fields*, volume **144**, issue 1-2, May 2009, pp. 179–220
- Talagrand Inequality for the Semicircular Law and Energy of the Eigenvalues of Beta Ensembles - *Mathematical Research Letters*, volume **14**, issue 6, November 2007, pp. 1023–1032
- Morse Inequalities, a Function Space Integral Approach - *Journal of Functional Analysis* **235**, no. 1, 2006, 1–68,

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Management Proiecte

- European Union - Marie Curie grant (IRG) - *Stochastic Analysis, Mass Transportation and Free Probability*, 2010-2013
- manager de echipa pentru UEFISCDI - Romanian Young Researchers - *Randomness, Geometric Problems and Functional Inequalities*, 2011-2014,
- coorganizator pentru UEFISCDI - Exploratory Workshop - *Probability and Related Aspects*, May 2012, Alba Iulia, Romania.

Invitatii la Conferinte

- New developments in Optimal Transport, Geometry and Analysis, Feb 24th, 2015
- Stochastic Analysis and Applications, Bucharest, Dec. 17th, 2014
- ProbaGeo 2014 at Bordeaux, June 10-12, 2014
- High Dimensional Probability VII, Cargese, May 26-31, 2014
- Sectional AMS meeting, Albuquerque, April 5-6, 2014
- ProbaGeo 2013 at Luxembourg, Oct 28-31, 2013, University of Luxembourg
- 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, Ploieşti, 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
- Analytic and Geometric Aspects of Stochastic Processes, Banff Research Center, April 10 - 15, 2004

Coloquium Talks

- IMAR, Bucharest, July, 2009;
- University of Connecticut, February 2007;
- McGill University, February 2007;
- Georgia Institute of Technology, February 2007;
- Notre Dame University, January 2007.

Expuneri in Seminarii

- Probability Seminar, University of Luxembourg, Feb 12th, 2015
- Research Horizons, Georgia Tech, Oct. 1th, 2014
- Stochastic Seminar, Georgia Tech, Sept. 25th, 2014
- Stochastic Seminar, Georgia Tech, Sept. 5th, 2013
- Geometry Seminar, IMAR, May 20th, 27th and June 3rd, 2013
- 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

Participari la Conferinte si vizite scurte

- Boca Raton, Florida, AMS meeting 29-30 Oct, 2009;
- Toulouse University, June 25-28, 2008;
- DIMACS, Random Matrices Workshop, March 2008;
- "Integrable Systems, Random Matrices and Applications"- conference in honor of Percy Deift's 60th birthday, Courant Institute, May 22-26, 2006,
- "Midwest Probability Conference", Northwestern University, October 2005 and 2006,
- "JDG 2005, the Sixth Conference on Geometry and Topology", Harvard, May 13 - 15, 2005,
- "Analytic and Geometric Aspects of Stochastic Processes", Banff Research Center, April 10 - 15, 2004
- "Current Developments in Mathematics", Harvard, November 21-22, 2003
- Penn State University, Fall 1999,
- "The 17th International Conference on Operator Theory", June 23-26, 1998, Timisoara, Romania,
- Institut für Angewandte Mathematik, Heidelberg, March-May 1998,
- "Operator Algebra Workshop", Geneva, September 1997,

Premii si Burse

- 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 place in Romanian National Olympiad, 1991

Alte activitati profesionale

Raportor si evaluator pentru: Annals of Statistics, Bernoulli, Electronic Journal of Probability, Extremes, Journal of Fourier Analysis and Applications, Journal of Operator Theory, Potential Analysis, Probability Theory and Related Fields, Theoretical Journal of Probability, MathReviews.

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

Organizator conferinte:
- 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