Curriculum Vitae – Lucian Beznea

Ocupatia, pozitia actuala:

• *Institutului de Matematica "Simion Stoilow" al Academiei Romane, Bucuresti*: aprilie 2012 - prezent: director; octombrie 2004 - martie 2012: director adjunct; decembrie 2000: cercetator principal gr. I
• *Facultatea de Matematica si Informatica a Universitatii din Bucuresti:* profesor universitar, din octombrie 2012

Sectorul de activitate: cercetare si invatamantul superior

Educatie si formare: martie 1990: titlul de doctor in matematici la Universitatea din Bucuresti, conducator stiintific: Prof. Dr. Doc. Nicu Boboc • 1977-1982 Facultatea de Matematica a Universitatii din Bucuresti

Conducator de doctorat: din iunie 2004, sase teze sustinute, trei doctoranzi in prezent.

Competente manageriale:
• Coordonator al *Centre Francophone en Mathematique de Bucarest,* 2017-2020, http://imar.ro/CFM/ (buget anual de 50 000 euro) ;
• Co-director (impreuna cu Michael Roeckner) al unui proiect de colaborare stiintifica Institutul de Matematica ``S. Stoilow" al Academiei Romane si University of Bielefeld, Germania, (*Potential theory and Stochastics*, 2004-2007), finantat de DFG si Academia Romana;
• Responsabil al "*Potential Theory Task*" din proiectul EURROMMAT finantat de European Commission (in cadrul FP5), contract No. ICA1-CT-2000-70022 (the Call for Centres of Excellence from 1999).

Experienta acumulata in programe nationale: Am condus in calitate de director de proiect mai multe contracte nationale de cercetare matematica din progamele CERES, CEEX si PN-II, obtinute in urma uneor competitii nationale si finantate de Ministerul Educatiei si Cercetarii • Am fost si sunt responsabil la mai multe granturi (ale Academiei Romane, CNCSIS si ANSTI), castigate in urma unor competitii nationale.

• Membru al Comitetului de Program al *Joint International Meeting of the American Math. Soc. and Romanian Math. Soc.*, iunie 2013, Alba Iulia;
• Co-organizator al ultimelor patru editii ale *Congresului Matematicienilor Romani* (Pitesti 2003, Bucuresti 2007, Brasov 2011 si Iasi 2015), manifestari stiintifice cu mai mult de 350 de participanti din peste 20 de tari.

Distinctii: Premiul "Simion Stoilow" al Academiei Romane pe 2004.

Membru in societati stiintifice: European Mathematical Society, Societatea de Stiinte Matematicie din Romania

Co-editor sef din iunie 2017 (impreuna cu M. Putinar) al revistelor *Mathematical Reports* si *Revue Roumaine Math. Pures Appl.,* editate de Academia Romana.

Membru al:
• comisiei "Support of East European Mathematicians" a European Mathematical Society 2011-2014; European Solidarity, 2015-2018;
• comitetului de experti al " Laboratoire Europen Associe" (LEA); Laborator European Asociat la CNRS, 2008-2015;
• comitetului director al Societatii de Stiinte Matematice din Romania (2012-2017);
• comitetelor editoriale ale urmatoarelor reviste: Proc. of the Romanian Academy, Mathematical Reports, Revue Roumaine Math. Pures Appl., Ann. Univ. Bucharest, Advances in Pure and Applied Mathematics (De Gruyter)**.**

Colaborari internationale: Vizite in strainatate (mai lungi de o luna): Colaborator stiintific la Lehrstuhl fuer Mathematik– Analysis, Katholische Universitaet Eichstaett, Germania: trei luni in 1991, cinci luni in 1992, noua luni in 1993, doua luni in 1994 și o luna in 1995 • Vizita stiintifica la Univ. Eichstaett, Germany, doua luni (noiembrie-decembrie 1995), cu o bursa acordata de Doenhoff-Stiftung • Vizita de o luna la Univ. Eichstaett cu o bursa a Stiftung-Katholische Universitaet, ianuarie 2006 • Vizite la Univ. din Bonn, Institut fuer Angewandte Mathematik, cu o burse DAAD, in 1998 (doua luni) si 2003 (doua luni) • Vizita stiintifica de o luna la Universitatea din Bielefeld, Germania, 2003 • Vizite de cercetare la Univ. din Bielefeld, Germania, de trei luni in 2004, trei luni in 2005, doua luni in 2006, doua luni in 2007, sase saptamani in 2008 si cinci saptamani in 2009, in cadrul unui proiect de cooperare DFG- Academia Romana, in teoria potentialului si procese stocastice • Vizita de cercetare de o luna la Univ. din Toulouse (Laboratoire de Probabilites et Statistique), Franta, 2007 • Vizita de o luna la Univ. din Bielefeld, Germania, ianuarie-februarie 2010 (mini-curs la școala doctoralaˇ "International Graduate College") • Vizita de cercetare de o luna la Univ. din Bielefeld, Germania, octombrie 2010 • Vizita de cercetare de o luna (invited professor) la Univ. Paris-Sud (Equipe Probabilites et Statistiques), Orsay, noiembrie 2011 • Vizite de cercetare la Univ. din Bielefeld, Germania: doua luni in 2013, sase saptamani in 2014, o luna si trei saptamani in 2015 • Univ. de Lorraine, Nancy, Franta, 2014 (o luna).

Monografii publicate: L. Beznea and N. Boboc: *Potential Theory and Right Processes*. (Mathematics and Its Applications, vol. 572), Kluwer Academic Publishers/Springer 2004, 376 p.

Publicatii stiintifice: mai mult de 60 de articole publicate. Prezentam o selectie (ultimii 7 ani, pentru lista completa vezi http://imar.ro/organization/people/PUBs/beznea-publications-web-IMAR17.pdf):
L. Beznea, I. Cimpean and M. Rˇockner: Irreducible recurrence, ergodicity, and extremality of invariant measures for resolvents. *Stochastic Processes and their Applications* (2017), http://dx.doi.org/10.1016/j.spa.2017.07.009 • L. Beznea and I. Cimpean: Quasimartingales associated to Markov processes. *Trans. Amer. Math. Soc*. (2017), to appear • L. Beznea and S. Vladoiu: Markov processes on the Lipschitz boundary for the Neumann and Robin problems. *J. Math. Anal. Appl.* **455** (2017), 292-311• L. Beznea, M. Deaconu, and O. Lupascu: Stochastic equation of fragmentation and branching processes related to avalanches. *J. of Statistical Physics* **162** (2016), 824-841• L. Beznea and O. Lupascu: Measure-valued discrete branching Markov processes. *Trans. Amer. Math. Soc.* **368** (2016), 5153-5176 • L. Beznea, M.N. Pascu, and N.R. Pascu: An equivalence between the Dirichlet and the Neumann problem for the Laplace operator. *Potential Analysis* **44** (2016), 655-672 • V. Barbu and L. Beznea: Measure-valued branching processes associated with Neumann nonlinear semiflows. *J. Math. Anal. Appl.* **441** (2016), 167-182 • L. Beznea, M. Deaconu, and O. Lupascu: Branching processes for the fragmentation equation. *Stochastic Processes and their Applications* **125** (2015), 1861–1885. • L. Beznea and M. Roˇckner: On the existence of the dual right Markov process and applications. *Potential Analysis* **42** (2015), 617-627.• L. Beznea and I. Cimpean: On Bochner-Kolmogorov Theorem. In: *Seminaire de Probabilites XLVI* (Lecture Notes in Mathematics, Vol. 2123), Springer 2014, pp. 61–70. • L. Beznea and A.-G. Oprina: Bounded and Lp-weak solutions for nonlinear equations of measure-valued branching processes. *Nonlinear Analysis: Theory, Methods & Applications* **107** (2014), 34–46. • L. Beznea, O. Lupascu, and A.-G. Oprina: A unifying construction for measure-valued continuous and discrete branching processes. In *Complex Analysis and Potential Theory*, CRM Proceedings and Lecture Notes, vol. **55**, Amer. Math. Soc., Providence, RI, 2012, pp. 47-59. • L. Beznea: The stochastic solution of the Dirichlet problem and controlled convergence. *Lecture Notes of Seminario Interdisciplinare di*

Matematica **10** (2011), 115-136.• L. Beznea and M. R̈ockner: From resolvents to ca`dl`ag processes through compact ex- cessive functions and applications to singular SDE on Hilbert spaces. *Bull. Sci. Math*. **135** (2011), 844-870. • L. Beznea, A. Cornea, and M. R̈ockner: Potential theory of infinite dimensional Ĺevy processes. *J. of Functional Analysis* **261** (2011), 2845–2876. • L. Beznea and G. Trutnau: On the quasi-regularity of non-sectorial Dirichlet forms by processes having the same polar sets. *J. Math. Anal. Appl.* **384** (2011), 33-48. • L. Beznea and A.-G. Oprina: Nonlinear PDEs and measure-valued branching type processes. *J. Math. Anal. Appl.* **384** (2011), 16-32. • L. Beznea: Potential theoretical methods in the construction of measure-valued Markov branching processes. *J. European Math. Soc.* **13** (2011), 685-707. • L. Beznea and M. R̈ockner: Applications of compact superharmonic functions: path regularity and tightness of capacities. *Complex Anal. and Operator Th.* **5** (2011), 731-741.

Conferinte tinute la invitatia unor universitati/ institute de cercetare din strainatate: Univ. of Erlangen, Germania, in Seminar on Stochastic Analysis, rected by Heinz Bauer, febr. 1995 • Institute of Math. and Informatics, Vilnius, Lithuania, in Seminar on Stochastic Processes, directed by B. Grigelionis, august 1995 • Univ. of Eichstaett, Germania, mai 1998, oct. 1998 • Univ. of Prague, Rep. Ceha, Seminar on Analysis, oct. 1999 • Technical Univ. Liberec, Rep. Ceha, oct. 1999 • Univ. of Eichstaett, Germania, Mathematisches Kolloquium, iulie 2002, nov. 2003, nov. 1999, dec. 2007 • Univ. Paris VI, Franta, Seminaire de Th. du Potentiel, nov. 1999 • Univ. of Bonn, Germania, Sem. on Stochastics, iunie 2000 • Univ. Paris VI, France, Sem. de Th. du Potentiel, ian. 2002 • Univ. of Bonn, Germania, in Oberseminar Stokastik, October 2002 • Univ. of Bielefeld, Germania, nov. 2002, iulie 2003, dec. 2004, august 2010 • Univ. Frankfurt, Germania, in AG Differentialgleichungen, nov. 2002, iulie 3003, iulie 2004 • Univ. Paris VI, Franta, Sem. de Th. du Potentiel, dec. 2003 • Univ. of Toulouse, Franta, iunie 2004 • Univ. de Savoie, Chambery, Franta, sept. 2005 • Swansea Univ., Marea Britanie, iulie 2008 • Univ. d'Evry Val d'Essonne, Franta, dec. 2008 • Purdue Univ., West Lafayette, USA, sept. 2009 ̦si sept. 2011 • Worcester Polytechnic Inst., Worcester, USA, sept. 2009 ̦si sept. 2011 • Invited Professor la IPEIT (Univ. of Tunis), Tunisia, febr. 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010 ̦si aprilie 2014 • Sem. on Th. of Markov Semigroups and Schroedinger Operators, Wroclaw Univ. of Technology, Polonia, iulie 2010 • Seoul National Univ., Coreea de Sud, aprilie 2011 • Univ. of Oxford, Marea Britanie, oct. 2011 • Imperial College, London, Marea Britanie, oct. 2011 • Univ. Paris-Sud, Orsay, Franta, nov. 2011. • INRIA Nancy, Franta, aprilie 2012 • Univ. Paris-Nord, Franta, nov. 2013 • Univ. of Goeteborg, Suedia, mai 2014 • Univ. of California at San Diego, USA, sept. 2009, sept. 2011, mai 2015 • Basque Center for Applied Mathematics (BCAM), Bilbao, Spania, iulie 2012, mai 2017.

Conferinte internationale la care am participat, sustinand conferinte invitate (mai mult de 15 in ultimii 7 ani), in urmatoarele tari: Coreea de Sud (2011 si 2014), Germania (2011, 2014, 2016 si 2017), Tunisia (2011), SUA (2015), Romania (2013 si 2016), Polonia (2017), Turcia (2017).