

CURRICULUM VITAE

1. **Name:** KRISTÁLY Alexandru
2. **Birth of date:** 22 March 1975
3. **Citizenships:** Romanian, Hungarian
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5. **Studies**
 1. *PhD*, Babeş-Bolyai University, Faculty of Mathematics and Informatics, Cluj-Napoca, 1998-2003. Title of dissertation: Critical and equilibrium points for set-valued maps. Scientific advisor: dr. Wolfgang W. Breckner;
 2. *Master degree*, Babeş-Bolyai University, Faculty of Mathematics and Informatics, Cluj-Napoca, 1997-1998. Title of dissertation: Closed geodesics. Scientific advisor: dr. Csaba Varga;
 3. *Bachelor degree*, Babeş-Bolyai University, Faculty of Mathematics and Informatics, Cluj-Napoca, 1993-1997.
 4. *High School Graduate*, Márton Áron High School, Miercurea-Ciuc, 1989-1993.
6. **Academic positions**
 - *Associate Professor*, Babeş-Bolyai University, Faculty of Economics, Cluj-Napoca, Romania, 2007-present.
 - *Lecturer*, Babeş-Bolyai University, Faculty of Mathematics and Informatics, Cluj-Napoca, Romania, 2003-2007.
 - *Assistant Professor*, Babeş-Bolyai University, Faculty of Mathematics and Informatics, Cluj-Napoca, Romania, 2001-2003.
 - *Junior Assistant Professor*, Babeş-Bolyai University, Faculty of Mathematics and Informatics, Cluj-Napoca, 1998-2000.
7. **Fellowships & visits (selective list)**
 - 7.1. **Postdoctoral fellowships**
 1. **J. Bolyai Research Fellowship**, Hungarian Academy of Sciences, Budapest, Hungary, 2009-2012 (in progress).
 2. **Junior Research Fellowship**, Central European University, Special and Extension Programs, Budapest, Hungary, 3 months (01 November 2005 – 31 January 2006).
 3. **Domus Hungarica**, Hungarian Academy of Sciences, University of Debrecen, Debrecen, Hungary, 3 months in 2005 and 2006.
 4. **Young Researcher**, Geometrical Analysis, EU Research Training Network PRN-CT-999-00118/2000-2004, Institute of Mathematics of the Polish Academy of Sciences, Warsaw, Poland, 4 months (1 June – 31 August 2003, and 20 January – 20 February 2004).
 - 7.2. **Visits to prestigious institutions**
 1. Institut des Hautes Etudes Scientifiques (IHES), Bures-sur-Yvette, France, 15 March-15 April 2011.
 2. Professori visitatori, Istituto Nazionale di Alta Matematica (INDAM), Università di Catania, Catania, Italy. 01 June 2005 – 30 July 2005, 01-15 September 2009, 08-22 January 2011.
 3. Mathematisches Institute, Universität Bern, 01-15 December 2011, 01-15 May 2011, 15 November - 31 December 2011.
 4. Centro di Ricerca Matematica Ennio De Giorgi, Scuola Normale Superiore, Pisa, 13-23 February 2005.

8. Awards

1. Award for Scientific Research (Premiul Cercetării Științifice), Babeș-Bolyai University, 2007, 2009, 2011.
2. The papers published in 2007-2012 have been awarded by CNSC/UEFISCDI within the project *Resurse Umane/Premierea rezultatelor cercetării*.

9. Conferences & talks (selective list)

1. Winter School on Abstract Analysis, Lhota nad Rohanovem, Czech Republic, 3-10 February, 2001. (Presented: Coerciveness property for a class of set-valued mappings).
2. International Conference in Nonlinear Differential Equations and Applications (ICNODEA), Cluj-Napoca, 22-27 August, 2004 (Presented: Multiplicity results for an eigenvalue problem for hemivariational inequalities in strip-like domains).
http://www.cs.ubbcluj.ro/www/index.php?module=pagemaster&PAGE_user_op=view_page&PAGE_id=55&MMN_position=46:46
3. University of Messina, Messina, Italy, 12 June, 2005 (Presented: Multiple solutions of certain elliptic problems on unbounded strips).
4. University of Reggio Calabria, Reggio Calabria, Italy, 13 June, 2005 (Presented: Infinitely many homoclinic solutions for an elliptic problem in \mathbb{R}^N).
5. The 22th IFIP TC 7 Conference on System Modelling and Optimization, 18-22 July, 2005, Politecnico di Torino, Italy. (Presented: Infinitely many solutions for a differential inclusion problem in \mathbb{R}^N).
6. *Invited main speaker* at The 5th ISAAC Congress, 25-30 July, 2005, University of Catania, Italy. (Presented: Elliptic eigenvalue problems on unbounded domains involving sublinear terms).
<http://atlas-conferences.com/cgi-bin/abstract/capg-01>
7. Central European University, Budapest, Hungary, 7 December, 2005 (Presented: Multiple solutions of sublinear elliptic problems in \mathbb{R}^N).
8. Central European University, Budapest, Hungary, Mini-workshop: Recent advances in calculus of variations, 30 April – 7 May, 2006. (Presented: One-dimensional scalar field equations involving an oscillatory nonlinear term)
http://web.ceu.hu/math/News&Events/Archives/Archives_2006_2009.html
9. Mini-workshop: New Advances in Applied Mathematics, Central European University, Budapest, 27-28 September 2006. (Presented: Quasilinear elliptic problems with oscillatory nonlinearities).
http://web.ceu.hu/math/News&Events/Archives/Archives_2006_2009.html
10. University of Perpignan, Perpignan, France, 27 March, 2007. (Presented: Sublinear eigenvalue problems on compact Riemannian manifolds).
11. Workshop "Topological and variational methods for differential equations", University of Rouse, Rouse, Bulgaria, 7-11 May, 2007. (Presented: Sublinear eigenvalue problems on compact Riemannian manifolds with applications in Emden-Fowler equations).
12. "International Workshop on Applied Evolution Equations", Central European University, Budapest, Ungaria, 21-25 May, 2007. (Presented: Homoclinic solutions for an elliptic problem in \mathbb{R}^N with oscillatory terms).
http://web.ceu.hu/math/News&Events/Archives/Archives_2006_2009.html
13. Università di Messina, Italy, 26 June 2007. (Presented: Sublinear eigenvalue problems on compact Riemannian manifolds).
14. Università di Catania, Italy, 28 June 2007. (Presented: Asymptotically critical problems on spheres).
15. International Conference in Nonlinear Differential Equations and Applications (ICNODEA), Cluj-Napoca, 3-8 July 2007. (Presented: Elliptic problems in \mathbb{R}^N involving oscillatory nonlinearities).
http://www.cs.ubbcluj.ro/~icnodeacj/icnodea_2007.htm

16. Workshop on "Critical Point Theory and its Applications", Babes-Bolyai University, Cluj-Napoca, 9-14 July, 2007. (Presented: Asymptotically critical problem on higher dimensional spheres).
17. Spring School in Nonlinear Partial Differential Equations, Louvain-la-Neuve, Belgium, 26-30 May, 2008. (Presented: Detection of arbitrarily many solutions for perturbed elliptic problems involving oscillatory terms). <http://www.uclouvain.be/math-spring-school-pde-2008.html>
18. Central European University, Department of Mathematics and its Applications, Budapest, 2 October, 2008. (Presented: Best approximation problems on Finsler-Riemann manifolds). http://web.ceu.hu/math/News&Events/Archives/Archives_2006_2009.html
19. Universita di Messina, Italy, 10 September 2009. (Presented: Arbitrary many solutions for a perturbed problem).
20. Universita di Catania, Italy, 14 September 2009. (Presented: On a new class of elliptic systems with nonlinearities of arbitrary growth).
21. Eotvos Lorand University, Budapest, Hungary, 19 November 2009. (Presented: Metric projections and Nash equilibrium points on manifolds, in Hungarian).
22. The 7th Bolyai-Gauss-Lobachevsky Conference, International Conference on Non-Euclidean Geometry and its Applications, Cluj-Napoca, Romania, 5-9 July 2010. (Presented: Nash-Stampacchia equilibrium points on Riemannian manifolds).
<http://blg.math.ubbcluj.ro/mainp.php?pg=prog>
23. Institute of Mathematics "Simion Stoilow" of the Romanian Academy, Bucharest, Romania, Monthly Seminar Series, 17 November 2010. (Presented: Elliptic problems involving oscillatory nonlinearities).
<http://www.imar.ro/~purice/Inst/Conf-lunara-IMAR.html>
24. University of Bern, Bern, Switzerland. 07 December 2010. (Presented: Nash-type equilibria on Riemannian manifolds: questions and perspectives).
http://www.mathstat.unibe.ch/content/lehrveranstaltungen/master_mathematik/herbstsemester_2010/oberseminar_analysis/index_ger.html
25. Universita di Messina, Messina, Italy, 13 January 2011. (Presented: Multiple solutions for an elliptic equation on the whole space).
26. Universita di Catania, Catania, Italia, 20 January 2011. (Presented: A dimension-depending multiplicity result for the Schrödinger equation).
27. International Conference on Nonlinear Operators, Differential Equations and Applications, 5-8 July 2011. Cluj-Napoca, Romania. (Invited speaker). (Presented: Anisotropic elliptic problems involving asymmetric Minkowski norms).
<http://www.cs.ubbcluj.ro/~icnodeacj/plenary%20speakers.htm>
28. Budapest University of Technology and Economics, Budapest, Hungary, 15 September 2011. (Presented: Symmetrization principles and elliptic problems: isotropic and anisotropic phenomena)
<http://www.renyi.hu/~seminar/szept.html>
29. University of Bern, Bern, Switzerland, 19 December 2011. (Presented: Nash-type equilibria on Riemannian manifolds).
http://www.math-stat.unibe.ch/content/lehrveranstaltungen/master_mathematik/fruehjahrssemester_2012/mathematical_colloquium/index_ger.html
30. Budapest University of Technology and Economics, 30 January-03 February 2012. Intensive mini-cours (in Hungarian): (Presented: Calculus of variations and PDEs).
http://www.math.bme.hu/uploads/meghivo_kristaly_2U.pdf
31. Central European University, Department of Mathematics and its Applications, Budapest, Hungary, 22 June 2012. (Presented: The Schrödinger-Maxwell system involving sublinear terms).
<http://mathematics.ceu.hu/news/2012-06-16/lecture-by-professor-alexandru-kristaly-romania-on-june-22-2012>

10. Editorial activity and Committees

- Member in the Editorial Board of *Studia Universitatis Babeş-Bolyai Mathematica* (2010- present) and *Analele Universităţii din Timişoara, Seria Matematica* (2012 –present).
- Member in the National Research Council (2011-present).
- Member in Doctoral Committees:
 1. University of Craiova (2009). Title: Topological methods in the study of boundary value problems. PhD candidate: M.-M. Boureanu.
 2. Babeş-Bolyai University (2009). Title: Contributii la conceperea, proiectarea si implementarea unor sisteme de asistare a deciziilor utilizand algoritmi genetici. PhD candidate: L. Illés.
 3. University of Debrecen, Debrecen, Hungary (2009). Title: Ehresmann-manifolds, sprays, and transformations of D-manifolds. PhD candidate: J. Pék.
 4. Central European University, Budapest, Hungary (2011). Title: Iterative processes for solving nonlinear operator equations. PhD candidate: O. A. Boikanyo.

11. Grants

- **Director** in the research project CNCS-UEFISCDI/PN-II-ID-PCE-2011-3-0241 (2011-2014). Title: Symmetries in elliptic problems: Euclidean and non-Euclidean techniques (1.200.000 lei)
- **Director** in the research project CNCSIS/PN-II-ID-527 (2007-2010). Title: Application of recent variational methods to the study of nonlinear elliptic PDEs and optimization problems (777.633 lei)
- **Director** in the research project CNCSIS/PN-AT 8/70 (2006-2007). Title: Study of elliptic problems via critical point theory (59.000 lei)
- **Member** in the research project CNCS-UEFISCDI/PN-II-RU-TE-2011-3-004 (2011-2014). Title: Recent problems in Computer Aided Geometric Design. Director: dr. Róth Ágoston.
- **Member** in the research project CNCS-UEFISCDI/PN-II-ID-PCCE-55/2008 (2010-2013). Title: Nonlinear systems in Mathematical Analysis and applications. Director: dr. Radu Precup.
- **Member** in the research project CNCS-UEFISCDI/PN-II-ID-PCE-2162/2008 (2008-2011). Title: Nonsmooth phenomena in nonlinear elliptic problems. Director: dr. Hannelore Lisei.

8 August 2012

Kristály Alexandru