

CURRICULUM VITAE

1. **Nume:** KRISTÁLY Alexandru
2. **Data nașterii:** 22 martie 1975, Bălan.
3. **Cetățenia:** română, maghiară
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5. **E-mail:** alexandrukristaly@yahoo.com, alexandru.kristaly@econ.ubbcluj.ro
6. **Studii de bază:** Universitatea Babeș-Bolyai, Facultatea de Matematică și Informatică

Instituția	Universitatea Babeș-Bolyai	Universitatea Babeș-Bolyai	Liceul Teoretic Márton Áron
Perioada	1997-1998	1993-1997	1989-1993
Diplome obținute	Masterat în matematică	Licențiat în matematică	Bacalaureat

7. Specializări și calificări (doctorate):

1. Doctorat, Universitatea Babeș-Bolyai, Facultatea de Matematică și Informatică, Cluj-Napoca, 1998-2003. Titlul disertației: Critical and equilibrium points for set-valued maps; conducător: dr. Wolfgang W. Breckner;
2. Doctorat, Universitatea din Debrecen, Institutul de Matematică, Debrecen, Ungaria, 2000-2005. Titlul disertației: Non-smooth critical point theories with applications in elliptic problems and the theory of geodesics; conducător: dr. Kozma László.
3. Doctorat, Central European University, Department of Mathematics and its Applications, Budapesta, 2006-2010. Titlul disertației: Economic optimization problems via Riemann-Finsler geometry; conducător: dr. Gheorghe Moroșanu.

8. Experiența profesională

- Preparator universitar, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai, Cluj-Napoca, Catedra de Analiză și Optimizare, Cluj-Napoca, 1998-2000;
- Asistent universitar, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai, Cluj-Napoca, Catedra de Analiză și Optimizare, Cluj-Napoca, 2000-2003;
- Lector universitar, Facultatea de Științe Economice și Gestiunea Afacerilor, Universitatea Babeș-Bolyai, Cluj-Napoca, Extensia Sf-Gheorghe, 2003-2007;
- Conferențiar universitar, Facultatea de Științe Economice și Gestiunea Afacerilor, Universitatea Babeș-Bolyai, Extensia Sf-Gheorghe, 2007-2013.
- Profesor universitar, Facultatea de Științe Economice și Gestiunea Afacerilor, Universitatea Babeș-Bolyai, Extensia Sf-Gheorghe, 2013-.

9. Lista de publicații

9.1. Articole acceptate/publicate în reviste ISI

1. Kristály A, *Nash-type equilibria on Riemannian manifolds: a variational approach*, J MATH PURES APPL (Liouville Journal), 2013, acceptat.

2. Kristály A, S. Ohta, *Caffarelli-Kohn-Nirenberg inequality on metric measure spaces with applications*, MATH ANNALEN, 357:(2) 711-726 (2013).
3. Z. Balogh, Kristály A, *Lions-type compactness and Rubik actions on the Heisenberg group*, CALCULUS OF VARIATIONS AND PDE, 48:(1-2) 89-109 (2013).
4. Kristály A, Repovš D, *Metric projections versus non-positive curvature*. DIFF GEOM APPL 31(5) 602-610 (2013).
5. Kristály A, Repovš D, *On the Schrödinger–Maxwell system involving sublinear terms*, NONLINEAR ANALYSIS-REAL WORLD APPLICATIONS, 13:(1), 213-223 (2012).
6. Kristály A, *Bifurcations effects in sublinear elliptic problems on compact Riemannian manifolds*. J MATH ANAL APPL 385:(1) 179–184 (2012).
7. Faraci F, Iannizzotto A, Kristály A, *Low-dimensional compact embeddings of symmetric Sobolev spaces with applications*, P ROY SOC EDINB – SECTION A 141:(2) 383–395 (2011).
8. Kristály A, Repovš D, *Multiple solutions for a Neumann system involving subquadratic nonlinearities*, NONLINEAR ANALYSIS-TMA, 74:(6) 2127–2132 (2011).
9. Kristály A, Mihăilescu M, Rădulescu R, Tersian S, *Spectral estimates for a nonhomogeneous difference problem*, COMMUN CONTEMP MATH 12:(6) 1015–1029 (2010).
10. Kristály A, *Location of Nash equilibria: a Riemannian geometrical approach*, PROC AMER MATH SOC 138:(5) 1803-1810 (2010).
11. Kristály A, *On a new class of elliptic systems with nonlinearities of arbitrary growth*, J DIFFERENTIAL EQUATIONS, 249:(8) 1917–1928 (2010).
12. Kristály A, Morosanu Gh, *New competition phenomena in Dirichlet problems*, J MATH PURES APPL (Liouville Journal), 94:(6) 555-570 (2010).
13. Kristály A, Marzantowicz W, Varga Cs, *A non-smooth three critical points theorem with applications in differential inclusions*, J GLOBAL OPTIM 46:(1) 49-62 (2010).
14. Kristály A, Papageorgiou NS, *Multiple nontrivial solutions for Neumann problems involving the p -Laplacian: a Morse theoretical approach*, ADV NONLINEAR STUD 10:(1), 83-107 (2010).
15. Kristály A, Papageorgiou NS, Varga Cs, *Multiple solutions for a class of Neumann elliptic problems on compact Riemannian manifolds with boundary*. CANAD MATH BULL 53:(4) 674–683 (2010).
16. Kristály A, *Asymptotically critical problems on higher-dimensional spheres*, DISCRETE CONT DYN SYSTEMS 23: (3) 919-935 (2009).
17. Kristály A, Varga Cs, *Multiple solutions for a degenerate elliptic equation involving sublinear terms at infinity*, J MATH ANAL APPL 352: (1) 139-148 (2009).
18. Kristály A, Papageorgiou NS, *Multiplicity theorems for semilinear elliptic problems depending on a parameter*, P EDINBURGH MATH SOC 52: (1) 171-180 (2009).
19. Kristály A, Radulescu V, *Sublinear eigenvalue problems on compact Riemannian manifolds with applications in Emden-Fowler equations*, STUD MATH 191: (3) 237-246 (2009).
20. Kristály A, Mihăilescu M, Radulescu V, *Two nontrivial solutions for a non-homogeneous Neumann problem: an Orlicz-Sobolev space setting*, P ROY SOC EDINB – SECTION A 139: 367-379 (2009).
21. Filippakis M, Kristály A, Papageorgiou NS: *Existence of five nonzero solutions with exact sign for a p -Laplacian equation*, DISCRETE CONT DYN SYSTEMS 24: (2) 405-440 (2009).

22. Kristály A, *Detection of arbitrarily many solutions for perturbed elliptic problems involving oscillatory terms*, J DIFFERENTIAL EQUATIONS 245: (12) 3849-3868 (2008).
23. Kristály A, Lisei H, Varga Cs, *Multiple solutions for p-Laplacian type equations*, NONLINEAR ANALYSIS-TMA 68: (5) 1375-1381 (2008).
24. Kristály A, Marzantowicz W, *Multiplicity of symmetrically distinct sequences of solutions for a quasilinear problem in R^N* , NODEA- NONLINEAR DIFF EQUATIONS APPL 15: (1-2) 209-216 (2008).
25. Kristály A, Morosanu G, Roth A, *Optimal placement of a deposit between markets: Riemann-Finsler geometrical approach*, J OPTIM THEORY APPL 139: (2) 263-276 (2008).
26. Kristály A, *Perturbed Neumann problems with many solutions*, NUMER FUNC ANAL OPT 29: (8/9) 1114-1127 (2008).
27. Kristály A, *A double eigenvalue problem for Schrodinger equations involving sublinear nonlinearities at infinity*, ELECTR J DIFFER EQUAT 42: (42) 1-11 (2007).
28. Kristály A, Varga Cs, Varga V, *A nonsmooth principle of symmetric criticality and variational-hemivariational inequalities*, J MATH ANAL APPL 325: (2) 975-986 (2007).
29. Kristály A, Varga Cs, *Multiple solutions for elliptic problems with singular and sublinear potentials*, P AMER MATH SOC 135: (7) 2121-2126 (2007).
30. Kristály A, *Multiple solutions of a sublinear Schrodinger equation*, NODEA-NONLINEAR DIFF EQUATIONS APPL 14: (3-4) 291-302 (2007).
31. Kristály A, Motreanu D, *Nonsmooth Neumann-type problems involving the p-Laplacian*, NUMER FUNC ANAL OPT 28: (11-12) 1309-1326 (2007).
32. Kristály A, Faraci F, *On an open question of Ricceri concerning a Neumann problem*, GLASGOW MATH J 49: (2) 189-195 (2007).
33. Kristály A, Faraci F, *One-dimensional scalar field equations involving an oscillatory nonlinear term*, DISCRETE CONT DYN SYSTEMS 18: (1) 107-120 (2007).
34. Kristály A, Morosanu G, Tersian S, *Quasilinear elliptic problems in involving oscillatory nonlinearities*, J DIFFERENTIAL EQUATIONS 235: (2) 366-375 (2007).
35. Kozma L, Kristály A, *Metric characterization of Berwald spaces of non-positive flag curvature*, J GEOMETRY PHYSICS 56: 1257-1270 (2006).
36. Kristály A, *Existence of nonzero weak solutions for a class of elliptic variational inclusions systems in R^N* , NONLINEAR ANALYSIS-TMA 65: (8) 1578-1594 (2006).
37. Kristály A, *Infinitely many solutions for a differential inclusion problem in R^N* , J DIFFERENTIAL EQUATIONS 220: (2) 511-530 (2006).
38. Kristály A, Motreanu V, Varga Cs, *A minimax principle with general Palais-Smale conditions*, COMMUN APPL ANAL 9: (2) 285-299 (2005).
39. Kristály A, Varga Cs, Varga V, *An eigenvalue problem for hemivariational inequalities with combined nonlinearities on an infinite strip*, NONLINEAR ANALYSIS-TMA 63: (2) 260-277 (2005).
40. Kristály A, *Existence of two nontrivial solutions for a class of quasilinear elliptic variational systems on strip-like domain*, P EDINBURGH MATH SOC 48: (2) 465-477 (2005).
41. Kristály A, *Infinitely many radial and non-radial solutions for a class of hemivariational inequalities*, ROCKY MT J MATH 35: (4) 1173-1190 (2005).
42. Kristály A, *Multiplicity results for an eigenvalue problem for hemi-variational inequalities in strip-like domains*, SET-VALUED ANAL 13: (1) 85-103 (2005).

43. Kristály A, Varga Cs, *On a class of a quasilinear elliptic problem in R^N* , MATH NACHR 275: (15) 1756-1765 (2005).
44. Kozma L, Kristály A, Varga Cs, *Dispersing of geodesics in Berwald spaces of nonpositive flag*, HOUSTON J MATH 30: (2) 403-420 (2004).
45. Kristály A, Varga Cs, *Set-valued versions of Ky Fan's inequality with application to variational inclusion theory*, J MATH ANAL APPL 282: (1) 8-20 (2003).

9.2. Articole publicate în reviste indexate BDI [Mathematical Reviews, Zentralblatt Math]

1. Kristály A, Mezei I, *Multiple solutions for a perturbed system on strip-like domains*. Discrete Contin. Dyn. Syst. Ser. S 5 (2012), no. 4, 789–796.
2. Kristály A, Varga Cs, *Variational-hemivariational inequalities on unbounded domains*. Stud. Univ. Babeş-Bolyai Math. 55 (2010), no. 2, 3–87.
3. Kristály A, O'Regan D, Varga Cs, *Parametrized nonlinear equations on Dirichlet forms*, Communication on Applied Analysis, 13:(3) 317-326 (2009).
4. Kristály A, *A double eigenvalue problem for Schrodinger equations involving sublinear nonlinearities at infinity*, Electr. J. Differential Equations 42: (42) 1-11 (2007). MR2299596
5. Kristály A, Motreanu V, Varga Cs, *A minimax principle with general Palais-Smale conditions*, Communication on Applied Analysis, 9:(2) 285-299 (2005). MR2168763, Zbl pre05017140
6. Kristály A, *Hemivariational inequality systems and applications*, Mathematica (Cluj), 46:(2) 161-168 (2004). MR2102187, Zbl pre05036682
7. Kristály A, Kozma L, Varga Cs, *Critical point theorems on Finsler manifolds*, Beitrage zur Algebra und Geometrie, 45:(1) 47-59 (2004). MR2070632, Zbl pre02096230
8. Kristály A, Varga Cs, *Coercivity of set-valued mappings on metric space*, Mathematica Pannonica, 13(2) 241-248 (2003). MR1932430, Zbl 1012.58014
9. Kristály A, Varga Cs, *Cerami (C) condition and mountain pass theorem for multivalued mappings*, Serdica Mathematical Journal, 28, 95-108 (2002). MR1911856, Zbl 1032.58004
10. Kristály A, Varga Cs, *Location results for multivalued functionals*, Acta Universitatis Carolinae, 42, 59–68 (2001). MR1900392, Zbl 1031.49007
11. Kristály A, Varga Cs, *Coerciveness property for a class of set-valued mappings*, Nonlinear Analysis Forum 6:(2) 353–362 (2001). MR1891720, Zbl 1005.5800D
12. Kristály A, Varga Cs, *A note on minmax results for continuous functionals*, Studia Univ. „Babeş-Bolyai”, Mathematica, XLIII:(3) 35-55 (1998). MR1854539, Zbl 1010.49003

9.3. Lucrări în volume de conferință

1. Kristály A, *Elliptic eigenvalue problems on unbounded domains involving sublinear terms*, More Progresses in Analysis, Proceedings of the 5th International ISAAC Congress [Catania, Italy 25 – 30.07.2005], 2009, pp. 805-814.
2. Kozma L, Kristály A, Varga Cs, *Isometry-invariant geodesics with Lipschitz obstacle*, Differential Geometry and its Applications, Proc. Conf. Opava (Czech Republic), 27-31.08.2001, Silesian University, Opava, 2001, pp. 203-214. MR1978777, Zbl 1038.58008

9.4. Monografiile și capitole de cărți

1. Kristály A, Radulescu V, Varga Cs, *Variational Principles in Mathematical Physics, Geometry, and Economics*, Encyclopedia of Mathematics and its Applications, No. 136, Cambridge University Press, Cambridge, UK. ISBN-10: 0521117828 | ISBN-13: 9780521117821
Online: <http://www.cambridge.org/catalogue/catalogue.asp?isbn=9780521117821>
2. Kristály A, *A Set-Valued Approach to Critical and Equilibrium Points*, Casa Cărții de Știință, Cluj-Napoca, Romania, 2009. ISBN: 978-973-133-616-9
3. Kristály A, Varga Cs, *An Introduction to Critical Point Theory for Non-smooth Functions*, Casa Cărții de Știință, Cluj-Napoca, Romania, 2004 ISBN: 973-686-604-1
4. Kristály A, Papageorgiou NS, *Study of some semilinear elliptic problems on R^n via variational methods* [Chapter 5, in 'Handbook of Nonconvex Analysis and Applications', Edited by D.Y. Gao and D.Motreanu. ISBN: 978-1-57146-200-8. Published at 12 November 2010. Publisher: International Press of Boston]. Pagina web: <http://intlpress.com/books/9781571462008.php>

10. Burse și invitații (listă selectivă)

10.1. Burse postdoctorale

1. **Junior Research Fellowship**, Central European University, Special and Extension Programs, Budapesta, 3 luni (01.11. 2005. – 31.01. 2006.).
2. **Domus Hungarica**, Universitatea din Debrecen, Debrecen, 3 luni (2005-2006).
3. **Young Researcher**, Geometrical Analysis, EU Research Training Network PRN-CT-999-00118/2000-2004, Institute of Mathematics of the Polish Academy of Sciences, Stefan Banach Center, Varșovia, Polonia, 4 luni (01.06. - 31.08. 2003. și 20.01. -20. 02. 2004.).
4. **Bursa J. Bolyai, Academia Maghiară de Știință**, 2009-2012.

10.2. Alte burse:

4. **"Two weeks on Global Analysis"**, Centro di Ricerca Matematica Ennio De Giorgi, Scuola Normale Superiore, Pisa, 13-23.02.2005;
5. **Financial Mathematics, Non-Smooth Analysis, and Game Theory**, Bankya, Bulgaria, 28.01. – 08.02.2002, DAAD "Akademischer Neuaufbau Sudosteuropa";
6. **CEEPUS**: Kossuth Lajos TE, Institutul de Matematica, Debrecen, 03.1999. și 06. 2000.; Szegedi TE, Szeged, 09.2002; Pécsi TE, Pécs, 03.2004.

10.3. Invitații speciale:

1. Professori visitatori, INDAM (Istituto Nazionale di Alta Matematica), Universita di Catania, Catania, Italia. 01.06.2005 - 30.07.2005, 01-15.09.2009, 08-22.01.2011.
2. Institut des Hautes Etudes Scientifiques (IHES), Bures-sur-Yvette, Franța, 15 martie-15 aprilie 2011.
3. Universitatea din Berna, Berna, Elveția, 01-15 decembrie 2011, 01-15 mai 2011, 15 noiembrie-31 decembrie 2011.

11. Premii

1. Placa Bolyai (Bolyai Plakett), Academia Maghiară de Știință, Budapesta, 2013.

2. Premiul Cercetării Științifice, Universitatea Babeș-Bolyai, 2007, 2009, 2011.
3. Best Dissertation Award, Central European University, Budapesta, Ungaria, 2010.
4. Concursul Internațional de Matematică: Vác, 1993, Premiul I; Komárom, 1992, Premiul II.

12. Școli de vară (listă selectivă)

1. Spring School in Nonlinear Partial Differential Equations, Louvain-la-Neuve, Belgia, 26-30. 05.2008. Titlul prezentării: *Detection of arbitrarily many solutions for perturbed elliptic problems involving oscillatory terms*;
2. Workshop on "Critical Point Theory and its Applications", Universitatea Babeș-Bolyai, Cluj-Napoca, 09-14.07.2007. Titlul prezentării: *Asymptotically critical problem on higher dimensional spheres*.
3. "International Workshop on Applied Evolution Equations", Central European University, Budapesta, 21-25.05.2007. Titlul prezentării: *Homoclinic solutions for an elliptic problem in R^N with oscillatory terms*;
4. Workshop "Topological and variational methods for differential equations", University of Rousse, Rousse, Bulgaria, 07-11.05.2007. Titlul prezentării: *Sublinear eigenvalue problems on compact Riemannian manifolds with applications in Emden-Fowler equations*;
5. Mini-workshop: Some Advances in Applied Mathematics, Central European University, Budapesta, 25-29.09.2006. Titlul prezentării: *Quasilinear elliptic problems with oscillatory nonlinearities*;
6. Mini-workshop: Recent advances in calculus of variations, Central European University, Budapesta, 30 aprilie – 7 mai 2006. Titlul prezentării: *One-dimensional scalar field equations involving an oscillatory nonlinear term*;
7. Workshop and Conference on Recent Trends in Nonlinear Variational Problems, Abdus Salam ICPT, Trieste, Italia, 22 aprilie- 8 mai 2003;
8. Winter School on Abstract Analysis, Lhota nad Rohanovem, Republica Cehă, 03-10.02.2001. Titlul prezentării: *Coerciveness property for a class of set-valued mappings*;
9. Nonlinear modelation, Brașov, România, iulie 1997.

13. Conferințe (listă selectivă):

1. Winter School on Abstract Analysis, Lhota nad Rohanovem, Republica Cehă, 03-10. 02.2001. Titlul prezentării: *Coerciveness property for a class of set-valued mappings*;
2. Universitatea din Debrecen, Debrecen, 12.05.2002. Titlul prezentării: *Inegalitatea minimax a lui Ky Fan cu aplicații*;
3. Institutul Bolyai, Szeged, 14.09.2002. Titlul prezentării: *Relații metrice pe spații Berwald cu curbură negativă*;
4. National Conference on Mathematical Analysis and Applications, Cluj-Napoca, 08-9.11.2002. Titlul prezentării: *Nash Equilibrium points for set-valued maps*;
5. Universitatea Tehnica din Varsovia, 18.02.2004. Titlul prezentării: *Some aspects on Finsler geometry*;
6. International Conference on Economics, Law and Management, Târgu-Mureș, România, 03-05.06.2004. Titlul prezentării: *Metric characterization of Berwald spaces of non-positive flag curvature*;
7. International Conference in Nonlinear Differential Equations and Applications (ICNODEA), Cluj-Napoca, 24-27.08.2004. Titlul prezentării: *Multiplicity results for an eigenvalue problem for hemivariational inequalities in strip-like domains*;

8. Universita di Messina, Italia, 12.07.2005. Titlul prezentării: *Multiple solutions of certain elliptic problems on unbounded strips;*
9. Universita di Reggio Calabria, Italia, 13.07.2005. Titlul prezentării: *Infinitely many homoclinic solutions for an elliptic problem in R^N ;*
10. The 22th IFIP TC 7 Conference on System Modelling and Optimization, Politecnico di Torino, Italia, 18-22.07.2005. Titlul prezentării: *Infinitely many solutions for a differential inclusion problem in R^N ;*
11. The 5th ISAAC Congress, University of Catania, Italia (invited main speaker), 25-30.07.2005. Titlul prezentării: *Elliptic eigenvalue problems on unbounded domains involving sublinear terms;*
12. Central European University, Department of Mathematics and its Applications, Budapesta, 07.12.2005. Titlul prezentării: *Multiple solutions of sublinear elliptic problems in R^N .*
13. Mini-workshop: Recent advances in calculus of variations, Central European University, Budapesta, 30.04.-07.05.2006. Titlul prezentării: *One-dimensional scalar field equations involving an oscillatory nonlinear term;*
14. Adam Mickiewicz University, Poznan, Polonia, 20.06.2006. Titlul prezentării: *Infinitely many solutions for an one-dimensional scalar field equation;*
15. University of Rousse, Rousse, Bulgaria, 01.08.2006. Titlul prezentării: *Nonradial sign changing solutions for quasilinear elliptic equations;*
16. Mini-workshop: Some Advances in Applied Mathematics, Central European University, Budapesta, 25-29.09. 2006. Titlul prezentării: *Quasilinear elliptic problems with oscillatory nonlinearities;*
17. University of Perpignan, Perpignan, Franța, 28.03. 2007. Titlul prezentării: *Sublinear eigenvalue problems on compact Riemannian manifolds;*
18. Workshop "Topological and variational methods for differential equations", University of Rousse, Rousse, Bulgaria, 07-11.05. 2007. Titlul prezentării: *Sublinear eigenvalue problems on compact Riemannian manifolds with applications in Emden-Fowler equations;*
19. "International Workshop on Applied Evolution Equations", Central European University, Budapesta, 21-25.05. 2007. Titlul prezentării: *Homoclinic solutions for an elliptic problem in R^N with oscillatory terms;*
20. Universita di Messina, Italia, 26.06. 2007. Titlul prezentării: *Sublinear eigenvalue problems on compact Riemannian manifolds;*
21. Universita di Catania, Italia, 28.06.2007. Titlul prezentării: *Asymptotically critical problems on spheres;*
22. International Conference in Nonlinear Differential Equations and Applications (ICNODEA), Cluj-Napoca, 03-8.07.2007. Titlul prezentării: *Elliptic problems in R^N involving oscillatory nonlinearities;*
23. Workshop on "Critical Point Theory and its Applications", Universitatea Babeș-Bolyai, Cluj-Napoca, 09-14.07.2007. Titlul prezentării: *Asymptotically critical problem on higher dimensional spheres;*
24. Central European University, Department of Mathematics and its Applications, Budapesta, 02.10.2008. Titlul prezentării: *Best approximation problems on Finsler-Riemann manifolds;*
25. Spring School in Nonlinear Partial Differential Equations, Louvain-la-Neuve, Belgia, 26-30.05.2008. Titlul prezentării: *Detection of arbitrarily many solutions for perturbed elliptic problems involving oscillatory terms ;*
26. Universita di Messina, Messina, Italia, 10.09.2009. Titlul prezentării: *Arbitrary many solutions for a perturbed problem;*

27. Universita di Catania, Catania, Italia, 09.2009. Titlul prezentării: *On a new class of elliptic systems with nonlinearities of arbitrary growth*;
28. ELTE, Budapesta, 19.11.2009. Titlul prezentării: *Proiecții metrice și puncte de echilibru Nash*;
29. Universitatea Ovidius din Constanța, Constanța, România, 22.05. 2010. Titlul prezentării: *Probleme de tip Weber și de echilibru Nash*.
30. The 7th Bolyai-Gauss-Lobachevsky Conference, International Conference on Non-Euclidean Geometry and its Applications, Cluj-Napoca, România, 05-09.07.2010. Titlul prezentării: *Nash-Stampacchia equilibrium points on Riemannian manifolds*;
31. Institute of Mathematics "Simion Stoilow" of the Romanian Academy, București, România, Monthly Seminar Series. 17.11.2010. Titlul prezentării: *Elliptic problems involving oscillatory nonlinearities*;
32. University of Bern, Bern, Elveția. 07.12.2010. Titlul prezentării: *Nash-type equilibria on Riemannian manifolds: questions and perspectives*;
33. Universita di Messina, Messina, Italia, 13.01.2011. Titlul prezentării: *Multiple solutions for an elliptic equation on the whole space*;
34. Universita di Catania, Catania, Italia, 20.01.2011. Titlul prezentării: *A dimension-depending multiplicity result for the Schrödinger equation*;
35. International Conference on Nonlinear Operators, Differential Equations and Applications, 5-8.07.2011. Cluj-Napoca, România. (Invited speaker). Titlul prezentării: *Anisotropic elliptic problems involving asymmetric Minkowski norms*;
36. Universitatea Tehnică din Budapesta, Budapesta, Ungaria, 15.09.2011. Titlul prezentării: *Principii de simetrizare în probleme eliptice: fenomene izotrope și anizotrope*;
37. University of Bern, Bern, Elveția. 19.12.2011. Titlul prezentării: *Nash-type equilibria on Riemannian manifolds*;
38. Universitatea Tehnică din Budapesta, Budapesta, Ungaria, 30.01-03.02. 2012. Mini-curs intens (maghiară): *Calcul variațional și ecuații cu derivate parțiale*;
39. Universitatea din Debrecen, Debrecen, 09.03.2012. Titlul prezentării: *Probleme de tip Nash pe varietăți Riemann*.
40. University of Rousse, Rousse, Bulgaria. 4.10.2012. Titlul prezentării: *Anisotropic problems in the presence of asymmetric norms*;
41. University of Kyoto, Kyoto, Japonia. 9.10.2012. Titlul prezentării: *Caffarelli-Kohn-Nirenberg inequalities on Finsler manifolds*.
42. King Fahd University of Petroleum&Minerals, Dammam, Arabia Saudita, 30 aprilie 2013. Titlul prezentării: *Nash-type equilibria on Riemannian manifolds*.
43. Universite Paris-Sud, Orsay, Paris, Franta, 30 mai 2013. Titlul prezentării: *Caffarelli-Kohn-Nirenberg inequalities on metric measure spaces: symmetrization and rigidity*.
44. 14th IEEE International Symposium on Computational Intelligence and Informatics, Obudai Egyetem, Budapesta. 19-21 noiembrie 2013. Workshop: Analytical and Geometrical Methods for Solving Engineering Problems. Titlul prezentării: *Heisenberg uncertainty principles on Riemann-Finsler manifolds: the effect of curvature*.
45. ICMC - Summer Meeting on Differential Equations (2014 Chapter), Sao Paulo, Brazilia, 3-7 februarie 2014. Titlul prezentării: *Caffarelli-Kohn-Nirenberg inequalities on metric measure spaces: symmetrization and rigidity*.

14. Activități editoriale și comisii

- Referent la Mathematical Reviews;
- Membru al asociației American Mathematical Society [2006 - prezent]
- Membru al corporației doctorilor a Academiei Maghiare de Științe [2006 - prezent]
- Editor la Studia Universitatis Babes-Bolyai Mathematica [2010- prezent] și Analele Universității din Timisoara, Seria Matematica [2012 –prezent]
- Membru în comisii de doctorat:
 1. Universitatea din Craiova (2009). Titlul disertației: Topological methods in the study of boundary value problems. Doctorand: M.-M. Boureau.
 2. UBB (2009). Titlul disertației: Contributii la conceperea, proiectarea și implementarea unor sisteme de asistare a deciziilor utilizând algoritmi genetici. Doctorand: L. Illes.
 3. Universitatea din Debrecen, Debrecen, Ungaria (2009). Titlul disertației: Ehresmann-manifolds, sprays, and transformations of D-manifolds. Doctorand: J. Pék.
 4. Central European University, Budapesta, Ungaria (2010). Titlul disertației: Eigenvalue problems for some elliptic partial differential operators. Doctorand: M. Mihailescu.
 5. Central European University, Budapesta, Ungaria (2011). Titlul disertației: Iterative processes for solving nonlinear operator equations. Doctorand: Oganeditse Aaron Boikanyo.
- Membru CNCS (2011-prezent).

15. Limbi: maghiară (limba maternă), engleză (TOEFL- Computer Based Test: 237 puncte, Pitman Qualification Certificate, Intermediate level "English for Speakers of Other Languages" (ESOL)), franceză (nivel mediu), română (nivel avansat).

16. Domenii de cercetare

- Teoria punctului critic;
- Ecuații cu derivate parțiale;
- Geometria Riemann-Finsler și optimizare geometrică.

17. Granturi (listă selectivă)

- Proiect CNCS: PN-II-ID-PCE-2011-3-0241 (2011-2015). Titlul: *Simetrii in probleme eliptice: tehnici euclidiene și ne-euclidiene*. Director de proiect: dr. Kristály Alexandru;
- Proiect CNCSIS: PN-II-ID-527 (2007-2010). Titlul: *Aplicarea unor metode variaționale recente la studiul ecuațiilor eliptice neliniare și al problemelor de optimizare*. Director de proiect: dr. Kristály Alexandru;
- Proiect CNCSIS: PN_AT 8/70 (2006-2007). Titlul: *Studiul unor probleme eliptice cu ajutorul teoriei punctelor critice*. Director de proiect: dr. Kristály Alexandru.

18. Indexul Hirsch: 9.

19. Citări străine: minim 295 de citări în reviste cu factor de impact.

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dr. Kristály Alexandru