

Csaba Farkas

Curriculum Vitae

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Birth of date: 1987 January 06

Place: Odorheiu Secuiesc



Studies

- 2011–2014 **PhD: Studies**, *Babeş-Bolyai University, Departament of Mathematics and Informatics*, Cluj-Napoca, PhD school of mathematics.
Title of the thesis: Symmetrization methods in the study of sublinear elliptic problems, Supervisor: dr. Csaba Varga, Babeş-Bolyai University
- 2009–2011 **Master degree**, *Babeş-Bolyai University, Departament of Mathematics and Informatics*, Cluj-Napoca, Title of the master program: Computational mathematics.
Title of the graduation thesis: Variational principles and their supervisors, Supervisor: dr. Csaba Varga
- 2006–2009 **Bachelor degree**, *Babeş-Bolyai University, Departament of Mathematics and Informatics*, Cluj-Napoca, Title of the master program: Mathematics and Informatics.
Title of graduation thesis: The Kakeya problem, Supervisor: dr. Anna Soós
- 2002–2006 **High school**, *Orbán Balázs High School*, Cristuru-Secuiesc, .

Jobs

- 2014– **Lecturer**, *Sapientia Hungarian University of Transylvania*, Faculty of Technical and Human Sciences Tg. Mureş, Department of Mathematics and Informatics, Romania.
- 2012–2014 **Assistant lecturer**, *Sapientia Hungarian University of Transylvania*, Faculty of Technical and Human Sciences Tg. Mureş, Department of Mathematics and Informatics, Romania.
- 2009–2010 **Programmer**, *Gineri.com* , Cluj Napoca.
Romania

Prizes- selected list -

- Transilvanian Scientific Conference for University Students , **First prize**, 2011 May, Cluj-Napoca

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- Transilvanian Scientific Conference for University Students, **Second prize**, 2009 May, Cluj-Napoca
- Transilvanian Scientific Conference for University Students, **First prize**, 2008 May, Cluj-Napoca
- Traian Lalescu National Mathematical Competition for University students, Bucharest, **Hon. Mention**, 2008
- *The South Eastern European Mathematical Olympiad for University Students with International Participation (SEEMOUS)*, Agros, Cyprus, **Bronze medal**, 2007
- *International Mathematics Competition for University Students(IMC)*, Blagoevgrad, Bulgaria, **Hon. Mention**, 2007
- International Mathematical Competition for Hungarian students , Zenta, Serbia, **Hon. Mention**, 2006
- International Mathematical Competition for Hungarian students, Miskolc, Hungary, **Third prize**, 2005
- National phase of Mathematical Olympiad , Bistrița, Romania, **Bronze Medal**, 2005
- **Silver Medal**, "First twelve mathematicians in Pannonian Basin" Japan-Hungarian association, Budapest, 2004
- International Mathematical Competition for Hungarian students, Nagydo-brony, Ukraine, **Second Prize**, 2004
- National phase of Mathematical Olympiad, Deva, Romania, **Bronze medal**, 2004
- International Mathematical Competition for Hungarian students, Eger, Hungary, **Hon. Mention**, 2003
- National phase of Mathematical Olympiad, Sibiu, Romania, **Hon. Mention**, 2003

Fellowships & visits

- 2016 **Invited researcher**, *University of Santiano de Compostela, Spain*, Topic: Geometrical Analysis, Period 6-12 September, 2016..
- 2016 **Indam-Gnampa project**, *Universita di Catania, Catania, Italy*, Topic: Geometrical analysis, Period 9 february 2016-9 March 2016..
Talk given during the period: Schrödinger-Maxwell equations on Hadamard manifolds.
- 2015 **Invited researcher**, *University of Leipzig, Germany & Max Planck Institute Leipzig*, Topic: Singular Poisson equations on Finsler-Hadamard manifolds, Period 6-12 December, 2015..

- 2015 **Visiting researcher**, *Universita di Catania, Catania, Italy*, Topic: Nonlinear partial differential equation with variational methods, Period 29 September 2015-28 October 2015..
Talk given during the period: Elliptic equations on Finsler manifolds.
- 2014 **Visiting researcher**, *University of Russe, Russe, Bulgary*, Topic: Partial differential equation with variational methods, Period 24-31 January, 2014..
- 2014 **Visiting researcher**, *Universita di Catania, Catania, Italy*, Topic: Nonlinear partial differential equation with variational methods, Period 14-25 August 2014.
- 2013 **Visiting researcher**, *Universita di Catania, Catania, Italy*, Topic: Nonlinear partial differential equation with variational methods, Period 2013. October 20-2013. November 20..
- 2013 **Visiting researcher**, *Paris-Sud University, Paris*, Topic: Anisotropic partial differential equations, Paris, France .
- 2013–2014 **National Excellence Scholarship for Hungarian PhD students studying abroad**, *Title of the project: Anisotropic partial differential equations*, Supervisor: dr. Alexandru Kristály, Hungary.
- 2012–2013 **Fellowship of Collegium Talentum**, *Title of the project: Partial Differential Equations with variational methods*, Supervisor: dr. Alexandru Kristály, EDUTUS Főiskola Tatabánya, Hungary.
- 2010-2011 **Farkas Gyula research fellowship**, *Babeş-Bolyai University, Departament of Mathematics and Informatics*, Supervisor: dr. Csaba Varga, Title of the project: Application of the variational principles in the optimization, .
- 2008-2010 **Farkas Gyula research fellowship**, *Babeş-Bolyai University, Departament of Mathematics and Informatics*, Supervisor: dr. Anna Soós , Title of the project: Geometric measure theory and the Kakeya problem , Cluj Napoca, Romania.
- 2008-2010 **Research fellowship**, *Babeş-Bolyai University, Departament of Mathematics and Informatics*, Supervisor: dr. Anna Soós , Title of the project: The Kakeya problem, Cluj Napoca, Romania.
- 2008 **Fellowship of the Institute of Balassi**, *Student mobility program*, Supervisors: dr. Anna Soós ,dr. Tamás Keleti , Budapest, Hungary.
- 2007 **Erasmus fellowship**, *Technical University Dortmund*, , .

2006-2008 **Farkas Gyula research fellowship**, aBabeş-Bolyai University, Department of Mathematics and Informatics, Supervisor: dr. Szilárd András , Title of the project: Time scale analysis, Cluj Napoca, Romania .

Conferences

- **IEEE 11th International Symposium on Applied Computational Intelligence and Informatics**, "Applied Mathematics" section 2016 May 15–17, Timișoara, Title of the talk: *Schrödinger Maxwell equations on Hadamard manifolds*
- **5th International MATINFO Conference**, 2015 September 2–5, Sapientia Hungarian University of Transylvania, Tg. Mureș, Title of the Talk: *Singular Poisson equations on Finsler-Hadamard manifolds*, **Member in the main organizin comitee**
- **5th International Conference on Nonlinear Operators, Differential Equations and Applications, ICNODEA**, 2015. July 14–17, Babeş-Bolyai University, Cluj-Napoca, Title of the poster: *A quasilinear elliptic problem involving critical Sobolev exponents*
- **IEEE 9th International Symposium on Applied Computational Intelligence and Informatics**, "Applied Mathematics" section 2015 May 15–17, Timișoara, Title of the talk: *Anisotropic elliptic problems involving sublinear terms*
- **Hungarian day of Science in Transylvania, Conference**, 2014 November 21–23, Babeş-Bolyai University, Cluj Napoca, Title of the talk: *New conditions for the existence of infinitely many solutions for a quasilinear problem*
- **The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications** , "Variational, topological, and set-valued methods for differential problems" section 2014 July 07–11, Madrid, Title of the talk: *A quasilinear elliptic problem involving critical Sobolev exponents*
- **10th Joint Conference on Mathematics and Computer Science** , "Mathematics" section 2014 May 21–25, Cluj-Napoca, Title of the talk: *A quasilinear elliptic problem involving critical Sobolev exponents*
- **IEEE 9th International Symposium on Applied Computational Intelligence and Informatics**, "Applied Mathematics" section 2014 May 15–17, Timișoara, Title of the talk: *A quasilinear elliptic problem involving critical Sobolev exponents*
- **14th IEEE International Symposium on Computational Intelligence and Informatics**,, "Analytical and geometrical methods for solving engineering problems", 2013 November 21–24, University of Óbuda, Budapest, Title of the talk: *New conditions for the existence of infinitely many solutions for a quasilinear problem*
- **MATINFO Conference**, 2013 May 24–25, Sapientia Hungarian University of Transylvania, Tg. Mureș, Title of the Talk: *Some multiplicity results on strip like domains*

- **Advances in Differential Equations: symmetrizations and related topics**, 2013 March 14–15, Babeş-Bolyai University, Cluj Napoca, Title of the talk: *Symmetric invariant multiple solutions*
- **Hungarian day of Science in Transylvania, Conference**, 2012 November 9–11, Babeş-Bolyai University, Cluj Napoca, Title of the talk: *Ekeland variational principle and its application*
- **Nonlinear Difference and Differential Equations and their Applications**, 2012 October 3–6, University of Russe, Bulgaria, Title of the talk: *Some multiplicity results in strip-like domains*
- **10th International Conference on Fixed Point Theory and its Applications, ICFPTA**, 2012 July 9–15, Babeş-Bolyai University, Cluj Napoca, Title of the poster: *Multiplicity results in Strip-Like Domains*
- **Workshop on Nonlinear Partial Differential Equations on the occasion of the sixtieth birthday of Patrizia Pucci**, 2012. May 28–June 1., Università degli Studi di Perugia, Perugia, Italy, Title of the poster: *Multiplicity results for a Neumann–problem on strip-like domains*
- **4th International Conference on Nonlinear Operators, Differential Equations and Applications, ICNODEA**, 2011. July 5–8, Babeş-Bolyai University, Cluj-Napoca, Title of the poster: *A generalized variational principle and its application to equilibrium problems*
- **Hungarian day of Science in Transylvania, Conference**, 2010 November 12–13, Babeş-Bolyai University, Kolozsvár, Title of the talk: *The Kakeya problem*

Languages

Magyar	Mother language
Romanian	advanced
English	advanced
German	advanced

Computer skills

- Delphi Programming
- Matlab, Maple Programming

Research interest

- Partial Differential Equations
- Critical point theory
- Variational principles and variational methods
- Finsler/Riemannian Geometry