

Blaž Mramor

CV

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Personal Information

Date and place of birth: 19.7.1979, Ljubljana, Slovenia

Citizenship: Slovenian

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Research Interests

Calculus of Variation, Geometry, Aubry-Mather Theory, Dynamical systems

Academic and research posts

- 1.10.2015- **Postdoctoral research assistant**, *Institute for Mathematics, University of Freiburg, Germany.*
- 1.9.2013- **Assistant Professor (part-time, temporary contract)**, *FAMNIT, University of Primorska, Slovenia.*
- 1.10.2014- **Junior fellow**, *Freiburg Institute for Advanced Studies, University of Freiburg, Germany.*
- 30.9.2015
- 1.4.2013- **Postdoctoral research assistant**, *Institute for Mathematics, University of Freiburg, Germany.*
- 30.9.2014
- 1.9.2012- **Postdoctoral research assistant**, *FEW, VU University Amsterdam, The Netherlands.*
- 31.12.2012

Education

Mathematics

- 1.9.2008- **PhD**, *Mathematics, FEW, VU University Amsterdam, The Netherlands.*
- 31.8.2012 Thesis supervisors: Dr. B.W. Rink and Prof. Dr. R.C.A.M van der Vorst
Thesis title: Monotone Variational Recurrence Relations, Graduation/Defence: 21.11.2012
- 1.9.2006- **MSc**, *Mathematics, KdV Institute, University of Amsterdam, The Netherlands*, Graduated “cum laude”.
- 31.8.2008 Thesis supervisor: Prof. Dr. A.J. Homburg
Thesis topic: Unbounded hyperbolic strange attractor, Graduation: 8.8.2008
- 1.9.2004- **BSc**, *Mathematics with Physics, Faculty of Mathematics and Physics, Eberhard Karls University, Tübingen, Germany.*
- 31.8.2006
- 1.10.2003- **First year BSc**, *Pure Mathematics, Faculty of Mathematics and Physics, University of Ljubljana, Slovenia.*
- 31.8.2004

Previous studies

- 1999-2004 **Piano studies**, Academy of Music, University of Ljubljana, Slovenia, Completed the undergraduate studies for “Concert Pianist and Piano Teacher”.

Conferences

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- 17-18.10.2015 *AMS-Sectional Meeting*, Memphis, USA
- 1-5.6.2015 *Growth, Symbolic Dynamics and Combinatorics of Words in Groups*, ENS, Paris, FR
- 28-30.5.2015 *EMS-SMC Meeting*, IEC, Barcelona, ES
- 26-27.4.2012 *PhD days in analysis and dynamics*, Lunteren, NL (talk)
- 12.4.2012 *Dutch Mathematical Congress*, TU Eindhoven, NL (talk)
- 12-21.12.2011 *Dynamical Optimization in PDE and Geometry, Applications to Hamilton-Jacobi, Ergodic Optimization, Weak KAM*, Bordeaux, FR (talk)
- 1-5.8.2011 *Equadiff 2011*, Loughborough, UK (talk)
- 22-26.5.2011 *SIAM Conference on Applications of Dynamical Systems (DS11)*, Snowbird, USA (talk and organization of a mini-symposium)
- 12-13.5.2011 *PhD days in analysis and dynamics*, Schoorl, NL (talk)
- 13-17.12.2010 *Winter school on Evolution Equations in Applied Context*, Twente, NL
- 20-23.9.2010 *Variational and Topological Methods in Nonlinear Phenomena*, Cortona, IT
- 2-6.8.2010 *Conference on Symplectic techniques in conservative dynamics*, Leiden, NL (talk)
- 31.5.-4.6.2010 *Joint SIAM/RSME-SCM-SEMA Meeting on Emerging topics in dynamical systems and PDEs*, Barcelona, ESP
- 17-21.5.2009 *SIAM Conference on Applications of Dynamical Systems (DS09)*, Snowbird, USA (poster)
- 1-5.12.2008 *Conference on KAM Theory and its applications*, Leiden, NL

Research visits and selected invited talks

- 14.-17.9.2016 Research visit to Dr. B. Rink at VU University Amsterdam, talk in the UvA-VU Dynamic Analysis Seminar
- 31.5.2016 Talk in the Analysis Seminar at the University of Ljubljana
- 27-28.4.2016 Research visit to Prof. E. Valdinoci at WIAS, Berlin, Germany, talk in the Berliner Oberseminar Nichtlineare partielle Differentialgleichungen
- 12-16.10.2015 Research visit to Prof. R. de la Llave at Georgia Institute of Technology, Atlanta, GA, talk in the CDSNS colloquium
- 15-17.6.2015 Research visit to Prof. Dr. U. Lang at ETH Zürich
- 3.12.2014 Talk in the Geometry and Dynamics Seminar seminar at École Polytechnique Fédérale de Lausanne
- 17-21.11.2014 Research visit to Dr. B. Rink at VU University Amsterdam
- 15.4.2013 Talk in the Geometry Seminar at the University of Ljubljana
- 21-25.10.2013 Research visit to Dr. B. Rink at VU University Amsterdam

- 7-11.1.2013 Research visit to Prof. Dr. V. Bangert at Freiburg University, Talk in the “Oberseminar Differentialgeometrie”
- 12.9.2012 Talk in the Dynamics Seminar at the University of Groningen
- 7-9.11.2011 Research visit to Prof. Dr. V. Bangert at Freiburg University, Talk in the “Oberseminar Differentialgeometrie”
- 17-20.5.2011 Research visit to Prof. Dr. R. de la Llave at University of Texas, Austin, Talk in the PhD-student seminar
- 29.10.2010 Talk in the Dynamical Analysis Seminar at the University of Amsterdam
- 25.10.2010 Talk in the Geometry Seminar at the University of Ljubljana
- 29-30.4.2010 Research visit to Prof. Dr. M. Levi at Penn State University
- Winter semester 2010 Research visit to the Department of Mathematics at Boston University, Talk at the BU Dynamical systems seminar (1.2.2010) and Talk at the BU/Brown PDE Seminar (28.4.2010)

Teaching experience

Lecturer:

- Spring 2016 *Ordinary differential equations* (course in Slovenian “Navadne diferencialne enačbe”), University of Primorska
- Spring 2016 *Introduction to PDEs* (course in Slovenian “Izbrana poglavja iz diferencialnih enačb”), University of Primorska
- Spring 2014 *Elementary geometry* (course in German “Elementargeometrie”), University of Freiburg
- Spring 2014 *Ordinary differential equations* (course in Slovenian “Navadne diferencialne enačbe”), University of Primorska
- Spring 2014 *Distributions and PDEs* (course in Slovenian “Izbrana poglavja iz Analize 2”), University of Primorska

Teaching assistant:

- Spring 2016 *Topologie and Seminar Differentialgeometrie* (in German), University of Freiburg
- Fall 2015 *Differentialgeometrie I and Seminar Elementare Differentialgeometrie* (in German), University of Freiburg
- Fall 2013 *Seminar on geodesic flow* (in German), University of Freiburg
- Spring 2013 *Mathematik 2 für Informatiker* (in German), University of Freiburg
- Fall 2012 *An introduction to Manifolds* (in English), VU University Amsterdam
- Spring 2012 *Introduction to PDEs* (in English), VU University Amsterdam
- Fall 2011 *Functional Analysis* (in English), Dutch national master program
- Spring 2011 *Introduction to PDEs* (in English), VU University Amsterdam
- Fall 2010 *Numerical Methods with Matlab* (in English), VU University Amsterdam
- Fall 2009 *Numerical Methods with Matlab* (in English), VU University Amsterdam

Supervision

- 2016 Co-supervisor of a BSc thesis b S. Bernklau: “Symmetrische Lösungen der Allen-Cahn-Gleichung auf dem hyperbolischen Raum”, University of Freiburg, Summer 2016.
- 2011-2012 Co-supervisor for the MSc thesis by V. Knibbeler: “Twist Maps: Invariant Cantor Sets Near the Anti-integrable Limit”, VU University Amsterdam, August 22, 2011.
- Demonstrator:
- Spring 2006 *Analysis II* (in German), Eberhard Karls University, Tübingen
- Fall 2005 *Analysis I* (in German), Eberhard Karls University, Tübingen

Fellowships, scholarships and awards

- 2014-2015 Recipient of the Junior Fellowship (Marrie-Currie and a FRIAS fellowship) at the Freiburg Institute for Advanced Studies, University of Freiburg
- 2012 Nominated for the Phillips mathematics PhD prize
- 2006-2008 Scholarship from Slovene Human Resources Development and Scholarship Fund for the master program in Mathematics at University of Amsterdam
- 1994-2008 “Zois scholarship” of the Slovenian government for gifted and talented
- 1998 Awarded the prize “Golden high school graduate” for graduating with distinction (top 5%)