

CURRICULUM VITAE

ROMAN GOLOVKO

Département de Mathématiques et de Statistique
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Personal Data

Born July 7, 1982, in Zolotonosha, Ukraine; Citizen of Ukraine

Education

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| 2004–2009 | Ph.D. in Mathematics
University of Southern California
Thesis: <i>The Sutured Embedded Contact Homology of $S^1 \times D^2$</i>
Advisor: Prof. Dr. Ko Honda |
| 2004–2008 | M.A. in Applied Mathematics
University of Southern California |
| 2003–2005 | M.S. in Mathematics (with honor)
Kyiv National T. Shevchenko University |
| 1999–2003 | B.S. in Mathematics (with honor)
Kyiv National T. Shevchenko University |

Awards, Fellowships and Grants

- CIRGET/Canada Research Chair Fellowship
Université de Montréal/UQAM; 2010–2012
- MSRI Postdoctoral Fellowship
Mathematical Sciences Research Institute; 2009–2010
- Final Summer Dissertation Fellowship
University of Southern California; Summer 2009
- Graduate Research Assistantship
University of Southern California; Springs 2007, 2008 and 2009, Summer 2007

Research Interests

- Low-dimensional topology, contact and symplectic geometry, dynamical systems

- Polyfolds and a general Fredholm theory

Employment History

2009–2010	Postdoctoral Fellow Mathematical Sciences Research Institute
2010 to present	CIRGET/Canada Research Chair Postdoctoral Fellow Université de Montréal/UQAM

Invited Talks

- Mathematical Sciences Research Institute, Postdoctoral Symplectic and Contact Topology Seminar; May 2010
- Mathematical Sciences Research Institute, Working Group on Polyfolds; December 2009
- Mathematical Sciences Research Institute, Working Group on Polyfolds; November 2009
- Mathematical Sciences Research Institute, Postdoctoral Symplectic and Contact Topology Seminar; October 2009
- Georgia Institute of Technology, Geometry and Topology Seminar; April 2009
- University of Georgia, Topology Seminar; November 2008
- Pomona College, Claremont Topology Seminar; October 2008
- California Institute of Technology, Caltech Informal Topology Seminar; April 2008
- University of Southern California, Geometry and Topology Seminar; April 2007

Contributed Talks

- *IVth International Algebraic Conference in Ukraine*, National University of Lviv, Lviv, Ukraine; August 2003
- *Conference of Young Scientists*, Kyiv National T. Shevchenko University, Kyiv, Ukraine; April 2003

Publications

- *The embedded contact homology of sutured solid tori*, arXiv:0911.0055, submitted.
- *The cylindrical contact homology of sutured solid tori*, arXiv:1006.4073.
- *Polyfold user's guide* (joint with O. Fabert, J. Fish and K. Wehrheim), in preparation.

Workshops and Schools Attended

- *Symplectic Geometry, Noncommutative Geometry and Physics*, Mathematical Sciences Research Institute, Berkeley, CA, USA; May 2010
- *Symplectic and Poisson Geometry in interaction with Algebra, Analysis and Topology*, Mathematical Sciences Research Institute, Berkeley, CA, USA; May 2010
- *Symplectic and Contact Topology and Dynamics: Puzzles and Horizons*, Mathematical Sciences Research Institute, Berkeley, CA, USA; March 2010
- *Homology Theories of Knots and Links*, Mathematical Sciences Research Institute, Berkeley, CA, USA; March 2010
- *Introductory Workshop: Homology Theories of Knots and Links*, Mathematical Sciences Research Institute, Berkeley, CA, USA; January 2010
- *Algebraic Structures in the Theory of Holomorphic Curves*, Mathematical Sciences Research Institute, Berkeley, CA, USA; November 2009
- *Introductory Workshop: Symplectic and Contact Geometry and Topology*, Mathematical Sciences Research Institute, Berkeley, CA, USA; August 2009
- *Holomorphic Curves: Algebraic Structures and Geometric Applications*, Stanford University, Stanford, CA, USA; August 2008
- *Workshop on Symplectic Field Theory III*, Humboldt Universität zu Berlin, Berlin, Germany; July 2008
- *Contact Structures, Dynamics and the Seiberg-Witten Equations in Dimension 3*, Mathematical Sciences Research Institute, Berkeley, CA, USA; June 2008
- *XVth Southern California Geometric Analysis Seminar*, University of California at Irvine, Irvine, CA, USA; February 2008
- *Low Dimensional Topology*, Park City Mathematics Institute, Park City, UT, USA; July 2006

Teaching Experience

- Teaching Assistant, *Fundamental Principles of the Calculus*
University of Southern California; Fall 2004, Summer 2006 and Summer 2008
- Teaching Assistant, *Calculus I*
University of Southern California; Fall 2006
- Teaching Assistant, *Calculus II*
University of Southern California; Fall 2005

- Teaching Assistant, *Calculus III*
University of Southern California; Spring 2005 and Spring 2006
- Teaching Assistant, *Fundamental Concepts of Modern Algebra*
University of Southern California; Fall 2007 and Fall 2008
- Recitation Instructor and Grader, *Theory of Numbers*
University of Southern California; Fall 2007
- Recitation Instructor and Grader, *Algebra* (Graduate Level)
University of Southern California; Fall 2008

Seminar Organization

- Postdoctoral Symplectic and Contact Topology Seminar
Mathematical Sciences Research Institute; Fall 2009
- Graduate Geometry and Topology Seminar
University of Southern California; Fall 2008, Spring 2008 and Summer 2008

References

- Ko Honda, University of Southern California, khonda@usc.edu
- Michael Hutchings, University of California at Berkeley, hutching@math.berkeley.edu
- John Etnyre, Georgia Institute of Technology, etnyre@math.gatech.edu
- Francis Bonahon, University of Southern California, fbonahon@math.usc.edu
- Nicolai Haydn, University of Southern California, haydn@email.usc.edu (teaching)