

ANTON GORODETSKI

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Birth date: April 17, 1973

Citizenship: Russian (authorized to work in the US)

Education

Ph.D. Moscow State University, Moscow, Russia, 2001.

Thesis advisor: Prof. Yu.S.Ilyashenko.

Thesis title: Minimal Attractors and Partially Hyperbolic Dynamical Systems.

M.S. Moscow State University, Moscow, Russia, 1995.

Positions

2007-present	UC Irvine, Assistant Professor
2004-2007	Caltech, Harry Bateman Research Instructor in Mathematics
2001-2004	Independent University of Moscow, Research Associate.
2001-2004	Moscow State University, Research Associate.
1996-1997	Bauman Moscow State Technical University, Lecturer.

Short term visiting positions

01/2003-02/2003	Laboratoire de Topologie, Universite de Bourgogne, Dijon, France
05/2002-06/2002	Cornell University
10/1998-12/1998	Cornell University

Conferences organized

- April 2006, Special Section of the AMS Meeting at San Francisco State University
"Non-uniform hyperbolicity and Lyapunov exponents" (jointly with V. Kaloshin)
- December 2003, Independent University of Moscow, Russia
Conference *"Hilbert 16th and Related Problems in Dynamics, Geometry, and Analysis"*

Referencing experience

International Mathematics Research Notices (IMRN)
Discrete and Continuous Dynamical Systems
Stochastics and Dynamics
Chaos
Journal of Physics A: Mathematical and Theoretical
Proceedings of the American Mathematical Society
Inventiones Mathematicae
Nonlinearity
Differential Equations
Izvestiya: Mathematics (Russian Academy of Sciences, Izvestiya, Mathematics)
Moscow Mathematical Journal

Awards

2009	NSF grant DMS-0901627 (\$264,793 ; expires in 2012)
2002	INTAS Young Scientist Fellowship
2002	Russian Foundation for Basic Research Young Scientist Grant

1998	CRDF US-Russia Young Investigator Program Award
1997-1998	Soros Graduate Student Award
1996-1997	Soros Graduate Student Award
1994-1995	Soros Student Award
1995	Graduated from Moscow State University with Diploma with distinction

Recent talks

1. International Workshop on Global Dynamics beyond Uniform Hyperbolicity, Beijing University, August 10-21, 2009, Beijing, China.
2. Conference "Advances in Low Dimensional Dynamics", Stony Brook University, June 13, 2009.
3. Dynamical Systems Seminar, Penn State University, March 18, 2009.
4. Ergodic Theory and Topological Dynamics Seminar, UC Irvine, February 3, 2009.
5. Mathematical Physics Seminar, UC Irvine, January 29, 2009.
6. Geometry and Analysis Seminar, Rice University, January 21, 2009.
7. Differential Geometry Seminar, UC Irvine, October 21, 2008.
8. Dynamical Systems Seminar, USC, October 20, 2008.
9. Ergodic Theory and Topological Dynamics Seminar, UC Irvine, October 7, 2008.
10. Dynamical Systems Seminar, Maryland University, September 11, 2008.
11. The Fifth International Conference on Differential and Functional Differential Equations, Moscow, Russia, August 18, 2008.
12. School and Workshop on Dynamical Systems, The Abdus Salam International Center for Theoretical Physics, Trieste, Italy, July 10, 2008.
13. Semester for Hyperbolic Dynamical Systems, Erwin Schrödinger Institute for Mathematical Physics, Vienna, Austria, June 2008 (2 talks).
14. 7th AIMS International Conference on Dynamical Systems, Differential Equations and Applications, University of Texas at Arlington, May 19, 2008.
15. Departmental Colloquium, California State University - Northridge, April 30, 2008.
16. Geometry and Analysis Seminar, Rice University, April 25, 2008.
17. Mathematical Physics Seminar, UC Irvine, April 4, 2008.
18. Workshop on Dynamical Systems and Related Topics (in honor of Michael Brin on the occasion of his being 60), University of Maryland, March 2008 ("virtual talk").
19. Ergodic Theory and Topological Dynamics Seminar, UC Irvine, November 2007.
20. Dynamical Systems Seminar, Moscow State University, September 2007.
21. Steklov Mathematical Institute, International Conference "Analysis and Singularities" dedicated to the 70th anniversary of Vladimir Arnold, Moscow, August 2007.
22. Caltech, Mathematical Physics Seminar, May 2007.

Publications

1. A. Gorodetski, V. Kaloshin, Conservative homoclinic bifurcations and some applications, 27 pages, to appear in *Steklov Institute Proceedings*, volume 267 (dedicated to the 70th anniversary of Vladimir Arnold).
2. D. Damanik, A. Gorodetski, The Spectrum of the Weakly Coupled Fibonacci Hamiltonian, *Electronic Research Announcements in Mathematical Sciences*, vol. 16 (2009), pp. 23–29.
3. D. Damanik, A. Gorodetski, Hyperbolicity of the Trace Map for the Weakly Coupled Fibonacci Hamiltonian, *Nonlinearity* **22** (2009), pp. 123–143.
4. L. Diaz, A. Gorodetski, Non-hyperbolic ergodic measures for non-hyperbolic homoclinic classes, 50 pages, to appear in *Ergodic Theory and Dynamical Systems*, doi: 10.1017/S0143385708000849 (arXiv:0804.1796v1).
5. D. Damanik, M. Embree, A. Gorodetski, S. Tcheremchantsev, The Fractal Dimension of the Spectrum of the Fibonacci Hamiltonian, *Communications in Mathematical Physics*, vol. 280 (2008), no. 2, pp. 499–516.
6. A. Gorodetski, V. Kaloshin, How often surface diffeomorphisms exhibit infinite number of sinks, *Advances in Mathematics*, 208 (2007), pp. 710–797.
7. A. Gorodetski, B. Hunt, V. Kaloshin, Newton interpolation polynomials, discretization method, and certain prevalent properties in dynamical systems, vol.2, *Proceedings of ICM 2006, Madrid, Spain, European Math Society*, 2006, pp. 27–55.
8. A. Gorodetski, Regularity of central leaves of partially hyperbolic sets and applications, *Izvestiya RAN*, vol.70 (2006), no.6, pp. 52–78.
9. A. Gorodetski, Yu. S. Ilyashenko, V. Kleptsyn, M. Nalskiy, Nonremovability of zero Lyapunov exponents, *Functional Analysis and Applications*, vol.39 (2005), no. 1, pp. 21–30.
10. A. Gorodetski, Yu. S. Ilyashenko, Some properties of skew products over the horseshoe and solenoid, *Proceedings of the Steklov Institute of Mathematics*, vol.231 (2000), pp. 96–118.
11. A. Gorodetski, Yu. S. Ilyashenko, Some new robust properties of invariant sets and attractors of dynamical systems, *Functional Analysis and Applications*, no.2, vol.33, 1999, pp. 16–30.
12. A. Gorodetski, Yu. S. Ilyashenko, Minimal and strange attractors, *International Journal of Bifurcation and Chaos*, vol.6, no.6 (1996), pp. 1177–1183.
13. A. Gorodetski, Hierarchy of attractors for Axiom A diffeomorphisms, *Vestnik MSU*, no.1 (1996), pp. 84–86.

Extracurriculum activities related to teaching

- Supervision of graduate studies, courses 299A, 299B, 2008/09 (student - Vinod Rama Sastry), "Dynamical Systems".
- Presentation "How to make fractals at home", Undergraduate Mathematical Club, UC Irvine, February 2008.
- Supervision of undergraduate studies, course 199B, 2007/08 (student - Addiel Ulises de Alba Solis, ENR-ACE), "Introduction to Dynamical Systems".

- Graduate Students Colloquium talk, UC Irvine, November 2007.
- Participation in the work of "SoCal-Nev Section NExT" during MAA meeting at Santa Ana College, October 13, 2007.

Other professional service

- The Complex Analysis Qualifying Exam committee, 2008/09.
- Graduate Studies committee, 2008/09.
- Colloquium committee, 2008/09.
- The Complex Analysis Qualifying Exam committee (chair), 2007/08.
- The Graduate Admission and Advisory committee, 2007/2008.
- Session chair, The Fifth International Conference on Differential and Functional Differential Equations, Moscow, Russia, August 2008.