

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

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

Short term visiting positions

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

Teaching experience

Caltech 2004-2006

1st term 2006-2007	Ma 147a	<i>Dynamical Systems</i>
3rd term 2006-2007	Ma 147c	<i>Hamiltonian Dynamics</i>
3rd term 2006-2007	Ma 4	<i>Introduction to Mathematical Chaos</i>
1st term 2005-2006	Ma 108a	<i>Classical Analysis</i>
2nd term 2005-2006	Ma 108b	<i>Classical Analysis</i>
3rd term 2005-2006	Ma 4	<i>Introduction to Mathematical Chaos</i>
1st term 2004-2005	Ma 147a	<i>Dynamical Systems</i>
2nd term 2004-2005	Ma 108b	<i>Classical Analysis</i>
3rd term 2004-2005	Ma 147c	<i>Complex Dynamics</i>

Moscow State University 2001-2003

Introduction to Dynamical Systems, ODE, Differential Equations on Surfaces

Independent University of Moscow 2001-2003

Dynamical Systems, ODE, Probability Theory, Calculus

Bauman Moscow State Technical University 1996-1997

Linear Algebra, Numerical Methods in Mathematics

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

Inventiones Mathematicae

Nonlinearity

Differential Equations

Izvestiya: Mathematics (Russian Academy of Sciences, Izvestiya, Mathematics)

Moscow Mathematical Journal

Honors

2004	Harry Bateman Research Instructorship, Caltech
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

Publications

1. 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.
2. A. Gorodetski, V. Kaloshin, How often surface diffeomorphisms exhibit infinite number of sinks, *Advances in Mathematics*, 208 (2007), pp. 710-797.
3. A. Gorodetski, Regularity of central leaves of partially hyperbolic sets and applications, *Izvestiya RAN*, vol.70 (2006), no.6, pp. 52-78.
4. 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.
5. 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.
6. 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.
7. A. Gorodetski, Yu. S. Ilyashenko, Minimal and strange attractors, *International Journal of Bifurcation and Chaos*, vol.6, no.6 (1996), pp. 1177-1183.
8. A. Gorodetski, Hierarchy of attractors for Axiom A diffeomorphisms, *Vestnik MSU*, no.1 (1996), pp. 84-86.

Work in progress (Preliminary versions are available at www.its.caltech.edu/~asgor)

1. L. Diaz, A. Gorodetski, Non hyperbolic invariant measures produced by heteroclinic cycles, in preparation.
2. A. Gorodetski, V. Kaloshin, Hausdorff dimension of oscillatory motions in the restricted planar circular three body problem and in Sitnikov problem, in preparation.
3. D. Damanik, M. Embree, A. Gorodetski, S. Tcheremchantsev, The Fractal Dimension of the Spectrum of the Fibonacci Hamiltonian, submitted.

Recent talks

1. Caltech, Mathematical Physics Seminar, May 2007.
2. Colorado State University, Special colloquium, February 2007.
3. UC Irvine, Special colloquium, January 2007.
4. University of Alabama at Birmingham, Special colloquium, December 2006.
5. UC Riverside, Fractal Research Group Seminar, November 2006.
6. UC Irvine, Mathematical Physics Seminar, November 2006.
7. Stony Brook University, Dynamical Systems Seminar, November 2006.
8. University of Maryland, Dynamical Systems Seminar, November 2006.
9. Courant Institute of Mathematical Science, Dynamical Systems Seminar, November 2006.
10. Penn State University, Dynamical Systems Seminar, November 2006.
11. Dynamical Systems International Symposium (on the 60th Anniversary of Wellington de Melo), Salvador, Bahia, Brazil, October 2006.
12. Cornell University, Colloquium, September 2006.
13. International Workshop on Global Dynamics Beyond Uniform Hyperbolicity, Chicago, May 2006.
14. The Spring Meeting of the Western Section of the AMS, San Francisco, April 2006.
15. Joint Caltech-UCLA Analysis Seminar, November 2005.
16. UC Irvine, Mathematical Physics Seminar, November 2005.
17. Caltech, Mathematical Physics Seminar, October 2005.
18. Congresso Internacional de Sistemas Dinâmicos, Angra do Reis, Brazil, July 2005.

References

Professor John Guckenheimer,
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(607) 255-8290,
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Professor Yulij Ilyashenko,
Cornell University,
(607) 255-6334,
yulij@math.cornell.edu

Professor Vadim Kaloshin,
Penn State University,
(814) 863-4123,
kaloshin@math.psu.edu

Professor Gary Lorden, (teaching)
Caltech,
(626) 395-4349,
glorden@caltech.edu

Professor Sheldon Newhouse,
Michigan State University,
(517) 355-9684,
sen@math.msu.edu