

CURRICULUM VITAE

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Field of interest

Mathematical Physics, Functional Analysis, Operator Theory, Spectral Theory, Scattering Theory, PDE and Boundary Problems, Inverse Problems, Non-Linear Differential Equations, Mathematical Biology

Academic Background

1998 - BS in Physics, St. Petersburg St. Univ., Dept. of Math. Physics
2000 - MS in Physics, St. Petersburg St. Univ., Dept. of Math. Physics
2003 - PhD in Mathematics, St. Petersburg St. Univ., Dept. of Math. Physics,
Adviser Prof. M. Birman

Academic Positions

2000 - 2003, St. Petersburg St. Univ., Graduate Teaching Assistant
2003 - 2005, St. Petersburg St. Univ., Postdoctoral Associate
2005 - 2007, University of Wisconsin-Madison, Van Vleck Assistant Professor
2007 - 2011, University of Alabama at Birmingham, Assistant Professor
2011 - 2017, University of Alabama at Birmingham, Associate Professor
2017 - present, University of Alabama at Birmingham, Professor

Visiting Positions

2001 Winter, KTH (Stockholm) — visiting scientist
2001 Spring, Institute of Nuclear Physics (Prague) — visiting scientist
2002 Fall, Mittag-Leffler Institute (Stockholm) — visiting researcher
2004/01 - 2004/06, KTH (Stockholm) — postdoc

Teaching Experience

Calculus, Ordinary Differential Equations, Linear Algebra, Probability, Statistics, Methods of Mathematical Physics I (complex analysis), Methods of Mathematical Physics II (distributions, partial differential equations), Real Analysis, Functional Analysis, Math. Biology.

Grants and Awards

1998 — St. Petersburg City Fellowship for advanced students
1999 - 2001 — St. Petersburg University Merkur'ev Fellowship for young advanced researchers
2003 — Russian Federation Research Grant RFBR no. 03-01-06386
09/2009 - 08/2012 — NSF Grant no. DMS-0901015, Spectral properties of the periodic differential operators, \$100,231.
2013 — Best Paper Award at GENSIPS13

09/2014 - 08/2019 — Simons Foundation Grant no. 312879, Spectral properties of almost-periodic operators, \$35,000.

09/2015 - 08/2018 — NSF Grant no. CCF-1527822 (joint with N. Bouaynaya), Theoretical and Algorithmic Foundations of Constrained Particle Filtering, \$121,853 (sub-award), \$349,901 (total).

Conference and Seminar/Colloquia Presentations

Seminars at Munich Univ., Stuttgart Univ. (2003);
 Seminars at KTH (Stockholm), Lund Univ., Chalmers Univ. (Göteborg) (2004);
 Conference "Operator Theory and Mathematical Physics", Bedlewo, Poland, 07.05.2004-07.09.2004;
 Seminars at Edinburgh Univ., Birmingham Univ., UCL (2006);
 Meeting of Canadian Mathematical Society, Toronto, 12.2006;
 Seminars at UAB, Univ. of Wisconsin-Madison, Chicago Univ. (2007);
 Seminars at St. Petersburg State Univ., Univ. of Arizona-Tucson, Texas A&M Univ. (2008);
 27th Annual Western States Mathematical Physics Meeting, Caltech (2009);
 Workshop: Random Schrödinger Operators: Universal Localization, Correlations, and Interactions, The Banff International Research Station for Mathematical Innovation and Discovery (BIRS), Canada, April 19–24, 2009;
 Summer School on Selected Topics in Spectral Theory, ESI, Vienna, May 5th - July 25th, 2009;
 Seminars at UAB, Munich Univ., McGill Univ., UAH (2009);
 AMS Meeting at Lexington (March, 2010);
 2nd Meeting on Spectral Theory, St. Petersburg, July 12 - July 17, 2010;
 Conference "Operator Theory and Mathematical Physics", Bedlewo, Poland, 08.05.2010-08.12.2010;
 Seminars at Northeastern University (Boston), Institute of Advanced Studies (Auckland, New Zealand) (2010);
 35th SIAM-SEAS Meeting, Charlotte, 03.2011;
 Seminars at U. of Arkansas-Little Rock, IIMAS-UNAM (Mexico City) (2011);
 AMS Meeting at Tampa, 03.2012;
 AMS Meeting at Tucson, 10.2012;
 Conference in Dissipative Spectral Theory, Cardiff, UK, 01.2013;
 Seminars at Columbia U., Cincinnati U., U. of Wisconsin-Madison (2013);
 PyMPs Seminars at UAB (2014);
 AMS Meeting at Knoxville, 03.2014;
 Seminars at St. Petersburg State Univ., Rice University (2015);
 Workshop at Newton Institute, Cambridge, UK, 06.2015;
 AMS Meeting at Athens, 03.2016;
 Workshop at UCL, London, UK, 06.2016;
 Symposium of Young Mathematicians at Fields Institute, Toronto, 08.2016.

Conference Participation

Fourth European Congress of Mathematics, Stockholm, June 27 – July 02, 2004;
 Spectral Theory of the Schrödinger Operators, Stockholm, July 3–5, 2004;
 Spectral Theory of Partial Differential Equations, Oberwolfach, Germany, Nov. 28 – Dec. 04, 2004;

Summer School on Current Topics in Mathematical Physics, ESI, Vienna, July 21–31, 2008;

London-Paris Seminar, London, March 2009;

Workshop: Random Schrödinger Operators, The Bernoulli Center, EPFL, Lausanne, May 31 – June 4, 2010;

Summer School on Selected Topics in Mathematical Physics, Aarhus University, July 25th - July 31st, 2010;

3rd Meeting on Spectral Theory, St. Petersburg, July 1–6, 2011;

4th Meeting on Spectral Theory, St. Petersburg, 07.2012;

Scientific Semester in Periodic, Quasi-Periodic and Random Problems, Cambridge, UK, 04.2015–06.2015;

Scientific Semester in Inverse Problems, Paris, France, 05.2015.

Publications

Total number of publications: 53