

ANTON GORODETSKI

Mathematics, UC Irvine, Irvine CA 92697

(949) 824-1381, (626) 644-2322; asgor@math.uci.edu

www.math.uci.edu/~asgor

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

- | | |
|--------------|---|
| 2015-present | UC Irvine, Full Professor |
| 2011-2015 | UC Irvine, Associate Professor |
| 2007-2011 | 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 |

Conferences organized

- September 2019, Workshop at Banff International Research Station, Canada
"Random Matrix Products and Anderson Localization" (jointly with D. Damanik)
- September 2015, Workshop in Casa Matemática Oaxaca, Mexico
"Spectral Properties of Quasicrystals via Analysis, Dynamics, and Geometric Measure Theory"
(jointly with D. Damanik)
- May 2014, Cal State Fullerton, Section on Dynamical Systems at
"USA-Uzbekistan Conference on Analysis and Mathematical Physics"
- April 2014, Special Section of the AMS Meeting at University of New Mexico, Albuquerque
"Hyperbolic Dynamics, Dynamically Defined Fractals, and Applications"
- January 2014, Conference on occasion of Yulij Ilyashenko's 70th birthday in Moscow, Russia
"Attractors, Foliations and Limit Cycles" (member of Organizing Committee)
- May 2013, Workshop in University of California Irvine
"Dynamical Methods in Spectral Theory of Quasicrystals"
(jointly with D. Damanik, M. May, and W. Yessen)
- January 2011, Workshop in Oberwolfach, Germany
"Dynamics of Trace Maps and Applications to Spectral Theory" (jointly with D. Damanik)
- 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"*

Awards

- | | |
|------|--|
| 2019 | NSF grant DMS-1855541, PI |
| 2019 | Simons Foundation, Collaboration Grants for Mathematicians (declined) |
| 2018 | Simons Fellowship in Mathematics |
| 2017 | Simons Visiting Professor Award (awarded jointly by Simons Foundation and Mathematisches Forschungsinstitut Oberwolfach) |

2015	AHP Prize (for the best paper published in <i>Annales Henri Poincaré</i> in 2014)
2013	NSF grant DMS-1301515, PI
2013	Conference Support Program Award toward organization of the workshop "Dynamical Methods in Spectral Theory of Quasicrystals" in UC Irvine
2013	COR Award toward organization of the workshop "Dynamical Methods in Spectral Theory of Quasicrystals" in UC Irvine
2012	UCI Department of Mathematics Faculty Mentor Award
2010	NSF grant IIS-1018433, Co-PI (joint with Professor Max Welling)
2009	NSF grant DMS-0901627, PI
2002	INTAS Young Scientist Fellowship
2002	Russian Foundation for Basic Research Young Scientist Grant

Referencing experience

Annals of Mathematics
 Inventiones Mathematicae
 Advances in Mathematics
 Ergodic Theory and Dynamical Systems
 Communications in Mathematical Physics (CMP)
 International Mathematics Research Notices (IMRN)
 Transactions of the AMS
 Journal of Modern Dynamics (JMD)
 Annales Scientifiques de l'Ecole Normale Supérieure
 Integral Equations and Operator Theory
 Journal of Mathematical Analysis and Applications
 Moscow Mathematical Journal
 Dynamical Systems: An International Journal
 Bulletin of the Brazilian Mathematical Society
 Fundamenta Mathematicae
 Discrete and Continuous Dynamical Systems
 Stochastics and Dynamics
 Chaos
 Journal of Physics A: Mathematical and Theoretical
 Proceedings of the American Mathematical Society
 Nonlinearity
 Izvestiya: Mathematics (Russian Academy of Sciences, Izvestiya, Mathematics)
 Applied Nonlinear Dynamics

Publications

1. A. Gorodetski, Hierarchy of attractors for Axiom A diffeomorphisms, *Vestnik MSU*, no.1 (1996), pp. 84-86.
2. A. Gorodetski, Yu. S. Ilyashenko, Minimal and strange attractors, *International Journal of Bifurcation and Chaos*, vol. 6, no. 6 (1996), pp. 1177-1183.
3. 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.
4. 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.

5. 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.
6. A. Gorodetski, Regularity of central leaves of partially hyperbolic sets and applications, *Izvestiya RAN*, vol. 70 (2006), no. 6, pp. 52-78.
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, V. Kaloshin, How often surface diffeomorphisms exhibit infinite number of sinks, *Advances in Mathematics*, 208 (2007), pp. 710-797.
9. 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.
10. L. Diaz, A. Gorodetski, Non-hyperbolic ergodic measures for non-hyperbolic homoclinic classes, *Ergodic Theory and Dynamical Systems*, vol. 29 (2009), pp. 1479-1513.
11. D. Damanik, A. Gorodetski, Hyperbolicity of the Trace Map for the Weakly Coupled Fibonacci Hamiltonian, *Nonlinearity*, vol. 22 (2009), pp. 123-143.
12. D. Damanik, A. Gorodetski, The Spectrum of the Weakly Coupled Fibonacci Hamiltonian, *Electronic Research Announcements in Mathematical Sciences*, vol. 16 (2009), pp. 23-29.
13. A. Gorodetski, V. Kaloshin, Conservative homoclinic bifurcations and some applications, *Proceedings of the Steklov Institute of Mathematics*, vol. 267 (2009) (volume dedicated to the 70th anniversary of Vladimir Arnold), pp. 76-90.
14. Ch. Bonatti, L. Diaz, A. Gorodetski, Non-hyperbolic ergodic measures with large support, *Nonlinearity*, vol. 23 (2010), no. 3, pp. 687-705.
15. D. Damanik, A. Gorodetski, Spectral and Quantum Dynamical Properties of the Weakly Coupled Fibonacci Hamiltonian, *Communications in Mathematical Physics*, vol. 305 (2011), pp. 221-277.
16. Mini-Workshop: Dynamics of Trace Maps and Applications to Spectral Theory. Abstracts from the mini-workshop held January 16-22, 2011. Organized by David Damanik and Anton Gorodetski. *Oberwolfach Reports*, Vol. 8, no. 1 (2011), pp. 142-167.
17. A. Gorodetski, On stochastic sea of the standard map, *Communications in Mathematical Physics*, vol. 309 (2012), no. 1, pp. 155-192.
18. D. Damanik, A. Gorodetski, The Density of States Measure of the Weakly Coupled Fibonacci Hamiltonian, *Geometric and Functional Analysis (GAFA)*, vol. 22 (2012), pp. 976-989.
19. D. Damanik, A. Gorodetski, Hölder Continuity of the Integrated Density of States for the Fibonacci Hamiltonian, *Communications in Mathematical Physics (CMP)*, vol. 323 (2013), no. 2, pp. 497-515.
20. A. Gorodetski, Book Review (Essentials of Hamiltonian Dynamics, John H. Lowenstein, Cambridge U. Press, New York, 2012), *Physics Today*, vol. 66 (2013), issue 3, pp. 58 - 59.
21. D. Damanik, J. Fillman, A. Gorodetski, Continuum Schrodinger Operators Associated With Aperiodic Subshifts, *Annales Henri Poincare*, vol. 15 (2014), no. 6, pp. 1123-1144.

22. D. Damanik, A. Gorodetski, B. Solomyak, Absolutely Continuous Convolutions of Singular Measures and an Application to the Square Fibonacci Hamiltonian, *Duke Mathematical Journal*, vol. 164 (2015), pp. 1603–1640.
23. T. Golenishcheva-Kutuzova, A. Gorodetski, V. Kleptsyn, D. Volk, Translation numbers define generators of $F_k^+ \rightarrow \text{Homeo}_+(\mathbb{S}^1)$, *Moscow Mathematical Journal*, vol. 14 (2014), no. 2, pp. 291–308.
24. D. Damanik, A. Gorodetski, Almost Ballistic Transport for the Weakly Coupled Fibonacci Hamiltonian, *Israel Journal of Mathematics*, vol. 206 (2015), pp. 109–126.
25. D. Damanik, M. Embree, A. Gorodetski, Spectral Properties of Schrodinger Operators Arising in the Study of Quasicrystals, chapter in the book "Mathematics of Aperiodic Order" (Eds. J. Kellendonk, D. Lenz, and J. Savinien), series *Progress in Mathematics*, Birkhäuser Basel, vol. 309 (2015), pp. 307–370.
26. D. Damanik, A. Gorodetski, Almost Sure Frequency Independence of the Dimension of the Spectrum of Sturmian Hamiltonians, *Communications in Mathematical Physics (CMP)*, vol. 337 (2015), pp. 1241–1253.
27. D. Damanik, A. Gorodetski, Q.H. Liu, and Y.H. Qu, Transport Exponents of Sturmian Hamiltonians, *Journal of Functional Analysis*, vol. 269 (2015), pp. 1404–1440.
28. A. Gorodetski, V. Kleptsyn, Synchronization properties of random piecewise isometries, *Communications in Mathematical Physics*, vol. 345 (2016), pp. 781–796.
29. D. Damanik, A. Gorodetski, An Extension of the Kunz-Souillard Approach to Localization in One Dimension and Applications to Almost-Periodic Schrödinger Operators, *Advances in Mathematics*, vol. 297 (2016), pp. 149–173.
30. D. Damanik, A. Gorodetski, W. Yessen, Fibonacci Hamiltonian, *Inventiones Mathematicae*, vol. 206 (2016), pp. 629–692.
31. A. Gorodetski, Ya. Pesin, Path connectedness and entropy density of the space of hyperbolic ergodic measures, *Modern theory of dynamical systems*, 111–121, *Contemporary Mathematics* 692, Amer. Math. Soc., Providence, RI, 2017.
32. A. Gorodetski, S. Northrup, On Sums of Nearly Affine Cantor Sets, *Fundamenta Mathematicae*, vol. 240 (2018), pp. 205–219.
33. D. Damanik, A. Gorodetski, Spectral transitions for the square Fibonacci Hamiltonian, *Journal of Spectral Theory*, vol. 8 (2018), pp. 1487–1507.
34. D. Damanik, J. Fillman, A. Gorodetski, Multidimensional Almost-Periodic Schrödinger Operators with Cantor Spectrum, *Annales Henri Poincaré*, vol. 20 (2019), pp. 1393–1402.
35. A. Gorodetski, V. Kleptsyn, Parametric Furstenberg Theorem on Random Products of $SL(2, \mathbb{R})$ matrices, to appear in *Advances in Mathematics*.
36. D. Damanik, J. Fillman, A. Gorodetski, Multidimensional Schrödinger Operators Whose Spectrum Features a Half-Line and a Cantor Set, to appear in *Journal of Functional Analysis*.

Conference and Seminar Talks

1. Conference "Topological Methods in Dynamics and Related Topics", Nizhny Novgorod, Russia, December 2020, Zoom talk.
2. Semi-annual Workshop in Dynamical Systems and Related Topics, Pennsylvania State University, October 30 - November 1, 2020, Zoom talk.
3. Dynamical System Seminar, Moscow State University, May 2020, Zoom talk.
4. 37th Almost Annual Western States Mathematical Physics Meeting, Irvine, March 2020.
5. Mini-course "Dynamically Defined Cantor Sets", Nizhny Novgorod, Russia, February 2020.
6. Special Session on Dynamical Systems and Ergodic Theory, AMS Sectional Meeting, Riverside, November 9–10, 2019.
7. Special Session on Topics in Operator Theory, AMS Sectional Meeting, Riverside, November 9–10, 2019.
8. Special Session on Fractal Geometry, Dynamical Systems, and Related Topics, AMS Sectional Meeting, Riverside, November 9–10, 2019.
9. Workshop "Random Matrix Products and Anderson Localization", BIRS, Banff, Canada, September 2019.
10. Dynamical Systems Seminar talk, University of Chicago, April 2019.
11. 2020 Vision for Dynamics, Memorial Conference for Anatole Katok, Bedlewo, Poland, August 2019.
12. Special Session on Analysis and Geometry of Fractals, AMS Sectional Meeting, Riverside, November 4–5, 2017.
13. Special Session on Random and Deterministic Dynamical Systems, AMS Sectional Meeting, Riverside, November 4–5, 2017.
14. Workshop "Spectral Structures and Topological Methods in Mathematical Quasicrystals" in Mathematisches Forschungsinstitut Oberwolfach, Germany, October 1–7, 2017.
15. Seminaire de geometrie analytique, Institut de recherche mathematique de Rennes, France, September 21, 2017.
16. The second Mathematical Congress of the Americas (section "Fractal Geometry and Dynamical Systems"), July 2017, Montreal, Canada.
17. International Conference "Anosov Systems and Modern Dynamics" dedicated to the 80th anniversary of Dmitry Anosov, December 2016, Steklov Mathematical Institute, Moscow, Russia.
18. The 27th Fall meeting of the Semi-annual Workshop in Dynamical Systems and Related Topics, Penn State University, October 2016.
19. Texas Analysis and Mathematical Physics Symposium, Rice University, Houston, October 2016.
20. Conference "Between Dynamics and Spectral Theory", Simons Center for Geometry and Physics, Stony Brook, June 2016.
21. Conference "Fractal Geometry, Hyperbolic Dynamics and Thermodynamical Formalism", ICERM Semester Program on "Dimension and Dynamics", Providence, March 2016.

22. Mini-course "Non-hyperbolic Ergodic Measures" (6 lectures), Simons Semesters in Banach Center, Warsaw, Poland, November 2015.
23. Special Session on Spectral Theory of Ergodic Schrödinger Operators and related models, Fall Western Sectional AMS Meeting, Fullerton, October 2015.
24. Workshop "Spectral Properties of Quasicrystals via Analysis, Dynamics, and Geometric Measure Theory", Casa Matemática Oaxaca, Mexico, September 2015.
25. Workshop "Dynamische Systeme" in Mathematisches Forschungsinstitut Oberwolfach, Germany, 19 Jul - 25 Jul 2015.
26. Conference "Almost-periodic and other ergodic problems" in Isaac Newton Institute for Mathematical Sciences, UK, April 10, 2015.
27. Workshop "Dynamical versus Diffraction Spectra in the Theory of Quasicrystals" in Mathematisches Forschungsinstitut Oberwolfach, Germany, 30 Nov - 6 Dec 2014.
28. The 25th Fall meeting of the Semi-annual Workshop in Dynamical Systems and Related Topics, October 16 - 19, 2014, Penn State University.
29. Mini-course "Selected applications of hyperbolic dynamics" (6 lectures), Summer School in Dynamical Systems, Maryland, August 2014.
30. Talks in sessions "Entropy and Statistical Properties for Smooth Dynamics" and "Dynamical Systems and Spectral Theory", The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Madrid, Spain, July 2014.
31. USA-Uzbekistan Conference on Analysis and Mathematical Physics, Fullerton, May 2014.
32. Invited Address, AMS Western Spring Sectional Meeting University of New Mexico, Albuquerque, April 2014.
33. Probability Seminar, Arizona State University, March 2014.
34. Rice University, Colloquium, November 2013.
35. Dynamical Systems Seminar, Stony Brook University, October 2013.
36. Mathematical Physics Seminar, Caltech, November 2013.
37. Special Session on Fractal Geometry, Dynamical Systems, and Mathematical Physics, Western Fall Sectional AMS Meeting, University of California, Riverside, November 2013.
38. Dynamical Systems Seminar, Moscow State University, Moscow, Russia, September 6, 2013.
39. Dynamical Systems Seminar, Chebyshev Laboratory, St. Petersburg State University, Russia, September 3, 2013.
40. Colloquium, Chebyshev Laboratory, St. Petersburg State University, Russia, September 2, 2013.
41. Mini-course (4 lectures) in the frame of the "Workshop on Dynamical Methods in Spectral Theory of Quasicrystals", UC Irvine, May 16 - 19, 2013.
42. Advanced School and Workshop in Real and Complex Dynamics, Trieste, Italy, May 2013.
43. Spring 2013 Meeting of the "Workshop on Dynamical Systems and Related Topics", April 4-7, 2013, Department of Mathematics, University of Maryland

44. Mini-course (5 lectures), II Brazilian School on Dynamical systems (Ribeirao Preto- Sao Carlos), Brazil, October 29 - November 3, 2012.
45. Dynamical Systems Seminar, Cornell University, September 21, 2012.
46. The 9th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Orlando, July 2012 (two talks in different sessions).
47. IAMIS Summer Workshop "The Applications of Fractal Geometry & Dynamical Systems Theory to Biology & Physics", UC Riverside, June 20, 2012.
48. Conference "Periodic Orbits in Dynamical Systems", Erwin Schrödinger Institute, Vienna, Austria, May 21, 2012.
49. Colloquium, Center for Dynamical Systems and Nonlinear Studies, Georgia Tech, Atlanta, April 9, 2012.
50. Functional Analysis Seminar, SISSA, Italy, March 22, 2012.
51. Spectral Theory Brown Bag Seminar, Rice University, December 12, 2011.
52. Conference "Symplectic Dynamics", Institute for Advanced Studies, Princeton, October 11, 2011.
53. Conference "Almost periodic order: spectral, dynamical, and stochastic approaches", Banff, Canada, September 29, 2011.
54. The Sixth International Conference on Differential and Functional Differential Equations, Moscow, Russia, August 16, 2011.
55. Conference "Beyond Uniform Hyperbolicity 2011", CIRM, Luminy, June 8, 2011.
56. Mathematical Physics & Dynamical Systems Seminar, UC Riverside, May 26, 2011.
57. Caltech, Mathematical Physics Seminar, January 26, 2011.
58. Workshop "Dynamics of Trace Maps and Applications to Spectral Theory" in Mathematisches Forschungsinstitut Oberwolfach, Germany, January 18, 2011.
59. Dynamical Systems Seminar, UT Austin, November 3, 2010.
60. Dynamical Systems Seminar, USC, October 25, 2010.
61. Dynamical Systems Seminar, Moscow State University, Moscow, Russia, September 17, 2010.
62. Dynamical Systems Seminar, University of Lisbon, Portugal, September 3, 2010.
63. Dynamical Systems Seminar, Stony Brook University, March 24, 2010.
64. Ergodic Theory and Dynamical Systems Seminar, UC Irvine, Jan. 29, Feb. 19, March 5, 2010.
65. Dynamical Systems Seminar, Centro de Matematica da Universidade do Porto, Portugal, December 18, 2009.
66. Analysis Seminar, CalState Fullerton, December 10, 2009.
67. Texas Geometry and Topology Conference, Rice University, Houston, November 6-8, 2009.

68. Center for Dynamics and Geometry Colloquium, Penn State University, September 23, 2009.
69. International Workshop on Global Dynamics beyond Uniform Hyperbolicity, Beijing University, August 10-21, 2009, Beijing, China.
70. Conference "Advances in Low Dimensional Dynamics", Stony Brook University, June 13, 2009.
71. Dynamical Systems Seminar, Penn State University, March 18, 2009.
72. Ergodic Theory and Topological Dynamics Seminar, UC Irvine, February 3, 2009.
73. Mathematical Physics Seminar, UC Irvine, January 29, 2009.
74. Geometry and Analysis Seminar, Rice University, January 21, 2009.
75. Differential Geometry Seminar, UC Irvine, October 21, 2008.
76. Dynamical Systems Seminar, USC, October 20, 2008.
77. Ergodic Theory and Topological Dynamics Seminar, UC Irvine, October 7, 2008.
78. Dynamical Systems Seminar, Maryland University, September 11, 2008.
79. The Fifth International Conference on Differential and Functional Differential Equations, Moscow, Russia, August 18, 2008.
80. School and Workshop on Dynamical Systems, The Abdus Salam International Center for Theoretical Physics, Trieste, Italy, July 10, 2008.
81. Semester for Hyperbolic Dynamical Systems, Erwin Schrödinger Institute for Mathematical Physics, Vienna, Austria, June 2008 (2 talks).
82. 7th AIMS International Conference on Dynamical Systems, Differential Equations and Applications, University of Texas at Arlington, May 19, 2008.
83. Departmental Colloquium, California State University - Northridge, April 30, 2008.
84. Geometry and Analysis Seminar, Rice University, April 25, 2008.
85. Mathematical Physics Seminar, UC Irvine, April 4, 2008.
86. 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").
87. Ergodic Theory and Topological Dynamics Seminar, UC Irvine, November 2007.
88. Dynamical Systems Seminar, Moscow State University, September 2007.
89. Steklov Mathematical Institute, International Conference "Analysis and Singularities" dedicated to the 70th anniversary of Vladimir Arnold, Moscow, August 2007.
90. Caltech, Mathematical Physics Seminar, May 2007.

Extracurriculum activities related to teaching

- Participation in the Pedagogical Group (organized in 2019/2020 by M.Foreman)
- Organization and leading the meetings on “Even and Odd”, “Graphs”, “Length, Area, Volume”, “Functions and Their Graphs”, “Polynomials” – the level 2 Math Circle sessions in Winter 2018.
- Graduate Students Colloquium talk, UC Irvine, April 2017.
- Presentation "Aperiodic Tilings", in the frame of the Series of Undergraduate Talks in Mathematics, UC Irvine, December 2013.
- Presentation "How to make fractals at home", Undergraduate Mathematical Club, UC Irvine, February 2013.
- Presentation "How to measure a Cantor set", Undergraduate Mathematical Club, UC Irvine, February 2011.
- Supervision of a summer research project for a new graduate student (Daniel Akech) in the frame of AGEPS Summer Competitive Edge Summer Program, summer 2010.
- Presentation "Fractals", Undergraduate Mathematical Club, UC Irvine, April 2010.
- "Inspirational" talk at the Mathcounts (a national enrichment program aimed at middle school students), February 2010.
- 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), 2010/2011 (student - John Nguyen), 2014/2015 (student - Ali Uzman), 2015/2016 (students - Sang Truong, Nelson Moll), 2016/2017 (student - Sang Truong), 2018/2019 (student - Jaaziel Lopez De La Luz), and 2019/2020 (student - Justin Jacob), "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

- Member of Editorial Board, Journal of Fractal Geometry (JFG).
- Hiring Committee, Department of Mathematics, 2019/2020.
- Project reviewer, on behalf of the Evaluation Committee of the “Mathématiques et Informatique théorique” program of the French National Research Agency.
- Project reviewer, on behalf of the Foundation for the Advancement of Theoretical Physics and Mathematics “BASIS” (Russia), Summer 2020.
- Steering committee, 2013/2014.
- Undergraduate Studies committee, 2012/2013, 2016/2017, 2019/2020.
- Organizer of the "Workshop on Dynamical Methods in Spectral Theory of Quasicrystals", UC Irvine, May 16 - 19, 2013.
- Organizer of the "Ergodic Theory and Dynamical Systems" seminar.
- Session chair, conference "Between Dynamics and Spectral Theory", Simons Center for Geometry and Physics, Stony Brook, June 2016.

- Session chair (in sessions "Entropy and Statistical Properties for Smooth Dynamics" and "Dynamical Systems and Spectral Theory", The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Madrid, Spain, July 2014.
- Session chair, The 9th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Orlando, July 2012.
- Session chair, conference "Almost periodic order: spectral, dynamical, and stochastic approaches", Banff, Canada, September 2011.
- Session chair, The Sixth International Conference on Differential and Functional Differential Equations, Moscow, Russia, August 2011.
- Session chair, conference "Beyond Uniform Hyperbolicity 2011", CIRM, Luminy, June 2011.
- The Advisory/Comprehensive Analysis Exam committee (chair), Fall 2011, Spring 2012, Spring 2016.
- The Graduate Admission and Advisory committee, 2007/2008, 2009/2010, 2011/2012, and 2014/2015.
- The undergraduate specialization/concentration requirements committee, 2011/2012.
- "Mathcounts" committee, 2010/2011.
- The Complex Analysis Qualifying Exam committee (chair), 2007/08, 2009/2010, 2012/2013, 2015, 2020.
- The Complex Analysis Qualifying Exam committee, 2008/09.
- The Real Analysis Qualifying Exam committee, 2014.
- Graduate Studies committee, 2008/09 and 2013/2014.
- Colloquium committee, 2008/09.
- Session chair, The Fifth International Conference on Differential and Functional Differential Equations, Moscow, Russia, August 2008.
- Session chair, Dynamics Beyond Uniform Hyperbolicity International Conference, June 2017, Provo, UT.
- Scientific advisor for PhD students (William Wood, Fernando Quintino, Yuki Takahashi, Alberto Takase, William Yessen, Scott Northrup, May Mei).
- Member of Advancement to Candidacy committee in Math (Sidney Tsang, Sean Xue, Chris Marx, Anh Le, Rajinder Mavi, Zachary Faubion, Rui Han, Shiwen Zhang, Xiaowen Zhu), ESS (Kathe Todd-Brown), Engineering (Marco Maggia), and Chemistry (Shane Flynn) Departments
- Member of PhD Defence committee in Math (Andrew-David Bjork, Sean Xue, Zachary Faubion, Rajinder Mavi, Chris Marx, Sidney Tsang, Shiwen Zhang, Rui Han) and Engineering (Marco Maggia) Departments
- Member of PhD Defence committee, Chair (May Mei, William Yessen, Scott Northrup, Yuki Takahashi)