

CURRICULUM VITAE

Dr. habil. PAVEL GUREVICH

Date of birth: 29.11.1977

Mail (work): Institute of Mathematics I
Free University Berlin
Arnimallee 3, 14195 Berlin

Website: <http://dynamics.mi.fu-berlin.de/persons/gurevich.php>

E-Mail: gurevich@math.fu-berlin.de

RESEARCH INTERESTS

Partial differential equations, Hysteresis and multiscale dynamics, Dynamical systems, Nonlocal problems and functional differential equations

PROFESSIONAL APPOINTMENTS

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| 2015-present | Principal Investigator within the DFG Collaborative Research Center 910 "Control of self-organizing nonlinear systems". Project: "Reaction-diffusion systems: hysteresis and nonlocal interactions".

Heisenberg fellow (with von Kaven Prize) in the Free University Berlin. |
| 2013-2014 | Project leader of a junior research group "Reaction-diffusion systems: hysteresis and nonlocal interactions" in the Free University Berlin, within the DFG Collaborative Research Center 910 "Control of self-organizing nonlinear systems". |
| 2010-2013 | Researcher in the group of Prof. Dr. Fiedler "Nonlinear Dynamics," Free University of Berlin. Project SFB 910 "Control of self-organizing nonlinear systems". |
| 2008-2010 | Researcher in the group of Prof. Dr. Fiedler "Nonlinear Dynamics," Free University of Berlin. Project SFB 555 "Complex nonlinear processes". |
| 2005-2008 | Researcher at the Dept. of Differential Equations and Mathematical Physics, Peoples' Friendship University of Russia. |
| 2006-2008 | Humboldt fellow at the University of Heidelberg; group of Prof. Dr. Willi Jäger. |
| 2004-2005 | Associate Professor at the Dept. of Differential Equations, Moscow Aviation Institute. |
| 2003-2004 | Senior lecturer at the Dept. of Differential Equations, Moscow Aviation Institute. |
| 2002-2003 | Assistant at the Dept. of Differential Equations, Moscow Aviation Institute. |

EDUCATION and ACADEMIC DEGREES

- 2010 Free University of Berlin: Recognition of the degree “Doctor of physical-mathematical sciences” as an equivalent of “Habilitation” and the conferment of the title “Privatdozent”.
- 2009 Peoples' Friendship University of Russia, Doctor of physical-mathematical sciences (Habilitation). The thesis has been acknowledged by VAK (Higher Attestation Commission) as the best one in Russia in the field of mathematics in 2008.
- Thesis:* “Elliptic problems with nonlocal boundary conditions and Feller semigroups”.
Adviser: Prof. Dr. Skubachevskii.
Reviewers/Opponents: Prof. Dr. Mikhail Agranovich, Prof. Dr. Vladimir Kondratiev, Corresponding member of RAS Prof. Dr. Stanislav Pohozaev.
Leading Institute: Moscow Power Engineering Institute (Prof. Dr. Yulii Dubinskii).
- 2002 Lomonosov Moscow State University, Candidate of Sciences in Mathematics (Ph.D.)
- Thesis:* “Solvability and asymptotics of solutions for nonlocal elliptic boundary value problems”.
Adviser: Prof. Dr. Alexander Skubachevskii.
Reviewers/Opponents: Prof. Dr. Leonid Volevich, Prof. Dr. Andrei Shkalikov.
Leading Institute: Steklov Institute of Mathematics (corresponding member of RAS, Prof. Dr. Lev Kudryavtsev).
- 2000 Graduated (with honors) from the Moscow Aviation Institute, Master in Applied Mathematics, specialty – Differential Equations
- Thesis:* “Solvability of boundary-value problems for some differential-difference equations”.
Adviser: Prof. Dr. Alexander Skubachevskii.
Reviewer/Opponent: Prof. Dr. Mikhail Goldman.

AWARDS and FELLOWSHIPS

- 2014: von Kaven Prize (DFG)
- 2013: Heisenberg fellowship (DFG); taken from January 2015
- 2012: A co-author of a textbook in a series which was acknowledged in 2012 to be the best series published in the framework of the Innovative Educational Projects in Russia
- 2009: Habilitation thesis acknowledged by VAK (Higher Attestation Commission) as the best in Russia in the field of mathematics in 2008
- 2006-2008: Research Fellowship of Alexander von Humboldt Foundation. Research at the University of Heidelberg, 2006-2008; by invitation of Prof. Dr. Willi Jäger
- 2005-2006: President Grant for Young Scientists (Russia)
- 2005: Academia Europaea Prize for Young Scientists
- 2003-2004: INTAS Grant for Young Scientists. Research visit at the University of Zurich, 2003, and the University of La Rochelle, 2004

ORGANIZATION OF CONFERENCES

1. International Workshop “Control of Self-Organizing Nonlinear Systems”. Lutherstadt Wittenberg, Germany (2017). **Program Committee.**
2. International conference “Patterns of Dynamics” in honor of Bernold Fiedler’s 60th birthday. Berlin, Germany (2016). **Co-chairman.**
3. Mini-symposium at the 7th European Congress of Mathematics, Berlin, Germany (2016). **Co-chairman.**
4. International Conference on Control of Self-Organizing Nonlinear Systems. Heringsdorf, Usedom, Germany (2016). **Program Committee.**
5. 8th International Workshop on Multi-Rate Processes & Hysteresis, 3rd International Workshop on Hysteresis and Slow-Fast Systems (MURPHYS-HSFS-2016). Barcelona, Spain (2016). **Co-chairman.**
6. International Workshop “Control of Self-Organizing Nonlinear Systems”. Lutherstadt Wittenberg, Germany (2015). **Program Committee.**
7. Summer school: Multi-Rate Processes and Hysteresis – Hysteresis and Slow-Fast Systems (MURPHYS-HSFS-2015). Levico Terme, Italy (2015). **Co-chairman.**
8. International Conference on Control of Self-Organizing Nonlinear Systems, Rostock-Warnemünde, Germany (2015). **Program Committee.**
9. Seventh International Conference on Differential and Functional Differential Equations, Moscow (2014). **Organizing Committee.**
10. 7th International Workshop on Multi-Rate Processes & Hysteresis, 2nd International Workshop on Hysteresis and Slow-Fast Systems (MURPHYS-HSFS-2014). Berlin, Germany (2014). **Co-chairman.**
11. International Workshop on Hysteresis and Slow-Fast Systems (HSFS-2011), Wittenberg, Germany (2011). **Co-chairman.**
12. Sixth International Conference on Differential and Functional Differential Equations, Moscow (2011). **Organizing Committee.**
13. Fifth International Conference on Differential and Functional Differential Equations, Moscow (2008). **Organizing Committee.**
14. Fourth International Conference on Differential and Functional Differential Equations, Moscow (2005). **Organizing Committee.**
15. Third International Conference on Differential and Functional Differential Equations, Moscow (2002). **Organizing Committee.**
16. International Conference on Differential and Functional Differential Equations, Moscow (1999). **Organizing Committee.**

PARTICIPATION IN CONFERENCES

- 2016 Annual Conference of the German Mathematical Society (DMV) and the Society for Applied Mathematics and Mechanics (GAMM), Braunschweig, Germany.
International Multidisciplinary Workshop MURPHYS-HSFS-2016. Barcelona, Spain.
7th European Congress of Mathematics, Berlin, Germany
International conference "Patterns of Dynamics" in honor of Bernold Fiedler's 60th birthday. Berlin, Germany.
- 2015 Annual Conference of the German Mathematical Society (DMV), Hamburg, Germany.
SIAM Conference on Applications of Dynamical Systems. Snowbird, Utah, USA.
Summer school: Multi-Rate Processes and Hysteresis – Hysteresis and Slow-Fast Systems (MURPHYS-HSFS-2015), Levico Terme, Italy.
- 2014 Joint International Multidisciplinary Workshop MURPHYS-HSFS-2014. Berlin, Germany.
Seventh International Conference on Differential and Functional Differential Equations, Moscow, Russia
- 2013 Fourth International Conference "Functional Spaces. Differential Operators. General Topology..." dedicated to the 90th anniversary of L.D. Kudryavtsev. Moscow, Russia.
9th International Symposium on Hysteresis Modeling and Micromagnetics – HMM-2013 Taormina, Italy.
Equadiff 13. Praha, Czech Republic.
- 2012 Sixteenth Harzseminar "Formation of Structures in Chemistry and Biology." Hahnenklee, Germany.
Annual Conference of the German Mathematical Society (DMV), Saarbrücken, Germany.
International Conference on Delayed Complex Systems, Palma de Mallorca, Spain.
International workshop "Coupled networks, patterns and complexity". Berlin, Germany.
Oberwolfach Workshop "Dynamics of Patterns". Oberwolfach, Germany.
- 2011 Seventeenth Annual Symposium GERMAN-AMERICAN KAVLI FRONTIERS OF SCIENCE Arnold and Mabel Beckman Center, Irvine, California, USA.
8th International Symposium on Hysteresis Modeling and Micromagnetics – HMM-2011 Levico, Italy
International Workshop "Nonlinear Elliptic Differential Equations, Bifurcation and Local Dynamics of the Parabolic Systems", Marburg, Germany.
Sixth International Conference on Differential and Functional Differential Equations, Moscow, Russia.
Workshop on Control of Self-Organizing Nonlinear Systems, Wittenberg, Germany.
Annual Conference of the German Mathematical Society (DMV), Cologne, Germany.

- International Workshop on Hysteresis and Slow-Fast Systems, Wittenberg, Germany.
- 2010 Eighth AIMS International Conference on “Dynamical Systems, Differential Equations and Applications.” Dresden, Germany.
- Fifth International Workshop on “Multi-Rate Processes and Hysteresis in Mathematics, Physics, Engineering and Information Sciences”. Pecs, Hungary.
- 2009 Thirteenth Harzseminar “Formation of Structures in Chemistry and Biology.” Hahnenklee, Germany.
- 2008 Oberwolfach Workshop “Dynamics of Patterns.” Oberwolfach, Germany.
- Fifth International Conference on Differential and Functional Differential Equations. Moscow.
- Oberwolfach Workshop “Nonlinear Evolution Equations”. Oberwolfach, Germany.
- Third International Conference “Functional Spaces. Differential Operators. General Topology...” dedicated to the 85th anniversary of L.D. Kudryavtsev.
- 2006 International Congress of Mathematicians, Madrid.
- International Conference “Tikhonov and Contemporary Mathematics,” Moscow, the Lomonosov Moscow State University.
- 2005 Fourth International Conference on Differential and Functional Differential Equations. Moscow.
- International Conference and Workshop “Function Spaces, Approximation Theory, Nonlinear Analysis” dedicated to the centennial of Sergei Mikhailovich Nikolskii, Moscow, the Steklov Mathematical Institute.
- 2004 International Conference “Differential Equations and Related Topics” dedicated to I.G. Petrovskii. Moscow, MSU.
- 2003 International workshop in honour of Prof. Dr. Vsevolod. Solonnikov "Directions on Partial Differential Equations". Ferrara, Italy.
- International Conference “Nonlinear Partial Differential Equations”. Alushta, Ukraine.
- International Conference “Kolmogorov and Contemporary Mathematics” in commemoration of the centennial of A.N. Kolmogorov. Moscow.
- 2002 International Conference on Differential and Functional Differential Equations. Moscow.
- International Conference “Functional Differential Equations and Applications”. Beer-Sheva, Israel, Ben Gurion University of the Negev.
- 2001 12th Crimean Autumn Mathematical School-Symposium on Spectral and evolutionary problems. Sevastopol. 20-minute communication.
- International Conf. “Differential Equations and Related Topics” dedicated to the Centenary Anniversary of I.G. Petrovskii. Moscow, MSU.
- 2000 11th Crimean Autumn Mathematical School-Symposium on Spectral and evolutionary problems. Sevastopol.
- 1999 10th Crimean Autumn Mathematical School-Symposium on Spectral and

evolutionary problems. Sevastopol.

International Conference on Differential and Functional Differential Equations. Moscow.

1998 9th Crimean Autumn Mathematical School-Symposium on Spectral and evolutionary problems. Sevastopol.

1997 8th Crimean Autumn Mathematical School-Symposium on Spectral and evolutionary problems. Sevastopol.

FURTHER SCIENTIFIC ACTIVITY

- Co-editor of the Proceedings of the international conference “Patterns of Dynamics 2016”. To be published in the series “Springer Proceedings in Mathematics & Statistics”.
- Referee for the journals: “Applicable Analysis”, “Complex Variables and Elliptic Equations”, “Computers and Mathematics with Applications”, “Contemporary Mathematics. Fundamental Directions”, “Discrete and Continuous Dynamical Systems – Series A”, “Discrete and Continuous Dynamical Systems – Series B”, “Functional Analysis and Its Applications”, “Functional Differential Equations”, “Journal of Functional Analysis”, “Journal of Mathematical Fluid Mechanics”, “Journal of Mathematical Sciences”, “Mathematica Bohemica”, “Mathematical Methods in the Applied Sciences”, “Proceedings of the Steklov Institute of Mathematics”, “SIAM Journal on Control and Optimization”, and “Zeitschrift für angewandte Mathematik und Physik ZAMP”.
- Referee for the foundations: “Austrian Science Fund (FWF)”, “Czech Science Foundation”, and “United States – Israel Binational Science Foundation”.
- Co-organizer (jointly with Prof. Dr. Bernold Fiedler and Dr. Matthias Wolfrum) of the regular joint FU Berlin – WIAS Berlin “Oberseminar Nonlinear Dynamics”.
- Regular substitute of Prof. Dr. Bernold Fiedler at the biannual meetings of the board of the German-Russian Interdisciplinary Science Center (G-RISC).