

# CURRICULUM VITAE

**Dr. habil. PAVEL GUREVICH**

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## RESEARCH INTERESTS

Machine learning, Dynamical systems, Differential equations, Hysteresis and multiscale dynamics, Nonlocal problems and functional differential equations

## PROFESSIONAL APPOINTMENTS

- 2019-present      Principal Investigator in the DFG project: "Dynamical systems approach to robust reconstruction of probability distributions of observed data"
- 2015-present      Heisenberg fellow (with von Kaven Prize) at the Free University Berlin.
- 2015-2018        Principal Investigator within the DFG Collaborative Research Center 910 "Control of self-organizing nonlinear systems". Project: "Reaction-diffusion systems: hysteresis and nonlocal interactions".
- 2013-2014        Project leader of a junior research group "Reaction-diffusion systems: hysteresis and nonlocal interactions" at 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. 9th International Workshop on Multi-Rate Processes & Hysteresis, 3rd International Workshop on Hysteresis and Slow-Fast Systems (MURPHYS-HSFS-2018). Barcelona, Spain (2018). **Co-chairman.**
2. International Workshop "Control of Self-Organizing Nonlinear Systems". Lutherstadt Wittenberg, Germany (2017). **Program Committee.**
3. International conference "Patterns of Dynamics" in honor of Bernold Fiedler's 60<sup>th</sup> birthday. Berlin, Germany (2016). **Co-chairman.**
4. Mini-symposium at the 7th European Congress of Mathematics, Berlin, Germany (2016). **Co-chairman.**
5. International Conference on Control of Self-Organizing Nonlinear Systems. Heringsdorf, Usedom, Germany (2016). **Program Committee.**
6. 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.**
7. International Workshop "Control of Self-Organizing Nonlinear Systems". Lutherstadt Wittenberg, Germany (2015). **Program Committee.**
8. Summer school: Multi-Rate Processes and Hysteresis – Hysteresis and Slow-Fast Systems (MURPHYS-HSFS-2015). Levico Terme, Italy (2015). **Co-chairman.**
9. International Conference on Control of Self-Organizing Nonlinear Systems, Rostock-Warnemünde, Germany (2015). **Program Committee.**
10. Seventh International Conference on Differential and Functional Differential Equations, Moscow (2014). **Organizing Committee.**
11. 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.**
12. International Workshop on Hysteresis and Slow-Fast Systems (HSFS-2011), Wittenberg, Germany (2011). **Co-chairman.**
13. Sixth International Conference on Differential and Functional Differential Equations, Moscow (2011). **Organizing Committee.**
14. Fifth International Conference on Differential and Functional Differential Equations, Moscow (2008). **Organizing Committee.**
15. Fourth International Conference on Differential and Functional Differential Equations, Moscow (2005). **Organizing Committee.**
16. Third International Conference on Differential and Functional Differential Equations, Moscow (2002). **Organizing Committee.**
17. International Conference on Differential and Functional Differential Equations, Moscow (1999). **Organizing Committee.**

## FURTHER SCIENTIFIC ACTIVITY

- Mathematics representative in the Steering Committee of the German-Russian Interdisciplinary Science Center (G-RISC).
- Co-editor of the Proceedings of the international conference “Patterns of Dynamics 2016”. 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”.