



ACADEMIC TEACHER PROFESSIONAL EXPERIENCE

DOCTORAL SCHOOL OF WROCŁAW UNIVERSITY OF SCIENCE AND TECHNOLOGY

1. Basic information

Name, surname:	Oleksii (Aleksei) Chechkin
Grade / Title:	DSc, Prof.
Scientific discipline	matematyka / mathematics
Faculty:	W13 Wydział Matematyki / Faculty of Pure and Applied Mathematics
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Link to home page and/or research profiles (Google Scholar, ResearchGate, etc.)	https://scholar.google.de/citations?user=M_WlwEAAAAJ&hl=en

2. Publication record

Up to 10 most important papers published over the period of previous 10 years.

No.	Description (authors, publication title, journal / conference, DOI)	Publication year
1.	Michał Balcerek, Samudrajit Thapa, Krzysztof Burnecki, Holger Kantz, Ralf Metzler, Agnieszka Wyłomańska, Aleksei Chechkin, Multifractional Brownian motion with telegraphic, stochastically varying exponent, <i>Physical Review Letters</i> 134, 197101.	2025
2.	H Woszczek, A Wyłomańska, A Chechkin, Riemann–Liouville fractional Brownian motion with random Hurst exponent, <i>Chaos: An Interdisciplinary Journal of Nonlinear Science</i> 35 (2)	2025
3.	V Sposini, S Nampoothiri, A Chechkin, E Orlandini, F Seno, F Baldovin, Being heterogeneous is advantageous: Extreme Brownian non-Gaussian searches, <i>Physical Review Letters</i> 132 (11), 117101	2024
4.	Qing Wei, Wei Wang, Hongwei Zhou, Ralf Metzler, and Aleksei Chechkin, Time-fractional Caputo derivative versus other integrodifferential operators in generalized Fokker-Planck and generalized Langevin equations. <i>Physical Review E</i> 108 , 024125.	2023
5.	K Rozier, A Chechkin, VE Bondarenko, Role of asymmetry and external noise in the development and synchronization of oscillations in the analog Hopfield neural networks with time delay, <i>Chaos: An Interdisciplinary Journal of Nonlinear Science</i> 33 (12), 123137.	2023
6.	C Di Bello, AV Chechkin, AK Hartmann, Z Palmowski, R Metzler, Time-dependent probability density function for partial resetting dynamics, <i>New Journal of Physics</i> 25 (8), 082002	2023
7.	Attilio L. Stella, Aleksei Chechkin, Gianluca Teza, Anomalous Dynamical Scaling Determines Universal Critical Singularities. <i>Physical Review Letters</i> 130 , 207104 (2023)	2023
8.	Elisabeth Lemaitre, Igor M Sokolov, Ralf Metzler, and Aleksei V Chechkin, Non-Gaussian displacement distributions in models of heterogeneous active particle dynamics. <i>New J. Phys.</i> 25 , 013010.	2023



9.	J.M. Miotto, S. Pigolotti, A.V. Chechkin, and S. Roldán-Vargas, Length Scales in Brownian yet Non-Gaussian Dynamics, <i>Phys. Rev. X</i> 11 , 031002.	2021
10.	A.V. Chechkin, F. Seno, R. Metzler, I.M. Sokolov, Brownian yet Non-Gaussian Diffusion: From Superstatistics to Subordination of Diffusing Diffusivities. <i>Phys. Rev. X</i> 7 , 021002.	2017

3. Projects and grants

List of the most important 5 projects/grants with basic description including: title, source(s) of funding, name of the call, role in the project (e.g., principal investigator).

1.	Role in the project (e.g., principal investigator, work package leader, etc.)	Head Core of Excellence Max Planck Institute of Microstructure Physics
	Project title	Advanced Plasma Technology for Spintronic and Energy Materials
	Sources of funding	Bundesministerium für Bildung und Forschung, BMBF, 2,5M Euro
	Name of the call	German-Ukrainian centres of excellence
	Implementation period	2024-2028 (4 years)
2.	Role in the project (e.g., principal investigator, work package leader, etc.)	Personal grant recipient
	Project title	Heterogeneous random processes in Complex Systems: from mathematical models to Data Analytics
	Sources of funding	NAWA
	Name of the call	ULAM Programme
	Implementation period	2021-2023 (2 years)
3.	Role in the project (e.g., principal investigator, work package leader, etc.)	Personal grant recipient
	Project title	Fractional kinetic equations for complex systems
	Sources of funding	EC
	Name of the call	Marie Curie International Incoming Fellowship
	Implementation period	2009-2011 (2 years)
4.	Role in the project (e.g., principal investigator, work package leader, etc.)	Head of Ukrainian team in the network project
	Project title	Feasibility of Air Borne Optical Detectors for Analysis of Traffic Flow in Mega Cities
	Sources of funding	INTAS (The International Association for the Promotion of Co-operation with Scientists from the New Independent States of the Former Soviet Union)
	Name of the call	Call 2003
	Implementation period	2005-2007 (2 years)
5.	Role in the project (e.g., principal investigator, work package leader, etc.)	Head of Ukrainian team in the network project
	Project title	Anomalous Non - Linear Random Motions Governed by Fractional Kinetic Equations



	Sources of funding	INTAS (The International Association for the Promotion of Co-operation with Scientists from the New Independent States of the Former Soviet Union)
	Name of the call	INTAS Call 1999
	Implementation period	2001-2003 (2 years)

4. International experience

Brief description of international cooperation and experience (e.g., research stays, cooperation with foreign entities, coordination or participation in international projects or programmes, keynote speeches and presentations delivered at renowned international conferences, visiting professor stays, invited lectures).

No.	Description	Year(s)
1.	- DAAD (Deutscher Akademischer Austauschdienst) research stipendium for visiting scientists (3 months) (Kennziffer: A/01/06033); - (Referat 322 PKZ: A/08/01718); - (Referat 322 A/13/0373); - (Funding programme/-ID: Bilateral Exchange of Academics, (57210233), Personal ref. no.: 91615016)	2001-2002 2008 2013 2016
2.	DFG (Deutsche Forschungsgemeinschaft) research stipendium for visiting scientists (3 months): - (Kennziffer: 436 UKR 17/11/05);- - 2007 (GZ: GO 332/17-1 AOBJ: 539521).	2005 2007
3.	International Mathematical Union Berlin Einstein Foundation Programme senior fellowship, 4 months	2014

5. Experience in teaching doctoral students

Brief description of experience in teaching doctoral students (e.g., courses in doctoral schools and PhD studies, summer/winter schools for doctoral students, tutorials, trainings, etc.).

No.	Description	Year(s)
1.	Visiting professorship, TU Dresden, Institute of Mathematical Stochastic, PhD lecture course "Introduction to the Theory of Anomalous Transport"	2014
2.	Visiting professorship, Univ. Padua, Dept. Physics and Astronomy, PhD lecture course "Advanced Course on Stochastic Processes and Applications"	2016
3.	PhD lecture course Wrocław University of Science and Technology "Stochastic Processes in Natural Sciences"	2022

6. List of supervised doctoral students

List of all supervised doctoral students that defended the PhD including: name of the student, dissertation title, year of awarding PhD.

No.	Name, surname	Dissertation title	Year of awarding PhD
1.	Oleksii Slyusarenko	Levy flights in potential well	2012
2.	Dmitrii Surkov	Stationary states of Levy flights	2014



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7. Prizes and awards

The most important national and international prizes and awards related to research, development and teaching activities.

No.	Description	Year
1.	Award from the National Scholarship Programme of the Slovak Republic for the Support of Mobility of University Teachers and Researchers in 2006/2007	2007
2.	Max Planck Institute for Physics of Complex Systems (Dresden), senior research fellowships (6 months each): - January 2013 – June 2013; - February 2014 – July 2014; - January 2015 - June 2015, Member of Advanced Study Group	2013 2014 2015
3.	Personal Soros grant for scientists of the former USSR	1993

8. Other significant achievements

Information on other significant achievements related to research, development and teaching activities.