

Sergei Balakin

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Caulfield East, VIC 3145

RESEARCH INTERESTS

Industrial Organization, Energy Economics
Applied Theory, Market Design, Game Theory, Matching Theory, Information Economics, Networks

PROFESSIONAL EXPERIENCE

<i>Research Fellow (Level B)</i>	Nov 2025 – current time
<i>Research Fellow (Level A)</i>	Jul 2022 – Nov 2025
Monash University, Faculty of Business and Economics, Impact Labs	
<i>Lecturer (Assistant Professor)</i>	Sep 2011 – Jun 2014
Novosibirsk State University, Department of Mechanics and Mathematics	
<i>Lecturer (Assistant Professor)</i>	Nov 2008 – Jun 2011
Novosibirsk State Technical University	
<i>Research Fellow</i>	Jan 2007 – Dec 2010
Sobolev Institute of Mathematics SB RAS	

TEACHING EXPERIENCE

<i>Independent Instructor</i>	May 2018 – May 2022
Principles of Microeconomics. Department of Economics, OSU	
<i>Teaching assistant</i>	Aug 2017 – May 2018
Principles of Macroeconomics. Department of Economics, OSU	
<i>Lecturer</i>	Sep 2008 – Sep 2012
Mathematics. Department of Economics, NSU	
Analysis and Differential equations. Department of Automation and Computer Science, NSTU	
<i>Teaching assistant</i>	Sep 2006 – Jun 2014
Mathematics. Department of Economics, NSU	
Linear algebra. Department of Economics and Department of Natural Sciences, NSU	
Differential equations. Department of Economics, NSU	
Analysis. Department of Natural Sciences, NSU	
Analysis, Differential equations, Theory of functions of a complex variable, NSTU	

EDUCATION

<i>PhD Degree, Economics</i>	March 2022
Ohio State University, Columbus, Ohio	
<i>Master of Research, Economics</i>	June 2015
European University Institute, Florence, Italy	
<i>PhD Degree, Mathematics</i>	June 2006
Novosibirsk State University, Novosibirsk, Russia	
<i>Bachelor's & Master's Degree, Mathematics</i>	June 2003
Novosibirsk State University, Novosibirsk, Russia	

PUBLICATIONS

- (2025) “Storage Games”, *RAND Journal of Economics*, (with Guillaume Roger)
- (2025) “Dynamic Trading Strategies for Storage”, *Journal of Economic Dynamics and Control*, 176, 105110 (with Guillaume Roger)

WORKING PAPERS

- “Preemption Equilibrium in a Storage Game” (with Guillaume Roger) **R&R JME**
- “Modeling Trading over Time” (with Guillaume Roger)
- “Storage Cycles” (with Guillaume Roger)
- “Application Costs as a Screening Instrument in Decentralized Matching”
- “Decentralized Dynamic Matching with Signaling”
- “Iterated Regret Minimization in Games with Nonoptimal Nash Equilibria”

WORK IN PROGRESS

- “Optimal Subsidies in Dynamic Entry Games” (with Dan Levin and Jaromír Kovářík)
- “Merchant Storage over the Long Horizon” (with Janosch Rieger and Guillaume Roger)
- “Renewables and Storage: Trading without Nets” (with Guillaume Roger)
- “Information Flows on Network Structures” (with Dan Levin and Jaromír Kovářík)
- “Congestion on the Bottom: Matching with Limited Capacity”

INVITED TALKS (in bold) AND CONFERENCES IN ECONOMICS

- 2026: **Jinan University, Keio University, Kyoto University** (all scheduled)
- 2025: **KRTK**(* – online); Monash Energy Camp, Melbourne; **HSE***; ESWC, Seoul; APIOC2025, Brisbane
- 2024: AETW2024, Melbourne; PET2024, Lyon; EAERE2024, Leuven; SING19, Besançon; **University of Sydney**; ESAM2024, Melbourne
- 2023: **University of Melbourne**; WEAL, Melbourne; CoED-2023, Girona; **University of the Basque Country**; SING18, Messina; ESAM2023, Sydney; **Melbourne IO Workshop**
- 2022: **University of Manitoba***; **Université libre de Bruxelles***; APIOC2022, Sydney
- 2021: MEA, Cleveland*; GTM2021, St. Petersburg*; SING16, Granada*; Midwest Economic Theory Conference, Autumn 2021, East Lansing
- 2020: CMID20, Klagenfurt*
- 2019: MEA, St. Louis; Midwest Economic Theory Conference, Spring 2019, Bloomington; CED-2019, Budapest; SING15, Turku; **HSE – St. Petersburg**

SELECTED PUBLICATIONS IN MATHEMATICS

- (2013) Stochastic Model of Digit Transfer in Computing. *Numerical Analysis and Applications*, 6(1), 71–76 (with L. Savelyev).
- (2012) *Finite Markov Chains and Runs: Theory and Applications*. LAP LAMBERT Academic Publishing. Saarbrücken. 150 pages (with L. Savelyev, in Russian).
- (2012) Some Applications of the Stochastic Theory of Runs. *Journal of Applied and Industrial Mathematics*, 15(3), 111–123, 2012 (with L. Savelyev, in Russian).
- (2011) A Combinatorial Approach to Calculation of Moments of Characteristics of Runs in Ternary Markov Sequences. *Discrete Mathematics and Applications*, 21(1), 47–67 (with L. Savelyev).
- (2009) Special Operator Equations. *Journal of Applied and Industrial Mathematics*, 3(2), 1–16 (with M.M. Lavrentyev and L. Savelyev).
- (2008) Matrix Operator Equations. *Journal of Applied and Industrial Mathematics*, 2(4), 1–23 (with M.M. Lavrentyev and L. Savelyev).
- (2008) Characteristics of Runs in Ternary Markov Chains. *Herald of the Syktyvkar University*, 1(8), 3–14 (in Russian).

- (2004) The joint distribution of the number of ones and the number of 1-runs in binary Markov sequences. *Discrete Mathematics and Applications*, 14(4), 353–372 (with L. Savelyev).
- (2003) Covering runs in binary Markov sequences. *Discrete Mathematics and Applications*, 13(2), 111–139 (with L. Savelyev and B. Khromov).

ACADEMIC GRANTS AND SCHOLARSHIPS

The Monash Energy Institute Travel Award	Dec 2022
Departmental Citation for Excellence in Teaching, OSU	Sep 2019
JMCB Grant for Graduate Student Research, OSU	Aug 2018 – Aug 2019
Department of Economics Scholarship, OSU	Aug 2016 – Aug 2017
Russian Ministry of Education and Science Grant, EUI	Aug 2014 – Aug 2016
Member of Russian Foundation for Basic Research project 10-01-00384 "Integral equations and their applications to tomography"	Jan 2010 – Dec 2012
Member of a project of a Council for Grants of the President of the Russian Federation (Scientific Schools Support) 1440.2008.1	Jan 2008 – Dec 2008
Member of Russian Foundation for Basic Research project 06-01-00422 "Regularization of operator equations"	Jan 2006 – Dec 2008
The Vladimir Potanin Foundation Scholarship	Jan 2003 – Jun 2003

COMPUTER SKILLS

Mathematica, MATLAB, Python (including pandas, numpy, matplotlib, scipy and scikit packages), LaTeX

REFERENCES

Professor **Guillaume Roger**
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Monash University
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Professor **Dan Levin**
Department of Economics
The Ohio State University
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Professor **Paul J. Healy**
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Professor **Yaron Azrieli**
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