Sergei Balakin

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Caulfield East, VIC 3145

RESEARCH INTERESTS

Microeconomic Theory, Matching Theory, Market Design, Game Theory, Information Economics, Energy Economics

PROFESSIONAL EXPERIENCE

Research Fellow   July 2022 – current time
Monash University, Faculty of Business and Economics, Impact Labs

Lecturer (Assistant Professor)   Sep 2011 – Jun 2014
Novosibirsk State University, Department of Mechanics and Mathematics

Lecturer (Assistant Professor)   Nov 2008 – Jun 2011
Novosibirsk State Technical University

Research Fellow   Jan 2007 – Dec 2010
Sobolev Institute of Mathematics SB RAS

TEACHING EXPERIENCE

Independent Instructor   May 2018 – May 2022
Principles of Microeconomics. Department of Economics, OSU

Teaching assistant   Aug 2017 – May 2018
Principles of Macroeconomics. Department of Economics, OSU

Lecturer   Sep 2008 – Sep 2012
Mathematics. Department of Economics, NSU
Analysis and Differential equations. Department of Automation and Computer Science, NSTU

Teaching assistant   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

PhD Degree, Economics
The Ohio State University, Columbus, Ohio   March 2022

Master of Research, Economics
European University Institute, Florence, Italy   June 2015

PhD Degree, Mathematics
Novosibirsk State University, Novosibirsk, Russia   June 2006

Bachelor's & Master's Degree, Mathematics
Novosibirsk State University, Novosibirsk, Russia   June 2003

WORKING PAPERS

- "Storage Games" (with Guillaume Roger)
- "Near-optimal Storage Strategies in Electricity Markets" (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

- "Information Flows on Network Structures" (with Dan Levin and Jaromír Kovářík)
- "Congestion on the Bottom: Matching with Limited Capacity"
- "Dynamic Choice with Noisy Information: Would Overconfidence Help?"

INVITED TALKS

- 2023: University of Melbourne, University of the Basque Country, Melbourne IO Workshop
- 2022: University of Manitoba, Université libre de Bruxelles
- 2019: HSE – St. Petersburg

CONFERENCES IN ECONOMICS

- AETW2024: Australasian Economic Theory Workshop. Melbourne, Australia — Feb 8 – 9, 2024
- ESAM2023: 2023 Econometric Society Australasian Meeting. Sydney, Australia — Aug 7 – 10, 2023
- SING18: 18th European Meeting on Game Theory. Messina, Italy — Jun 26 – 28, 2023
- CoED-2023: Conference on Economic Design. Girona, Spain — Jun 15 – 17, 2023
- WEAI's 17th International Conference. Melbourne, Australia — Apr 12 – 15, 2023
- Asia Pacific Industrial Organisation Conference 2022. Sydney, Australia — Dec 9 – 11, 2022
- Midwest Economic Theory Conference, Autumn 2021. East Lansing, MI, USA — Oct 8 – 10, 2021
- SING16: 16th European Meeting on Game Theory. Granada, Spain (online) — Jul 1 – 3, 2021
- GTM2021: 15th International Conference on Game Theory and Management. St. Petersburg, Russia (online) — Jun 23 – 25, 2021
- Annual Meeting of the Midwest Economics Association. Cleveland, OH, USA (online) — Mar 22 – 26, 2021
- CMID20: Conference on Mechanism and Institution Design. Klagenfurt, Austria (online) — Jun 11 – 13, 2020
- SING15: 15th European Meeting on Game Theory. Turku, Finland — Jul 2 – 4, 2019
- CED-2019: Conference on Economic Design. Budapest, Hungary — Jun 12 – 14, 2019
- Midwest Economic Theory Conference, Spring 2019. Bloomington, IN, USA — May 31 – Jun 2, 2019
- Annual Meeting of the Midwest Economics Association. St. Louis, MO, USA — Mar 15 – 17, 2019

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).

SELECTED CONFERENCES IN MATHEMATICS

• 11th Russian Symposium on Applied and Industrial Mathematics. Sochi, Russia	Oct 2010
• 10th International Conference on Probability Theory and Mathematical Statistics. Vilnius, Lithuania	Jun 2010
• International Youth Forum "LOMONOSOV-2010". Moscow, Russia	Apr 2010
• Differential Equations, Function Spaces, Approximation Theory: International Conference Dedicated to Centenary from S.L. Sobolev Birthday. Novosibirsk, Russia	Oct 2008
• 7th International conference "Probabilistic Methods in Discrete Mathematics". Petrozavodsk, Russia	Jun 2008
• 3th International Scientific Congress "GEO-Siberia-2007", Novosibirsk, Russia	Apr 2007
• International Conference on Computational Mathematics, Novosibirsk, Russia	Jun 2004

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

REFERENCES

Professor **Guillaume Roger**
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Department of Economics
The Ohio State University
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Professor **Dan Levin**
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Professor **Yaron Azrieli**
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