

Sergei Balakin

Website: <https://sergeibalakin.com>

Email: sergei.balakin@monash.edu

Phone: (+61)423533188

Address: Monash University
Caulfield Campus, Building H, office 7.73
900 Princes Hwy Service Rd
Caulfield East, VIC 3145

RESEARCH INTERESTS

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

PROFESSIONAL EXPERIENCE

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

TEACHING EXPERIENCE

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

EDUCATION

<i>PhD Degree, Economics</i> The Ohio State University, Columbus, Ohio	March 2022
<i>Master of Research, Economics</i> European University Institute, Florence, Italy	June 2015
<i>PhD Degree, Mathematics</i> Novosibirsk State University, Novosibirsk, Russia	June 2006
<i>Bachelor's & Master's Degree, Mathematics</i> 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 (scheduled)
- 2022: University of Manitoba, Université libre de Bruxelles
- 2019: HSE – St. Petersburg

CONFERENCES IN ECONOMICS

- 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**
 Faculty of Business and Economics
 Impact Labs
 Monash University
 guillaume.roger@monash.edu

Professor **Dan Levin**
 Department of Economics
 The Ohio State University
 (+1) 6146884239
 levin.36@osu.edu

Professor **Paul J. Healy**
 Department of Economics
 The Ohio State University
 (+1) 6142478876
 healy.52@osu.edu

Professor **Yaron Azrieli**
 Department of Economics
 The Ohio State University
 (+1) 6146884140
 azrieli.2@osu.edu