

# Alexey Kushnir

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## CONTACT INFORMATION:

Tepper School of Business,  
Carnegie Mellon University,  
Pittsburgh, PA, 15213, USA  
Phone: 412-268-6079  
E-mail: [alexey.kushnir@gmail.com](mailto:alexey.kushnir@gmail.com)  
Webpage: <http://www.andrew.cmu.edu/user/akushnir/>

## PERSONAL INFORMATION:

Born in Moscow, Russia  
Male, married, one daughter  
Russian citizenship, US Permanent Resident

## RESEARCH INTERESTS:

Economic Theory, Mechanism Design, Optimal Income Taxation, Market Design, Auctions, Network Theory

## EMPLOYMENT:

Associate Professor (without tenure), **Tepper School of Business**, Carnegie Mellon University, USA, 2020 - current  
Assistant Professor, **Tepper School of Business**, Carnegie Mellon University, USA, 2014 - 2020  
Senior Research Associate, **University of Zürich**, ESEI Center for Market Design, Switzerland, 2010 - 2014  
Economist, **Center of Economic and Financial Research**, Russia, May - August 2007

## PUBLICATIONS:

1. *On Equilibrium in Monopolistic Competition with Endogenous Labor* (with Alexander Tarasov and Robertas Zubrickas), **Economics Letters**, 2021
2. *When a Monotone Function Cyclically Monotone?* (with Lev Lokutsievskiy), **Theoretical Economics**, 2021
3. *On Linear Transformations of Intersections* (with Shuo Liu), **Set-Valued and Variational Analysis**, 2020
4. *On the Equivalence of Bayesian and Dominant Strategy Implementation for Environments with Non-Linear Utilities* (with Shuo Liu), **Economic Theory**, 2018
5. *Reduced Form Implementation with Value Interdependencies* (with Jacob Goeree), **Games and Economic Behavior**, 2016
6. *On Sufficiency of Dominant Strategy Implementation in Environments with Correlated Types*, **Economics Letters**, 2015
7. *Preference Signaling in Matching Markets* (with Peter Coles and Muriel Niederle), **AEJ:Micro**, 2013
8. *Harmful Signaling in Matching Markets*, **Games and Economic Behavior**, 2013
9. *On the Equivalence of Bayesian and Dominant Strategy Implementation* (with Alex Gershkov, Jacob K. Goeree, Benny Moldovanu, and Xianwen Shi), **Econometrica**, 2013

## WORKING PAPERS:

10. *Optimal Income Taxation with Endogenous Prices* (with Robertas Zubrickas), 2020
11. *A Geometric Approach to Mechanism Design* (with Jacob Goeree), 2020

## EDUCATION:

**The Pennsylvania State University**, PhD in Economics, 2006 – 2010

**New Economic School**, Master of Arts in Economics (Cum Laude), 2004 – 2006

**Moscow Institute of Physics and Technology**, Master of Science in Physics and Mathematics (with Honors), 2004 – 2006

**Moscow Institute of Physics and Technology**, Bachelor of Science in Physics and Mathematics (with Honors), 2000 – 2004

#### **AWARDS AND FELLOWSHIPS:**

Richard M. Cyert Award for Excellence in Teaching (2018)

Higher School of Economics Best Teacher Award (2018)

Foscolo Fellowship (2014) (€120000 for 2 years) - declined due to Carnegie Mellon position

2nd prize at 2010 European Science Days (€1500) for paper “Harmful Signaling in Matching Markets”

**Pennsylvania State University:** RGSO Dissertation Support Grant (2010), Department of Economics Outstanding Undergraduate Instructor Award (2009), Teaching Assistantship (2006-09), Summer Fellowship (2007), Graduate Scholar Award (2006)

**New Economic School:** Best Student Paper Award (2006), Fellowship (2004-06)

**Moscow Institute of Physics and Technology:** Academic Council Fellowship (2003), Mayor-of-Moscow Fellowship (2002-04)

#### **PROFESSIONAL ACTIVITIES:**

##### **Invited talks and conference presentations:**

2021: (scheduled) SAET conference (session organizer)

2020: Tsinghua University (virtual), 2020 CMID conference (virtual)

2019: Princeton University, 2019 ASSA Meeting, 2019 SEA Conference

2018: Duke/University of North Carolina, Copenhagen Business School, New Economic School, Higher School of Economics (Moscow), Nazarbaev University, Yandex Research Seminar, Pennsylvania Economic Theory Conference, 29th International Conference on Game Theory in Stony Brook, IX Moscow International Conference on Operations Research

2017: Harvard/MIT, Johns Hopkins University, University of Pittsburgh, Moscow State University (Math Department), CIREQ Montréal Microeconomic Theory Conference

2016: University of California, Berkeley, New York University, Vanderbilt University, Frankfurt School of Finance and Management, University of Bern, University of Cologne, University of Lausanne, University of Zurich, Decentralization Conference at Brown, Pennsylvania Economic Theory Conference; North American Econometric Society Meeting, European Econometric Society Meeting

2015: University of Wisconsin-Madison, Ohio State University, Penn State University, University of Pittsburgh, New Economic School, HSE-Saint-Petersburg, HSE-Moscow, International Conference European Meeting on Game Theory

2014: Caltech, Carnegie Mellon University, University of Rochester, UC Davis, Sciences Po, University of Pittsburgh, New Economic School, HEC Paris, Bocconi University, University of Leicester, NAWM of Econometric Society, The Cowles Foundation conference

2013: Northwestern University, University of Michigan-Ann Arbor, University of Toronto, Ecole Polytechnique, University of Western Ontario, University of York, University of St. Andrews, University of Montreal, University of Saint-Galen, Humboldt University, 13<sup>th</sup> SAET Conference in Paris, UECE Lisbon Meeting

2012: University College London, Paris School of Economics, North American Econometric Society Meeting, 4th World congress of the Game Theory Society, European Econometric Society Meeting, NES 20th Anniversary Conference

2011: Maastricht University Market Design Workshop, Matching in Practice (Berlin)

2005-10: UCLA, Boston College, University of Zurich, University of Autonomia, New Economic School, Higher School of Economics, Max Plank Institute (Bonn), Fifth PhD Presentation Meeting, ADRES Conference (Lyon), 14th Coalition Theory Network Workshop, Midwest Economic Theory Meeting, Society of Economic Design, SUNY Stony Brook, XIX New Economic School Conference, XLVIII Moscow Institute of Physics and Technology Conference

**Referee:**

American Economic Review, Econometrica, Review of Economic Studies, Journal of Economic Theory, Theoretical Economics, American Economic Journal: Micro, Games and Economic Behavior, Economic Theory, Journal of European Economic Association, International Economic Review, Management Science, Mathematics of Operations Research, Operations Research, International Journal of Game Theory, Journal of Economic Behavior & Organization, Journal of Mathematical Economics, Economics Letters, European Economic Review, Journal of Economics & Management Strategy, Scandinavian Journal of Economics, Southern Economic Journal, Mathematical Social Sciences, Review of Economic Design, The B.E. Journal of Theoretical Economics, Elsevier

**Visiting scholar:**

Higher School of Economics and New Economic School, Moscow, August–December 2018  
Northwestern Center for Economic Theory, October 2013;  
Harvard Business School, March–May 2010, August–September 2009;  
Boston College, March–May 2009

**Seminar organization:**

Economic theory seminar - University of Zurich (2011-2012), Carnegie Mellon University (2016-2017)

**Committees:**

Faculty Recruiting Committee, Tepper School of Business (2015-2016, 2017-2018)  
Best Undergraduate Thesis Committee - Moscow State University, Department of Economics (2016, 2017)

**OTHER RESEARCH CONTRIBUTIONS:**

*A Note on Lavi, Mu'alem, and Nisan (2009)* (with Shuo Liu), 2014  
*Solutions manual for Vijay Krishna's 'Auction Theory' book (2<sup>nd</sup> ed.)* (with Jun Xiao), 2009  
*Orphans and children deprived from parental care* (with E. Zhuravskaya and I. Fedukin), CEFIR, 2007  
*Collective action problem in revolutions*, **NES Best Student Paper**, 2006

**TEACHING EXPERIENCE:**

**Teaching related achievements:** Online Instructor Certificate (2010), HBP Case Method Teaching Seminar (2015)

**Tepper School of Business (2014-2021):** Principles of Economics (U), Within the Firm: Managing through Incentives (U), Game Theory (G), Microeconomics II (G), Information Design (G)

**New Economic School and Higher School of Economics (2018):** Machine Learning (U)

**University of Zurich (2010-2014):** Microeconomics for Research Students Part II (G), Mechanism Design (G), Economics Foundations of Finance (G)

**The Pennsylvania State University (2006-2010):** Introductory Econometrics (U), Introductory Microeconomics Analysis and Policy (U, online course), Advanced Microeconomics (G), Microeconomics (G), Political Economics (U), Economics of the Corporation (U)

**New Economic School (2005-2006):** Auctions (G), Theory of Economic Reforms (G), Math for Economists (G)

**Moscow Institute of Physics and Technology (2004-2005):** Stochastic Processes (U)

**LANGUAGES:**

Russian – native; English – fluent; German – beginner

**REFERENCES:**

**Marek Pycia**  
Professor of Economics,  
University of Zurich, Switzerland  
[marek.pycia@econ.uzh.ch](mailto:marek.pycia@econ.uzh.ch)  
+41 44 634 2006

**Vijay Krishna**  
Professor of Economics,  
The Pennsylvania State University, United States,  
[vkrishna@psu.edu](mailto:vkrishna@psu.edu), +1 814 863-8543

**Larry Samuelson**

A. Douglas Melamed Professor of Economics

Yale University, United States,

[larry.samuelson@yale.edu](mailto:larry.samuelson@yale.edu)

+1 203 432 6737