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# Alexander Matros

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## Professional Experience

January 2017	to Present	Professor, University of South Carolina
2012	to Present	Professor, Lancaster University Management School
August 2013 – 2016		Associate Professor (with tenure), University of SC
2010 – July 2013		Associate Professor (without tenure), University of SC
2003 – 2010		Assistant Professor, University of Pittsburgh
2001 – 2003		Research Fellow, University College London

## Short Visits

06/2008, 08/2007, 08/2005	Economics Discipline, School of Economics and Political Science, University of Sydney
06/2008	School of Economics, University of Adelaide
10/2007	Math & Statistics Department, University of Nevada, Reno
10/2008, 01/2007, 10/2004	Department of Economic Theory, University of Bonn
04-05/2001	ESRC Center for Economic Learning and Social Evolution Department of Economics, University College London

## Education

2001	Ph.D. Economics, Stockholm School of Economics (Sweden)
1998	Ph.D. Mathematics, Moscow State University (Russia)
1997	M.A. Economics, New Economic School, Moscow (Russia)
1992	M.Sc. Mathematics, Moscow State University (Russia)

## Research Interests

(Evolutionary, Experimental) Game Theory, Contests, IO

## Publications

### Economics:

“All-pay auctions versus lotteries as provisional fixed-prize fundraising mechanisms: Theory and evidence.” (Joint with John Duffy)

*Journal of Economic Behavior & Organization* 192, December 2021, Pages 434 - 464.

“Online cheating amid COVID - 19.” (Joint with Eren Bilen)

*Journal of Economic Behavior & Organization* 182, February 2021, Pages 196 - 211.

- “Shipwrecks and treasure hunters.”  
(Joint with Nicolas de Roos, Vladimir Smirnov, and Andrew Wait)  
*Journal of Economic Dynamics and Control*, Volume 90, May 2018, Pages 259-283.
- “Lloyd Shapley and Chess with Imperfect Information.”  
*Games and Economic Behavior*, Volume 108, March 2018, Pages 600-613.
- “Stochastic Asymmetric Blotto Games: An Experimental Study.”  
(Joint with John Duffy)  
*Journal of Economic Behavior & Organization* 139, July 2017, Pages 88-105.
- “Duplicative search.” [Lead Article] (Joint with Vladimir Smirnov).  
*Games and Economic Behavior*, Volume 99, September 2016, Pages 1-22.
- “Tullock Contests May Be Revenue Superior to Auctions in a Symmetric Setting.”  
(Joint with Alex Possajennikov)  
*Economics Letters*, Volume 142, May 2016, Pages 74-77.
- “Coordination in a Changing Environment.”  
(Joint with Scott Moser)  
*Journal of Economic Behavior & Organization* 112, April 2015, Pages 64-84.
- “Stochastic Asymmetric Blotto Games: Some New Results.”  
(Joint with John Duffy).  
*Economics Letters*, Volume 134, Issue 3, June 2015, Pages 4-8.
- “Bounded rationality and group size in Tullock contests: Experimental evidence.”  
(Joint with Wooyoung Lim and Ted Turocy)  
*Journal of Economic Behavior & Organization* 99, March 2014, Pages 155-167.
- “On the Use of Fines and Lottery Prizes to Increase Voter Turnout.”  
(Joint with John Duffy).  
*Economics Bulletin* 34, 2014, Pages 966-975.
- “Sad-Loser Contests.”  
*Journal of Mathematical Economics*, Volume 48, Issue 3, May 2012, Pages 155-162.
- “Altruistic Versus Egoistic Behavior in a Public Good Game.”  
*Journal of Economic Dynamics and Control*, Volume 36, Issue 4, April 2012, Pages 642-656.
- “Matching Auction with Winner’s Curse and Imperfect Financial Markets.”  
*Economics Letters*, Volume 115, Issue 3, June 2012, Pages 500-503.
- “Competitive Behavior in Market Games: Evidence and Theory.”  
(Joint with John Duffy and Ted Temzelides).  
*Journal of Economic Theory*, Volume 146, Issue 4, July 2011, Pages 1437-1463.

“Optimal Mechanisms for an Auction Mediator.”  
(Joint with Andriy Zapechelnyuk)  
*International Journal of Industrial Organization*, Volume 29, Issue 4, July 2011, Pages 426-431.

“Contests with a Stochastic Number of Players.”  
(Joint with Wooyoung Lim)  
*Games and Economic Behavior*, Volume 67, Issue 2, November 2009, Pages 584-597.

“A Blotto Game with Incomplete Information.”  
(Joint with Tim Adamo)  
*Economics Letters*, Volume 105, Issue 1, October 2009, Pages 100-102.

“Tullock's Contest with Reimbursements.”  
(Joint with Daniel Armanios)  
*Public Choice*, Volume 141, Issue 1-2, October 2009, 49-63.

“Optimal Fees in Internet Auctions.”  
(Joint with Andriy Zapechelnyuk)  
*Review of Economic Design*, Volume 12, Number 3, September 2008, Pages 155–163.

“Long-Run Price Competition.” [Lead Article]  
(Joint with Prajit Dutta and Jörgen Weibull)  
*RAND Journal of Economics*, Volume 38, Issue 2, Summer 2007, Pages 291-313.

“Rent-seeking with asymmetric valuations: Addition or deletion of a player.”  
*Public Choice*, Volume 129, Issue 3-4, December 2006, 369-380.

“A Note on CEO Compensation, Elimination Tournaments and Bankruptcy Risk.”  
(Joint with Guido Friebel)  
*Economics of Governance*, Volume 6, Issue 2, July 2005, 105-111.

“(All) Equilibria in a Class of Bidding Games.”  
(Joint with Gian Luigi Albano)  
*Economics Letters*, Volume 87, Issue 1, April 2005, Pages 61-66.

“Stochastic Imitation in Finite Games.”  
(Joint with Jens Josephson)  
*Games and Economic Behavior*, Volume 49, Issue 2, November 2004, Pages 244-259.

“Clever Agents in Adaptive Learning.”  
*Journal of Economic Theory*, Volume 111, Issue 1, July 2003, Pages 110-124.

“Stochastic Stability and Equilibrium Selection in Games,” Published Doctoral Dissertation,  
Stockholm School of Economics, 2001.

### **Mathematics:**

“The asymptotical solution of a boundary problem for a singular perturbed equation of mixed type,” *Vestnik Moscow State University. Mathematics and Mechanics*, 4, (1997), 3-7.

“The asymptotical solution of a singular perturbed equation of mixed type with variable coefficients,” *Vestnik Chelyabinsk State University*, 1, (1996), 224-226.

“The asymptotical solution of a singular perturbed equation of mixed type,” *Differential Equations*, V. 31(11), (1995), 1933.

### **Revised/Resubmitted Papers**

“Local Public Good Provision Competition.”

(Joint with Liwen Chen and Yue Liu)

Revision requested by *Economic Inquiry*

“Which Entry Fee: That Is the Question.”

(Joint with Zehra Valencia)

Revision requested by *Review of Economic Design*

### **Submitted Papers**

“Contests on Networks.”

(Joint with David Rietzke)

“The Superstar Effect: Evidence from Chess”

(Joint with Eren Bilen)

“Public Good Provision: A Tale of Tax Evasion and Corruption.”

(Joint with Chowdhury Mohammad Sakib Anwar and Sonali SenGupta)

“Tax Evasion, Embezzlement and Public Good Provision.”

(Joint with Chowdhury Mohammad Sakib Anwar and Sonali SenGupta)

“Search without looking.”

(Joint with Natalia Ponomareva, Vladimir Smirnov, and Andrew Wait)

### **Work in Progress**

“Competing Local Public Goods Provision Mechanisms: an Experimental Study.”

(Joint with Liwen Chen and Yue Liu)

“Asymmetric Contests.”

(Joint with Pulkit Nigam)

“Lotteries with Financially Constrained Buyers.”

“Elimination Tournaments where Players Have Fixed Resources.”

## **Research Grants and Awards**

2021-2022	\$3,800.00 – Moore School Research Grant Program “Cheating and Moral Issues: An Experiment,” University of South Carolina
2021-2021	\$1,200.00 – Moore School Research Grant Program “Superstar effect in time pressure: Evidence from chess,” University of South Carolina
2020-2021	\$4,860.00 – Moore School Research Grant Program “Online cheating: An experimental investigation,” University of South Carolina
2019-2020	\$4,600.00 – Moore School Research Grant Program “Decisions in Society,” University of South Carolina
2019-2020	\$2,918.00 – Moore School Research Grant Program “Superstar Effect: Evidence from Chess,” University of South Carolina
2018-2019	\$5,000.00 – Moore School Research Grant Program “New contests: Experimental and field study,” University of South Carolina
2017-2018	\$5,000.00 – Moore School Research Grant Program “How do People make Risky Decisions: Experimental Study,” University of South Carolina
2013-2014	\$3,200.00 – Moore School Research Grant Program “How to Design Small Lotteries: Experimental Study,” University of South Carolina
2011-2012	\$6,400.00 – Moore School Research Grant Program “Better than Average Effect,” University of South Carolina
2010-2011	\$5,320.00 – Moore School Research Grant Program “Matching Auction,” University of South Carolina
2006-2009	\$5,335.00 - Central Research Development Fund award “Lotteries or Auctions?” University of Pittsburgh
2004-2007	\$8,835.00 - Central Research Development Fund award “Lotteries and Their Applications” University of Pittsburgh
2001-2003	600,000.00 SEK (\$75,000) Research Grant J 01-54 “Auctions, Internet and Game Theory,” Jan Wallanders and Tom Hedelius Foundation, Stockholm. (Did NOT use.)
1998-2001	Research Grant from Jan Wallanders and Tom Hedelius Foundation, Stockholm

## **Seminars**

<u>2019</u> :	University of Central Florida (USA); University of Manchester (UK).
<u>2018</u> :	Nazarbayev University (Kazakhstan).
<u>2017</u> :	Virginia Tech University (USA).
<u>2016</u> :	University of Oregon (USA), Durham University (UK), University of Manchester (UK).
<u>2015</u> :	Queen’s University, Belfast (Northern Ireland).
<u>2014</u> :	University of North Carolina, Charlotte (USA).
<u>2013</u> :	Drexel University (USA); University of South Carolina (USA).
<u>2012</u> :	Higher School of Economics, Moscow (Russia); University of East Anglia (UK); University of Nottingham (UK); University of Iowa (USA); University of South Carolina (USA); Lancaster University (UK); University of Exeter (UK); University of Glasgow (twice) (UK).
<u>2011</u> :	Lancaster University (UK).

- 2010: University of Missouri-Columbia (USA); Yeshiva University (USA); University of South Carolina (twice) (USA); Villanova School of Business (USA).
- 2009: Florida State University (USA); Higher School of Economics, Moscow (Russia); New Economic School, Moscow (Russia); University of Nevada, Reno (USA).
- 2008: Higher School of Economics, Moscow (Russia); University of Sydney (Australia); University of Auckland (New Zealand); University of Adelaide (Australia); University of California, Davis (USA); University of Nevada, Reno (USA).
- 2007: Higher School of Economics, Moscow (Russia); CEFIR/NES, Moscow (Russia); Math & Statistics Dept. Colloquium, University of Nevada, Reno (USA); University of New South Wales (Australia); University of Adelaide (Australia); University of Bonn (Germany).
- 2006: Industrial Engineering Department, University of Pittsburgh (USA); Math & Statistics Dept. Colloquium, University of Nevada, Reno (USA); CEFIR/NES, Moscow (Russia).
- 2005: Australian National University (Australia); University of New South Wales (Australia); University of Melbourne (Australia); University of Sydney (Australia).
- 2004: Pennsylvania State University (USA); Indiana University (USA); University of Bonn (Germany); Virginia Polytechnic Institute and State University (USA).
- 2003: University of Pittsburgh (USA); University College London (UK); University of Illinois at Urbana-Champaign (USA); McGill University (Canada); Texas A&M University (USA).
- 2002: University of Exeter (UK); University College London (UK).
- 2001: New Economic School, Moscow (Russia); University College London (UK); University of Essex (UK); Royal Holloway, University of London (UK); University of North Carolina at Chapel Hill (USA).
- 2000: New Economic School, Moscow (Russia).

## **Conference and Workshop Presentations**

2020: ChessTech 2020

2019: 89-th Southern Economic Association Meeting, Fort Lauderdale (USA),  
30-th International Conference on Game Theory, Stony Brook, NY (USA);  
Fair Play in Economics and Politics Workshop in Honour of Steven Brams, King's College (UK); Centralised vs Decentralised forms of social organization and public good provision, University of Bath (UK).

2018: 88-th Southern Economic Association Meeting, Washington, DC (USA),  
29-th International Conference on Game Theory, Stony Brook, NY (USA).

2017: 28-th International Conference on Game Theory, Stony Brook, NY (USA).

2016: Contests: Theory and Evidence, Norwich (UK); York Annual Symposium on Game Theory (UK); 2-nd Lancaster Game Theory Conference (UK).

2015: 26-th International Conference on Game Theory, Stony Brook, NY (USA); York Annual Symposium on Game Theory (UK).

2014: 84-th Southern Economic Association Meeting, Atlanta (USA), Midwest Economics Association Conference, Evanston (USA); York Annual Symposium on Game Theory (UK).

2013: 24-th International Conference on Game Theory, Stony Brook, NY (USA); Tournaments, Contests and Relative Performance Evaluation, Fresno Center of the University of California, Merced, (USA).

2012: New Economic School 20th Anniversary Conference, Moscow (Russia); 23-th International Conference on Game Theory, Stony Brook, NY (USA); International Economic Science Association Conference, New York University, NY (USA); Contests, Mechanisms & Experiments Conference, Exeter (UK), Royal Economic Society Annual Conference, Cambridge (UK).

2011: 81-th Southern Economic Association Meeting, Washington, DC (USA), 22-th International Conference on Game Theory, Stony Brook, NY (USA); 9th Annual International Industrial Organization Conference, Boston (USA); Tournaments, Contests and Relative Performance Evaluation, North Carolina State University Poole College of Management, (USA).

2009: 20-th International Conference on Game Theory, Stony Brook, NY (USA); Workshop on Behavioral Game Theory, Stony Brook, NY (USA).

2008: Tournaments, Contests and Relative Performance Evaluation, North Carolina State University College of Management, (USA); Third World Congress of the Game Theory Society, Chicago (USA).

2007: Workshop on “Contests and Tournaments,” hosted and organized by the Social Science Research Center Berlin (WZB, Germany); 18-th International Conference on Game Theory, Stony Brook, NY (USA).

2006: 17-th International Conference on Game Theory, Stony Brook, NY (USA); 2006 Canadian Economic Theory Conference, Toronto, (Canada).

2005: 16-th International Conference on Game Theory, Stony Brook, NY (USA).

2004: 15-th International Conference on Game Theory, Stony Brook, NY (USA); Workshop on Mechanism Design with Budget Constraints, Stony Brook, NY (USA); Second World Congress of the Game Theory Society, Marseille (France); Annual Meeting of the Society for Economic Dynamics, Villa La Pietra, Florence (Italy); North American Summer Meeting of the Econometric Society, Brown University (USA).

2003: VIII-th Spring Meeting of Young Economists, Leuven (Belgium).

2002: The State of Economics and of Transition: Honoring 10 years of the New Economic School, Moscow (Russia); 17-th Annual Congress of the European Economic Association, Venice (Italy).

2001: The First Annual International Conference, Russia 2015: A Long Term Strategy, Moscow (Russia).

2000: Evolutionary Game Theory Conference, Odense (Denmark);  
11-th International Conference on Game Theory, Stony Brook, NY (USA).

1999: 10-th International Conference on Game Theory, Stony Brook, NY (USA).

## **Teaching Experience**

### University of South Carolina

Graduate: Introduction to Mathematical Methods (Summer 2011, Summer 2014, Summer 2015, Summer 2016, Summer 2017, Summer 2018, Summer 2019, Summer 2020, Summer 2021)  
Mathematical Methods (Summer 2013)  
Advanced Microeconomics (Fall 2010, Fall 2018)  
Special Topics in Microeconomics (Spring 2011, Fall 2011, Spring 2013, Spring 2014, Spring 2016)  
Game Theory (Spring 2015, Spring 2017)  
Negotiations (Spring 2020)

Undergraduate: Intermediate Microeconomics (Fall 2010, Fall 2011, Fall 2013, Fall 2014, Spring 2016, Spring 2017, Fall 2018, Spring 2020, Spring 2021)  
Game Theory in Economics (Fall 2013, Fall 2014, Spring 2018, Spring 2021)

### Lancaster University Management School

Graduate: Mathematics for Economists (Fall 2012)

Undergraduate: Econ 228: Game Theory (Fall 2012)

### University of Pittsburgh

Graduate: Mathematical Methods of Economic Analysis (Fall 2008, Fall 2009)  
Introduction to Mathematical Methods (Summer 2008, Summer 2009)  
Lotteries and Their Applications (Fall 2007)  
Contests, Tournaments, and Their Applications (Spring 2007)  
Intro to Game Theory 2 (Spring 2007)  
Topics in Microeconomics (Spring 2004, Fall 2005)  
Research Seminar (Fall 2004, Fall 2008)



Undergraduate: Intro Game Theory (Spring 2005, Spring 2006, Fall 2006, Spring 2008, Fall 2009)  
 Intermediate Microeconomics (Fall 2003)

2001-2002 TA: Game Theory, University College London (UK)  
 1999-2001 TA: Mathematics, Stockholm School of Economics (Sweden)  
 1993-1995 TA: Mathematics, Department of Mathematics, Moscow State University (Russia)

### **Independent Studies with Graduate Students**

#### University of Pittsburgh

Yong Sui (Summer 2004), Helen Lafferty (Summer 2004), Virginie Masson (Fall 2004, Spring 2005, Summer 2005, Fall 2005, Spring 2006), Ernest Kong-Wah Lai (Spring 2006).

### **Thesis Supervision**

#### University of Pittsburgh

Year	Student	Role	1-st Position
2005	Zhiyong Tu	Reader	Private Sector, China
2006	Xin He	Reader	Central University, Beijing, China
2006	Virginie Masson	Supervisor	University of Adelaide, Australia
2007	Yong Sui	Reader	Shanghai Jiao Tong University, China
2009	Tim Hister	Reader	United Nations

#### University of South Carolina

Year	Student	Role	1-st Position
2018	Liwen Chen	Reader	East China Normal University
2019	Pulkit Nigam	Supervisor	Whitman College
2021	Eren Bilen	Supervisor	Dickinson College

#### Lancaster University Management School

Year	Student	Role	
2020	Sakib Anwar	Co-Supervisor	University of Winchester
2020	Konstantinos Protopappas	Co-Supervisor	University of Innsbruck
2021 (expected)	Harry Rolls	Co-Supervisor	

### **Services**

#### University of South Carolina

Strategic Planning, 2013 –  
 T & P committee, 2013 – 2018; Chair, 2018 –  
 Research Grant Committee, Moore School of Business, 2017 –

Teaching effectiveness committee, Moore School of Business, 2013 – 2017  
Graduate committee, 2014 - 2015  
SACS Assessment, 2010 – 2011

Lancaster University Management School

A member of Junior and Senior Recruiting Committee, 2012

University of Pittsburgh

A member of Micro Junior Recruiting Committee, 2004, 2007  
Chair of Micro Junior Recruiting Committee, 2005, 2006  
A member of the Undergraduate Committee, 2007, 2008

## **Professional Activities**

### **Conference Organizer/Co-organizer**

Lancaster Game Theory Conference: 2015, 2016, 2017, 2018, 2019, 2020(online), 2021.

**Editorial Board** of *Journal of Chess Research*, 2014.

**Referee:** *American Economic Review; American Economic Journal: Microeconomics; B.E. Journal of Theoretical Economics; Bulletin of Economic Research; Econometrica; Economica; Economics Bulletin; Economic Journal; Economics Letters; Economic Theory; Economic Theory Bulletin; European Economic Review; Experimental Economics; Games and Economic Behavior; International Economic Review; International Game Theory Review; International Journal of Economic Theory; International Game Theory Review; International Journal of Game Theory; International Journal of Industrial Organization, Journal of Economic Behavior & Organization; Journal of Economic Surveys; Journal of Economic Theory; Journal of Economics and Management Strategy; Journal of Evolutionary Economics; Journal of Labor Economics; Journal of Law, Economics, & Organization; Journal of Mathematical Economics; Journal of Political Economy; Journal of Public Economics; Public Choice; RAND Journal of Economics; Social Choice and Welfare.*

## **Chess**

International Master, ELO 2361

**Citizenship:**           **USA**