

# MAREK PYCIA

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## EMPLOYMENT

Associate Professor of Economics, UCLA, 2016-present.

Visiting Associate Research Scholar and Visiting Assistant Professor of Economics, Princeton University, 2015-2016.

Assistant Professor of Economics, UCLA, 2008-2016.

Assistant Professor of Economics, Pennsylvania State University, University Park, 2006-2008.

Lecturer in Strategy, 1998-99, and Instructor in Finance, 1997-98, Koźmiński University, Warsaw.

## EDUCATION

Ph.D. in Economics, Massachusetts Institute of Technology, 2006.

Advisor: Bengt Holmstrom. Committee: Glenn Ellison and Robert Gibbons.

M.Phil.-level studies in economics (awarded Diplôme Européen d'Economie Quantitative Approfondie), University of Toulouse 1, 1999-2001. Advisor: Jean Tirole.

Ph.D. in Mathematics, Polish Academy of Sciences, Warsaw, 1998.

First undergraduate degree (magister), *summa cum laude*, University of Warsaw, 1997.

## PUBLICATIONS

**Vouchers for Future Kidney Transplants to Overcome 'Chronological Incompatibility' Between Living Donors and Recipients**, with J. Veale, A. Capron, N. Nassiri, G. Danovitch, H. A. Gritsch, A. Waterman, J. Del Pizzo, J. Hu, S. McGuire, M. Charlton, and S. Kapur. Accepted by *Transplantation*.

**Incentive Compatible Allocation and Exchange of Discrete Resources**, with U. Unver. *Theoretical Economics* 12, 287-329 (January 2017).

Related note: *Theoretical Economics* Online Supplement to “Incentive Compatible Allocation and Exchange of Discrete Resources.”

**Manipulability of Stable Mechanisms**, with P. Chen, M. Egedal, and M. B. Yenmez. *American Economic Journal: Microeconomics* 8(2), 202-214 (May 2016).

**Median Stable Matchings in Two-Sided Markets**, with P. Chen, M. Egedal, and M. B. Yenmez. *Games and Economic Behavior* 97, 64-69 (May 2016).

**Decomposing Random Mechanisms**, with Utku Unver. *Journal of Mathematical Economics* 61, 21–33 (August 2015).

**Demand Reduction and Inefficiency in Multi-Unit Auctions**, with L. Ausubel, P. Cramton, M. Rostek, and M. Weretka. *Review of Economic Studies* 81(4), 1366-1400 (October 2014).

**Outside Options and the Failure of the Coase Conjecture**, with Simon Board, *American Economic Review* 104(2), 656–671 (February 2014).

**Stability and Preference Alignment in Matching and Coalition Formation**, *Econometrica*, 80(1), 323-362 (January 2012).

Related note: *Econometrica Online Supplement to “Stability and Preference Alignment in Matching and Coalition Formation.”*

**Linear Functional Inequalities**, *Dissertationes Mathematicae* 438 (2006), 1-62. (The Polish Mathematical Society's Marek Kuczma Award for the best paper on functional equations, inequalities, and discrete dynamical systems written by a Polish author).

**Czy Kalifornijczycy Są Szczęśliwsi? O Znaczeniu Badań Daniela Kahnemana i Amosa Tversky'ego dla Teorii Ekonomii**, *Journal of Management and Business Administration. Central Europe* 12(1) (January-February 2004).

**Dynamic Inconsistency and Self-Control: A Planner-Doer Interpretation**, with Roland Bénabou, *Economic Letters* 77(3), 419-424 (November 2002).

**A Direct Proof of the Regularity of  $s$ -Convex Functions**, *Aequationes Mathematicae* 61 (2001), No. 1-2, 128-130.

**A Convolution Inequality**, *Aequationes Mathematicae* 57 (1999), No. 2-3, 185-200. (The Polish Mathematical Society's Marek Kuczma Award for one of the three best papers on functional equations, inequalities, and discrete dynamical systems written by a Polish author).

**Z Uśmiechem w XXI Wiek. Wizja Rozwoju Gospodarki Polskiej do Roku 2005**, with W. Koziół and D. Wierzba, *Rzeczpospolita* 257, 7 (26 November 1996).

**Positive Homogeneous Functionals Related to LP-Norms**, with Janusz Matkowski, *Journal of Mathematical Analysis and Applications* 200 (1996), 245-253.

**On the Volume of Convex Hulls of Sets on Spheres**, with R. Latała, *Geometriae Dedicata* 63 (1996), 153-157.

**A Proof of a Conjecture of Bobkov and Houdré**, with Stanisław Kwapien and Walter Schachermayer, *Electronic Communications in Probability* 1 (1996), 7-10.

**Polska w Roku 2010. Projekcja Pesymistyczna**, with P. Dubno, L. Grochowski, J. Karnowski, D. Karwacki, A. Leszczyński, M. Nowakowski, A. Olech, P. Osiecki, M. Tokarski, J. Vogtt, G. Zawada. *Rzeczpospolita* 253, 4-5 (31 October 1995).

**On  $(\alpha, \alpha)$ -Convex Functions**, with Janusz Matkowski, *Archiv der Mathematik* 64 (1995), 132-138.

**Convex-like Inequality, Homogeneity and a Characterization of LP-Norm**, with Janusz Matkowski, *Annales Polonici Mathematici* 60 (1995), 221-230.

**Nierownosci Funkcyjne**, *Delta* 3 (1993), 4-5. (The Polish Mathematical Society's Gold Medal for the Best Research Paper Written by a High-School Student).

**On a General Solution of Finite Order Difference Equations with Constant Coefficients**, *Archivum Mathematicum* 28 (1992), 237-240.

### WORKING PAPERS

**Efficient Bilateral Trade**, with R. Garratt.

One-paragraph abstract published in the *Proceedings of The Third Conference on Auctions, Market Mechanisms and Their Applications*.

**Ordinal Efficiency, Fairness, and Incentives in Large Markets**, with Q. Liu.

Revision requested by the *Review of Economic Studies*.

**Matching with Externalities**, with M. B. Yenmez.

One-paragraph abstract published in the *Proceedings of The Third Conference on Auctions, Market Mechanisms and Their Applications*.

**Pay-As-Bid: Selling Divisible Goods**, with K. Woodward.

Half-page abstract published in the *Proceedings of the ACM Conference on Economics and Computation EC'16*.

**Prices and Efficient Assignments without Transfers**, with A. Miralles.

Revision requested by the *Journal of Economic Theory*.

**A Pseudo-Market Approach to Allocating with Priorities**, with Y. He, A. Miralles, and J. Yen.

Revision requested by the *American Economic Journal: Microeconomics*.

**Large vs. Continuum Assignment Economies**, with A. Miralles.

Revision requested by *Games and Economic Behavior*.

**The Cost of Ordinality**.

**Obvious Dominance and Random Priority**, with P. Troyan.

**Arrovian Efficiency in Allocation of Discrete Resources**, with U. Unver.

New submission requested by the *Journal of Economic Theory*.

**Quantile Stable Mechanisms**, with P. Chen, M. Egedal, and M. B. Yenmez.

Part of this paper is subsumed by “Median Stable Matchings in Two-Sided Markets,” with the same co-authors.

**Non-Existence Result for Matching Games with Transfers**.

**Outside Options in Neutral Discrete Resource Allocation**, with U. Unver.

Revision requested by *Social Choice and Welfare*.

**Directed Search and the Futility of Cheap Talk**, with K. Mirkin.

**Efficient Trade with Interdependent Values**, with P. Wang.

**Swaps on Networks**.

**Trading Cycles for School Choice**, with U. Unver.

**Assignment with Multiple-Unit Demands and Responsive Preferences**.

**Ordinal Efficiency, Fairness, and Incentives in Large Multi-Unit-Demand Assignments**.

**Dynamic Games: The Lack of Robustness**.

**Stochastic vs Deterministic Mechanisms in Multidimensional Screening.**

**TEACHING**

Undergraduate Courses:

Designed Markets, UCLA (**Warren C. Scoville Distinguished Teaching Award**, Winter 2014; the highest student course evaluation among UCLA undergraduate economics courses, Spring 2013).

Fiat Lux Seminar on the Winner's Curse (co-taught with Santiago Sautua), UCLA.

Advanced Industrial Organization, UCLA.

The Economics of the Corporation, Penn State.

Organizational Economics, Koźmiński U.

Introduction to Finance, Koźmiński U.

Corporate Finance, Koźmiński U.

Ph.D. Courses:

Game Theory (Part 2), Princeton U.

Market Design (a.k.a. General Equilibrium and Game Theory), UCLA and Penn State.

Asset Prices, Forecasting, and Learning, UCLA.

Advanced Microeconomic Theory, Penn State.

Mathematics for Incoming PhD Students in Economics and Management, M.I.T.

**STUDENTS**

**Ph.D. Students with whom I worked as an advisor:**

Alexey Kushnir (now an Assistant Professor at Carnegie Mellon).

Paulo Braulio (now at Credit Suisse Brasil).

Kyle Woodward (now an Assistant Professor at UNC Chapel Hill).

Omer Ali (accepted an offer from the Analysis Group).

Nicholas Doran and Byeong-hyeon Jeong (currently in the program at UCLA).

**Ph.D. Students with whom I worked as a committee member or letter writer:**

Kenneth Mirkin (now a post-doc at U Edinburgh).

James Fisher (now at Ford Motor Co).

Tiago Caruso (now at Uber).

Jen Wen Chang (now an Assistant Professor at CSU Fullerton).

Gregory Kubitz (now a Visiting Assistant Professor at NYU Stern).

Simpson Zhang (now at US Department of Treasury).

Yingju Ma and Marcos Menchaca (currently in the program at UCLA).

**Undergraduate Students with whom I wrote joint papers:**

Peter Chen (subsequent Ph.D. program: U Chicago Finance).

Michael Egedal (subsequent Ph.D. program: Harvard U Economics).

Peng Wang (subsequent Ph.D. program: Princeton U Economics).

### **PRESENTATIONS**

2017 and forthcoming: ZWABT, MATCH-UP (keynote), UAB, UPV.

2016: North American Winter Meetings of the Econometric Society, Essex, LSE, U Penn, Columbia U, North American Summer Meetings of the Econometric Society, ESSET Gerzensee (focus talk), UCLA, U Zurich, NEGТ, CIREQ Microeconomic Conference, U Montreal, NBER Market Design, NYU AD Advances in Mechanism and Market Design.

2015: UC Irvine, Duke-UNC, Harvard-MIT, Ohio State U, U Arizona, Canadian Economic Theory Conference, SAET, AMMA, Econometric Society World Congress, Penn State, Princeton, Stanford, UNSW, U Melbourne, ANU, U Western Ontario, U Toronto, NYU.

2014: SWET, USC, LSE, UCL, The Decentralization Conference, Rochester, NCSU, BC, NEGТ, LA Bash.

2013: UCLA Center for Engineering Economics, Learning, and Networks, North America Econometric Society Meeting, Market Design and Economic Theory (Seoul), Princeton, Rochester, UC Davis.

2012: SWET, Caltech-UCLA Meetings, European Summer Symposium in Economic Theory, Carnegie Mellon-U Pittsburgh, NBER Market Design Workshop, Northwestern.

2011: UC Santa Barbara, Columbia, Wisconsin-Madison.

2010: Minnesota, UC Berkeley, Al Roth and Marilda Sotomayor Celebration Conference at Duke, NBER Market Design Workshop, BC, Rice, UT Austin, UCSD, Carnegie-Mellon, U Penn.

2009: SWET, Washington U.-St Louis, Bonn Mechanism Design Workshop, USC.

2008: Econometric Society Winter Meetings, UCLA, Caltech Matching Workshop, Northwestern.

2007: SUNY Stony Brook Game Theory Festival, Barcelona Matching Workshop, Pittsburgh, Caltech, UCLA, Rochester.

2006: Conference of the Society for Economic Design, SUNY Stony Brook Game Theory Festival, Bonn Matching Conference, Mannheim, UCLA, Penn State, UCL.

2005: MIT, Harvard Business School.

Discussant: Bonn Mechanism Design Workshop (2009), Northwestern Workshop on Matching: Findings, Flaws, and Future (2011), Conference in Honor of Jean Tirole, Toulouse (2015).

### **OTHER PROFESSIONAL ACTIVITIES**

**Associate Editor:** *Theoretical Economics* (2013-2019).

**Referee:** *American Economic Journal: Microeconomics*, *American Economic Review*, *B.E. Journal of Theoretical Economics*, *Central European Journal of Mathematics*, *Decyzje*, *Economic Letters*, *Econometrica*, *European Economic Review*, *Games and Economic Behavior*, *International Economic Review*, *International Journal of Game Theory*, *Journal of Economics & Management Strategy*, *Journal*

## MAREK PYCIA

*of Economic Theory, Journal of the European Economic Association, Journal of Mathematical Economics, Journal of Political Economy, Match-Up, Mathematical Social Sciences, Quarterly Journal of Economics, RAND Journal of Economics, Review of Economics and Statistics, Review of Economic Studies, Social Choice and Welfare, Studia Mathematica, Theoretical Economics, and Transactions on Economics and Computation.*

**Reviewer:** National Science Foundation.

**Consultant:** New York Federal Reserve Bank (2013).

**Conferences:** Member of the Program Committee for the ACM Conference on Economics and Computation EC'16, EC'17.

**Short-term Visits:** U Rochester (Wallis visitor, September 2014), UCSB (Winter 2013 and Fall 2011), Northwestern (visitor at the Center for Economic Theory, October/November 2012), Columbia (PER visitor, April 2011), Microsoft Research (October 2010), U Bonn (Summer 2009), Koźmiński University (Warsaw, Summer 2007).

**Polish Children's Fund** (1992-1999): Member of the Supervisory Board, Editor of the Bulletin, organizer of workshops and conferences, instructor, and the Secretary of the Jury of the Polish Stage of the European Union Young Scientists' Contest.

### AWARDS

Warren C. Scoville Distinguished Teaching Award (Winter 2014).

*American Economic Review* Excellence in Refereeing Award (2012).

M.I.T. Industrial Performance Center Grant, MacArthur Research Network on Economic Inequality and Social Interactions Fellowship for Junior Scholars, Castle Krob Fellowship, and Presidential Fellowship (2001-2005).

Russell Sage Fellowship for the Summer Institute of Behavioral Economics at UC Berkeley (2000).

The French Ministry of Foreign Affairs Eiffel Scholarship (1999-2001).

Marek Kuczma (2006 and 1999), Hugo Steinhaus (1997), and Jozef Marcinkiewicz (1997) Awards for research in mathematics; all awarded by the Polish Mathematical Society.

Stefan Batory Fellowship at Oxford (1997).