

# MAREK PYCIA

University of Zurich, Department of Economics, Blümlisalpstrasse 10, 8006 Zurich

<http://www.econ.uzh.ch/en/people/faculty/pycia.html>

## **APPOINTMENTS**

Professor of Organizational Economics, University of Zurich, 2017-present.

Associate Professor of Economics, UCLA, 2016-2018.

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.

## **EDUCATION**

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

Diplôme Européen d'Economie Quantitative Approfondie, University of Toulouse I, 2000.

Doktorat in Mathematics, Polish Academy of Sciences, Warsaw, 1998.

Certificat d'Introduction au Droit Français et Européen, University of Poitiers and University of Warsaw, 1998.

Magister, *summa cum laude*, University of Warsaw, 1997.

## **EDITORIAL BOARDS AND SELECTED OTHER POSITIONS**

Associate Editor at the *Journal of Economic Theory*, since 2021.

Associate Editor at the *Journal of Mechanism and Institution Design*, since 2021.

Co-Director of the Zurich Center for Market Design, since 2020.

Advisory Editor at *Games and Economic Behavior*, since 2019.

Research Fellow at the Centre for Economic Policy Research (CEPR), since 2018.

Associate Editor at the *International Journal of Game Theory*, since 2018.

Associate Editor at *Theoretical Economics*, since 2013.

Member of the PSU Center for the Study of Auctions, Procurements and Competition Policy, 2007-2008.

Fellow at the MIT Industrial Performance Center, Fall 2004.

Instructor, Leon Koźmiński Academy of Entrepreneurship and Management, Warsaw, 1997-99.

## **SHORT VISITS**

LSE (July 2016), U Melbourne (November 2015), Cornell U (Summer 2015), U Rochester (Wallis visitor, September 2014), New York Federal Reserve Bank (November 2013), 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), Leon Koźmiński Academy of Entrepreneurship and Management (Summer 2007), UCL (March-April 2001),

Toulouse (May-June 1999), Rajk László College (September 1998), Oxford (January-March 1997), UAM Poznań (December 1996).

## PUBLICATIONS

**Des ventes aux enchères efficaces: quels effets au quotidien?** *La Vie économique* December 2020, 57-59, and **Nobelpreis für effiziente Auktionen – eine Alltagsbetrachtung**, *Die Volkswirtschaft* December 2020, 57-59, with Nick Netzer and Sven Seuken (two language versions of the same article and journal).

**Technological Change and Market Design**. In: J-F. Laslier, H. Moulin, R. Sanver, and W. S. Zwicker, eds., *Future of Economic Design*, Springer Series on Studies in Economic Design. Springer 2019. Pp. 535-539.

**A Pseudo-Market Approach to Allocating with Priorities**, with Y. He, A. Miralles, and J. Yen. *American Economic Journal: Microeconomics* 10(3), 272-314 (August 2018).  
The American Economic Association 2019 AEJ Best Paper Award.

**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. *Transplantation* 101(9), 2115-2119 (September 2017).

Provided the blueprint for the US National Kidney Registry (NKR) Voucher Program. Over 50 leading US hospitals participate in the Voucher Program; the program facilitates over 350 kidney transplants per year. Media coverage: Al Roth's Blog, The Boston Globe, CBS, CNN, Fox News, Huffington Post, New Scientist, Reuters, TIME, USA Today, The Wall Street Journal, and other outlets.

**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 2006 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 1999 Marek Kuczma Award for one of the three best papers on functional equations, inequalities, and discrete dynamical systems written by a Polish author.

**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.

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

Recognized by Rzeczpospolita and Coopers&Lybrand as one of the best papers on the development of the Polish economy.

**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.

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

**Nierownosci Funkcyjne**, *Delta* 3 (1993), 4-5.

The Polish Mathematical Society's Gold Medal for the Best Research Paper 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**

**A Theory of Simplicity in Games and Mechanism Design**, with P. Troyan.

Revision requested by *Econometrica*.

Subsumes “Obvious Dominance and Random Priority,” with P. Troyan.

Abstract published in the *Proceedings of the ACM Conference on Economics and Computation EC'19*.

Exemplary Theory Track Paper Award at the *ACM Conference on Economics and Computation EC'19*.

Best Paper Award at the *ACM Conference on Economics and Computation EC'19*.

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

Revision requested by the *Review of Economic Studies*.

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*.

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

Abstract published in the *Proceedings of The Third Conference on Auctions, Market Mechanisms and Their Applications*.

**Auctions of Homogeneous Goods: A Case for Pay-as-Bid**, with K. Woodward.

Subsumes **Pay-As-Bid: Selling Divisible Goods**, with abstract published in the *Proceedings of the ACM Conference on Economics and Computation EC'16*.

**Evaluating with Statistics: Which Outcome Measures Differentiate Among Matching Mechanisms?**

Invited as keynotes at MATCH-UP 2017 and Matching in Practice 2017. Previously titled “Invariance and Matching Market Outcomes.”

**Foundations of Pseudomarkets: Walrasian Equilibria for Discrete Resources**, with A. Miralles.

Revision requested by the *Journal of Economic Theory*. Previously titled “Prices and Efficient Assignments Without Transfers.”

**Towards a Resolution of the Privacy Paradox**, with K. Madarasz.

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

Revision requested by *Games and Economic Behavior*.

**The Cost of Ordinality.**

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

Revision requested by the *Journal of Economic Theory* as a new submission (“reject and resubmit”).

**Pseudomarkets.** Chapter for the textbook **Online and Matching-Based Market Design**, *Cambridge University Press*, eds. Federico Echenique, Nicole Immorlica, and Vijay Vazirani.

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

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

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

**Swaps on Networks.**

**Credibility and Group Strategy-Proofness**, with U. Unver.

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

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

**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.**

**Coronavirus Testen und Einfrieren: Eine Überlebensstrategie für die Schweizer Volkswirtschaft**, with C. Alós-Ferrer, S. Ambühl, B. Bartling, P. Biroli, T. Boneva, A. Brenøe, L. Casaburi, G. Crawford, D. Dorn, C. Ewerhart, E. Fehr, T. Hare, D. Hémous, M. Hoffmann, N. Jaimovich, D. Kozbur, G. Lichand, M. Maréchal, N. Netzer, R. Ossa, D. Pomeranz, C. Ruff, F. Scheuer, A. Schmutzler, J. Steiner, P. Tobler, J. Voth, R. Weber, R. Winkelmann, U. Woitek, M. Wolf, D. Yanagizawa-Drott, U. Zölitz, J. Zweimüller. Universität Zürich, Department of Economics, Position Paper, March 2020.

### **KEYNOTES, INVITED TALKS, AND CONFERENCE TALKS**

Forthcoming: Stanford, Glasgow, Michigan, Singapore Management University, Essex, York, Swiss Society of Economics and Statistics Congress 2021, ESSET 2021 (focus talk), European Meeting on Game Theory (plenary talk), Brussels Workshop on Economic Design and Institutions.

2020: Lausanne (departmental seminar), Edinburgh, Warsaw Economic Seminar, Indian Statistical Institute, Caltech, Carnegie Mellon/U Pittsburgh, Bonn/Ecole Polytechnique/LSE/Warwick/Yale/Zurich SET Seminars in Economic Theory, European Winter Meetings of the Econometric Society.

2019: Chicago Booth & Econ, Science Polish Perspective Zurich (keynote), Designing and Evaluating Matching Markets Conference at WZB, ESSET 2019, Aix Marseille (AMSE Seminar), IFN Stockholm, NBER Market Design, Bern (departmental seminar), U Bocconi, Paris School of Economics (Roy Seminar), Paris-Dauphine.

2018: Oxford, EUI Florence, FU/ESMT/TU/HU Berlin, U Zielona Gora, U Zurich, Arne Ryde Workshop on Market Design in Lund.

2017: ZWABT, NYU Econometrics Meets Theory, MATCH-UP (keynote), Matching in Practice (keynote), SSE, Bonn, Barcelona JOCS Talk, UAB, UPV/EHU.

2016: North American Winter Meetings of the Econometric Society, Essex, LSE, U Penn, Columbia U, North American Summer Meetings of the Econometric Society, ESSET (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 GSB & Econ, UNSW, U Melbourne, ANU, U Western Ontario, U Toronto, NYU.

2014: SWET, USC, LSE, UCL, NBER 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.

**Panels and Discussions:** ETH Inaugural John von Neumann Lecture (2020), NYU Econometrics Meets Theory (2017), Conference in Honor of Jean Tirole, Toulouse (2015), Northwestern Workshop on Matching: Findings, Flaws, and Future (2011), Bonn Mechanism Design Workshop (2009).

### **Conference Organization**

- Matching in Practice, Fall 2021, Organizing Committee Chair.
- 2020-2021 Swiss Society of Economics and Statistics Annual Congress Organizing and Program Committees Member.
- The ACM Conferences on Economics and Computation EC'16, EC'17, EC'20, EC'21 Program Committee Member.
- 2020 World Congress of the Econometric Society Program Committee Member.
- 2019 Asian Meeting of the Econometric Society, Organizer of the Invited Market Design Session.
- The Fifth International Conference on Matching under Preferences MATCH-UP 2019, Program Committee Co-Chair.
- 2019 Swiss Society of Economics and Statistics Annual Congress, Program Committee Member.
- 2018 Annual Congress of the European Economic Association, Program Committee Member.

### **TEACHING AND ADVISING**

**Ph.D. Students** for whom I was Advisor/Committee Chair (A) or Committee Member

- Avantika Chowdhury, Oxera.
- Alexey Kushnir (A), Assistant Professor at Carnegie Mellon.
- Paulo Braulio (A), Trend Capital Management LP.
- Kenneth Mirkin, Post-Doc at U Edinburgh/European University Institute.
- Kyle Woodward (A), Assistant Professor at the UNC Chapel Hill.
- Jen Wen Chang, Assistant Professor at CSU Fullerton.
- Gregory Kubitz, Lecturer at Queensland University of Technology; Visiting AP at NYU Stern.

Tiago Caruso, Uber.

Simpson Zhang, US Department of Treasury.

Omer Ali (A), Post-Doc at Duke.

Marcos Menchaca, Lecturer at CSU Northridge.

Xinyu Fan, Assistant Professor at Cheung Kong Graduate School of Business.

Byeong-hyeon Jeong (A), Post-Doc at U Melbourne.

Yingju Ma, Luohan Academy.

Alexei Smirnov, Assistant Professor at the Higher School of Economics, Moscow.

### **Post-doctoral Scholars**

Samuel Haefner, Researcher at the University of St. Gallen.

### **Undergraduate Co-Authors (and Their Subsequent Ph.D. Programs)**

Peter Chen, U Chicago Finance.

Michael Egedal, Harvard U Economics.

Peng Wang, Princeton U Economics.

### **Ph.D. Courses**

Microeconomics for Research Students (Part IIb). U Zurich.

Research in Microeconomics and Market Design. U Zurich.

Market Design. U Zurich.

Game Theory (Part 2). Princeton.

Market Design (General Equilibrium and Game Theory). UCLA.

Asset Prices, Forecasting, and Learning. UCLA.

Market Design. Penn State.

Advanced Microeconomic Theory. Penn State.

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

### **Undergraduate Courses**

Pioneering Economics. Co-taught with R. Ossa, E. Fehr, T. Boneva, J. Voth, D. Yanagizawa-Drott, D. Dorn, N. Jaimovich, L. Casaburi, M. Maréchal, and D. Hemous. U Zurich.

Introduction to Market Design. U Zurich.

Designed Markets. UCLA. Warren C. Scoville Distinguished Teaching Award, Spring 2017 and Winter 2014; and the highest student course evaluation among UCLA undergraduate economics courses, Spring 2013.

Fiat Lux Seminar on Game Theory and Martial Arts. UCLA.

Fiat Lux Seminar on the Winner's Curse. Co-taught with S. Sautua. UCLA.

Advanced Industrial Organization. UCLA.

Organizational Economics. Leon Koźmiński Academy of Entrepreneurship and Management.  
The Economics of the Corporation. Penn State.  
Introduction to Finance. Leon Koźmiński Academy of Entrepreneurship and Management.  
Corporate Finance. Leon Koźmiński Academy of Entrepreneurship and Management.

### **OTHER PROFESSIONAL ACTIVITIES**

**Referee:** *American Economic Journal: Microeconomics, American Economic Review, American Economic Review: Insights, B.E. Journal of Theoretical Economics, Central European Journal of Mathematics, Decyzje, EC, Econometrica, Economic Journal, Economic Letters, Economic Theory, European Economic Review, Games and Economic Behavior, International Economic Review, International Journal of Game Theory, Journal of Economics & Management Strategy, Journal of Economic Behavior and Organization, Journal of Economic Theory, Journal of the European Economic Association, Journal of Industrial Economics, Journal of Institutional and Theoretical Economics, Journal of Mathematical Economics, Journal of Political Economy, Journal of Public Economics, Management Science, Match-Up, Mathematical Social Sciences, Quarterly Journal of Economics, RAND Journal of Economics, Review of Economics and Statistics, Review of Economic Studies, Scottish Journal of Political Economy, Social Choice and Welfare, Studia Mathematica, Theoretical Economics, Transactions on Economics and Computation*, Cambridge University Press, the Leverhulme Trust, and the National Science Foundation.

**External Ph.D. Examiner:** University of Melbourne, University of Warsaw.

**Exhibition on Lloyd Shapley at the UCLA Research Library:** prepared with Nancy Blumstein and Maria Jankowska (2013).

**The Polish Children's Fund:** member of the Supervisory Board (Komisja Rewizyjna), instructor, tutor, the editor of the Fund's Bulletin, organizer of workshops and conferences, and the organizer of the first reunion of the Fund's alumni (1992-1999).

**The European Union Contest for Young Scientists:** the secretary of the Jury of the Polish Sub-Contest (1995-1998).

**Other Work Experience:** construction worker; management consultant for non-profits; and a forecaster at the Polish Academy of Sciences Forecast Committee.

### **AWARDS**

*American Economic Review: Insights* Excellence in Refereeing Award 2020.

The Association of Computing Machinery (ACM) 20<sup>th</sup> Conference on Economics and Computation EC'19 Best Paper Award and Exemplary Theory Track Paper Award.

The American Economic Association 2019 AEJ Best Paper Award.

*American Economic Review* Excellence in Refereeing Award (2012, 2017).

Warren C. Scoville Distinguished Teaching Award, UCLA (Winter 2014, Spring 2017).

Six Best-Paper Awards of the Polish Mathematical Society, including the Marek Kuczma (2006 and 1999) and Józef Marcinkiewicz (1997) Awards.

Gold medalist, medalist, and laureate of national and international student competitions and olympiads in mathematics, physics, and literature/theater.



**GRANTS AND FELLOWSHIPS**

European Research Council's (ERC) Consolidator Grant "Simplicity and Market Design." Scientific evaluation concluded and award announced in 2019. Administrative procedures pending.

UCLA Chancellor's Research Award (2011, 2017).

M.I.T. Industrial Performance Center Grant, John D. and Catherine T. MacArthur Foundation's Research Network on Economic Inequality and Social Interactions Fellowship for Younger Scholars, Castle Krob Fellowship, and M.I.T. Presidential Fellowship (2001-2005).

Fellowships of the Foundation for Polish Science, Polityka Weekly, the President of the Leon Koźmiński Academy of Entrepreneurship and Management, the Polish Academy of Sciences, the President of Warsaw, and the Polish Ministry of Education (1993-2002).

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

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

Stefan Batory Fellowship at Plater College and Oxford University (1997).