CURRICULUM VITAE

Basic data

name:	Łukasz Patryk Woźny
office:	Warsaw School of Economics
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Education

2017	habilitation at Warsaw School of Economics
2008	Ph.D. defence, *Strategic Interactions in Public Good Games*, Warsaw School of Economics, supervisor: Prof. M. Garbicz
2006 - 2007	Fulbright Fellowship, Department of Economics, Arizona State University, Phoenix, USA, supervisor: Prof. K. Reffett
2004 - 2005	Marie Curie Host Fellowship, European Doctoral Network, Center for Operation Research and Econometrics, Université catholique de Louvain, Belgium, supervisor: Prof. J. Hindriks
2000 - 2004	M.Sc. at Warsaw School of Economics, faculty of Economics

Duties

2008 -	Associate professor (since June 2017), Warsaw School of Economics, Department of Quantitative Economics - lectures at undergraduate and graduate programs: Advanced Microeconomics, Game Theory, General Equilibrium, Intermediate Microeconomics - supervising Bachelor, Master and PhD thesis - leading and organizing Research Seminar at WSE - coordinator of **Erasmus Mundus Joint Master degree** QEM (Quantitative Economic Methods) program at WSE, European Commission Grant (2019-2025)
2005 - 2007	Teaching and Research Assistant, Warsaw School of Economics, duties: - classes with M.Sc. and Ph.D. students (Economic Theory, Game Theory, Dynamic Optimization, Lattice Programming and Supermodular Games) - technical duties (programming: Maple, Matlab, Stata)
2004	Teaching and Research Assistant, Division of Decision Analysis and Support of Institute of Econometrics, Warsaw School of Economics, tasks: classes and materials for students

Research grants (selected)

2021-2023	R&D principal in National Centre for Research and Development (NCBiR) grant for *NEUROGAMES LAB z o.o*, funding PLN 4.4m
2020-2023	principal investigator in National Science Center (NCN) OPUS grant: *On behavioral discounting and Markov equilibria in stochastic decision problems*, funding PLN 291k
2020	*Doskonala Nauka* (Ministry of Science and Higher Education) grant for conference organization, 2020, PLN 109k.
2014-2016	principal investigator in National Science Center (NCN) SONATA grant: *On the role of temptations and self-control in economic choices*, funding PLN 118k
2008-2021	leading 6 grants for Young Researchers and 9 Statutory Grants at WSE

Selected publications

2021 *Markov distributional equilibrium dynamics in games with complementarities and no aggregate risk*, [with L.Balbus, P.Dziewulski, K.Reffett], **Theoretical Economics**, forthcoming

2019 *A qualitative theory of large games with strategic complementarities*, [with L.Balbus, P.Dziewulski, K.Reffett], **Economic Theory**, vol. 67, p. 497-523

2019 *Lipschitz recursive equilibrium with a minimal state space and heterogeneous agents*, [with R.Raad], **Journal of Mathematical Economics**, vol. 82, p. 98-111

2018 *On uniqueness of time-consistent Markov policies for quasi-hyperbolic consumers under uncertainty*, [with L.Balbus, K.Reffett], **Journal of Economic Theory**, vol 176, p. 293-310

2018 *Comparing recursive equilibrium in economies with dynamic complementarities and indeterminacy*, [with M.Datta, K.Reffett], **Economic Theory**, vol. 66 (3), p. 593-626

2018 *Dynamic games in macroeconomics*, [with L. Balbus, K. Reffett], **Handbook of Dynamic Game Theory**, editors: T. Basar, G.Zaccour, Springer International Publishing.

2017 *A note on Markov perfect equilibria in a class of non-stationary stochastic bequest games*, [with L.Balbus, A.Jaskiewicz, A.Nowak], **Journal of Mathematical Analysis and Applications**, vol. 456 (1), p. 394-401

2016 *A strategic dynamic programming method for studying short memory equilibria of stochastic games with uncountable number of states*, [with L.Balbus], **Dynamic Games and Applications**, vol. 6(2), p. 187-208

2016 *On the price of commitment assets in a general equilibrium model with credit constraints and tempted consumers*, **The B.E. Journal of Theoretical Economics**, vol. 16(2), p. 579–598.

2015 *Monotone equilibria in nonatomic supermodular games. A comment*, [with L.Balbus, K.Reffett], **Games and Economic Behavior**, vol. 94, p. 182-187.

2015 *Differential information in large games with strategic complementarities*, [with L.Balbus, P.Dziewulski, K.Reffett], **Economic Theory**, vol. 59 (1), p. 201-243.

2015 *Computing time-consistent Markov policies for quasi-hyperbolic consumers under uncertainty*, [with L.Balbus, K.Reffett], **International Journal of Game Theory**, vol. 44 (1), p. 83-112.

2015 *On incentives, temptation and self-control*, **Mathematical Social Sciences**, vol. 74, p. 60-67.

2014 *Constructive study of Markov equilibria in stochastic games with complementarities*, [with L.Balbus, K.Reffett], **Journal of Economic Theory**, vol. 150, p. 815–840.

2013 *A constructive geometrical approach to the uniqueness of Markov stationary equilibrium in stochastic games of intergenerational altruism*, [with L.Balbus, K.Reffett], **Journal of Economic Dynamics and Control**, vol. 37 (5), p. 1019-1039.

2013 *Markov stationary equilibria in stochastic supermodular games with imperfect private and public information*, [with L.Balbus, K.Reffett], **Dynamic Games and Applications**, vol. 3 (2), p. 187-206.

2012 *Stationary Markovian equilibria in Altruistic Stochastic OLG models with Limited Commitment*, [with L.Balbus, K.Reffett], **Journal of Mathematical Economics**, vol. 48, p. 115-132.

2012 *Strategic interactions in human capital accumulation*, [with J.Growiec], **The B.E. Journal of Theoretical Economics**, vol. 12.

Conference talks (selected)

2021 *6th World Congress of the Game Theory Society*, Budapest, Hungary, 2021 session: *Time consistent equilibria in dynamic models with recursive payoffs and behavioral discounting*

2021 *Risk, Uncertainty and Decision Conference*, University of Minnesota, US, 2021 session: *Time consistent equilibria in dynamic models with recursive payoffs and behavioral discounting*

2021 *(20th Conference of) Society for Advancement in Economic Theory*, Seul, Korea, session: *New Methods for Dynamic Games and Economics*

2021 *XXIX Europen Workshop on Economic Theory*, Akko, Israel, paper: *Time consistent equilibria in dynamic models with recursive payoffs and behavioral discounting*

2020 *12th World Congress of the Econometric Society*, Milan, Italy, paper: *Distributional equilibria in dynamic supermodular games with a measure space of players and no aggregate risk*

2019 *Time, Uncertainties and Strategies V*, Paris, France, paper: *Equilibria in Dynamic Behavioral Games with Generalized Discounting*

2019 *The 30th International Conference on Game Theory*, Stony Brook, USA, paper: *Distributional equilibria in dynamic supermodular games with a measure space of players and no aggregate risk*

2019 *(19th Conference of) Society for Advancement in Economic Theory*, Ischia, Italy, paper: *Supermodular comparative statics for dynamic games*

2019 *Europen Workshop in Economic Theory*, Berlin, Germany, paper: *Supermodular comparative statics*

2018 *(18th Conference of) Society for Advancement in Economic Theory*, Taipei, Tajwan, paper: *Supermodular comparative statics*

2018 *Europen Workshop in General Equilibrium Theory*, Paris, France, paper: *Lipschitz Recursive Equilibrium with a Minimal State Space and Heterogenous Agents*

2017 *(17th Conference of) Society for Advancement in Economic Theory*, Faro, Portugal, organizing session: *Complementarities and Games*

2017 *UECE Lisbon Meetings in Game Theory and Applications*, Lisboa, Portugal, paper: *Distributional equilibria in dynamic supermodular games with a measure space of players and no aggregate risk*

2017 *Time, Uncertainties and Strategies III*, Paris, France, paper: *Supermodular comparative statics*

2017 *Europen Workshop in General Equilibrium Theory*, Salamanca, Spain, paper: *Distributional equilibria in dynamic supermodular games with a measure space of players and no aggregate risk*

2016 *(16th Conference of) Society for Advancement in Economic Theory*, Rio de Janeiro, Brasil, organizing session and presenting paper: *Repeated moral hazard with costly self control*

2016 *Summer Workshop in Economic Theory*, Paris, France, paper: *Repeated moral hazard with costly self control*

2016 *Europen Workshop in General Equilibrium Theory*, Glasgow, UK, paper: *Repeated moral hazard with costly self control*

2015 *UECE Lisbon Meetings in Game Theory and Applications*, Lisboa, Portugal, paper: *Repeated moral hazard with costly self control*

2015 *(15th Conference of) Society for Advancement in Economic Theory*, Cambridge, UK, organizing session and presenting paper: *Markov equilibria in dynamic supermodular games with a measure space of players and no aggregate risk*

2015 *Europen Workshop in General Equilibrium Theory*, Naples, Italy, paper: *Markov equilibria in dynamic supermodular games with a measure space of players and no aggregate risk*

2015 *ANR Nuvo Tempo Workshop on Recursive Methods*, Phoenix, USA, paper: *Markov equilibria in dynamic supermodular games with a measure space of players and no aggregate risk*

2014 *(14th Conference of) Society for Advancement in Economic Theory*, Tokyo, Japan, paper: *On incentives, temptation and self-control*

2014 *10th SING (Conference on Game Theory)*, Kraków, Poland, paper: *Differential information in large games with strategic complementarities*

2014 *Europen Workshop in General Equilibrium Theory*, Paris, France paper: *On incentives, temptation and self-control*

2014 *Workshop on On Recursive Methods in Economic Dynamics*, Adam Smith Business School, University of Glasgow, UK, paper: *On incentives, temptation and self-control*

2013 *Dynamic Interactions in Economic Theory*, Paris, France, paper, *Existence and uniqueness of time consistent Markov policies for quasi-hyperbolic consumers*

2013 *Association for Public Economic Theory International Meeting, PET13*, Lisbon, Portugal, paper: *Constructive study of Markov equilibria in stochastic games with complementarities*

2013 *(13th Conference of) Society for Advancement in Economic Theory*, Paris, France, paper: *Computing optimal, time-consistent policies of quasi-hyperbolic consumers under uncertainty*

2011 *(11th Conference of) Society for Advancement in Economic Theory*, Faro, Portugal, paper: *Toward decentralizing Markov equilibria in stochastic games* and *Computing time-consistent Markov policies for quasi-hyperbolic consumers under uncertainty*

2011 *Europen Workshop in General Equilibrium Theory*, Vigo, Spain, paper: *Computing time-consistent Markov policies for quasi-hyperbolic consumers under uncertainty*

2010 *Society for Advancement of Economic Theory 10th Conference on Current Trends in Economics*, Singapore, paper: *Constructive study of Markov equilibria in stochastic games with complementarities*

2008 *International Symposium On Dynamic Games And Applications*, Wrocław, Poland, paper: *A constructive approach to existence and uniqueness of Markov perfect Nash equilibria in stochastic games of intergenerational altruism*

Invited talks (selected)

2021 *One World Mathematical Game Theory Seminar*, GAMENET paper: Time consistent equilibria in dynamic models with recursive payoffs and behavioral discounting.

2020 *Seminarium na Wydziale Matematyki, Informatyki i Mechaniki* Uniwersytet Warszawski, paper: Time consistent equilibria in dynamic models with recursive payoffs and behavioral discounting.

2020 *Economic Seminar, University of Minnesota*, Minneapolis, US paper: Equilibria in dynamic games with recursive payoffs and behavioral discounting.

2019 *Kansas Workshop in Economic Theory, University of Kansas*, Lawrence, USA, paper: Supermodular comparative statics.

2018 *Economic Seminar at Department of Economics, Arizona State University*, Phoenix, USA, paper: Supermodular comparative statics.

2017 *Seminar at Laboratoire d'économie mathématique et de microéconomie appliquée Universite Paris II, Pantheon-Assas*, Paris, France, paper: Repeated moral hazard with costly self-control.

2015	*Microeconomic Seminar at Department of Economics, Universitat Autonoma de Barcelona*, Barcelona, Spain, paper: Repeated moral hazard with costly self-control.
2014	*Economic Theory Seminar at Paris School of Economics*, Paris, France, paper: Strategic dynamic programming methods for short memory equilibria in a class of stochastic games with uncountable number of states
2012	*Nuffield Economic Theory Seminar, Department of Economics, University of Oxford* Oxford, UK, paper: Constructive study of Markov equilibria in stochastic games with complementarities
2012	*Institut Henri Poincare, Séminaire Parisien de théorie des jeux / Paris Game Theory Seminar*, Paris, France, 2012 paper: Constructive study of Markov equilibria in stochastic games with complementarities

Scholarships and awards

2018	**Prime Minister of Poland Scientific Award** for habilitation dissertation
since 2018	Member of the prof Andrzej Malawski Award Chapter
2017	**Finalist of Polityka Journal Scientific Award**
2014-2017	**Ministry of Science and Higher Education Scholarship** for Outstanding Young Scientists
2013-2020	research awards from the WSE Rector for scientific (2020, 2018, 2015) and organizational activity (2019, 2014). Awards and certificates of appreciation from SGH Rector for publications in top journals, obtaining external financing and citations.

Research visits

2020	short visit (February) at Department of Economics, University of Minnesota
2020	short visit (February) at Department of Economics, Arizona State University
2019	short visit (February) at Department of Economics, Ca' Foscari, Venice, Italy
2018	short visit (February) at Department of Economics, Arizona State University
2016	short visit (May) at Paris School of Economics
2014	short visit (February) at Department of Economics, Arizona State University
2012	Visiting Professor at University of Oxford, Department of Economics, invited lectures on Stochastic Games, research on game theory and self control

Co-organized conferences

2022	XXX European Workshop on Economic Theory, Warsaw, Poland, Scientific and organizing committee
2018	7th Hurwicz Workshop, Warsaw, Poland, Scientific and organizing committee
2017	International Society of Dynamic Games (ISDG) Workshop, Warsaw, Poland, Scientific committee
2016	6th Hurwicz Workshop, Warsaw, Poland, Scientific and organizing committee
2015	XXIVth European Workshop on General Equilibrium Theory, Naples, Italy, Scientific committee
2014	5th Hurwicz Workshop, Warsaw, Poland, Scientific and organizing committee
2014	25 Years of the Poland's transition to a Market Economy, Warsaw, Poland, Organizing committee
2010	XIXth European Workshop on General Equilibrium Theory, Kraków, Poland, Organizing committee

Recent working papers

2021	*Time consistent equilibria in dynamic models with recursive payoffs and behavioral discounting*, [with L.Balbus, K.Reffett], revision requested at **Journal of Economic Theory**
2021	*On complementary symmetry and reference dependence*, [with M.Lewandowski], revision requested at **Journal of Mathematical Psychology**
2021	*Intergenerational altruism and time consistency*, [with L.Balbus, K.Reffett]
2021	*On collective intertemporal choice, time-consistent decision rules and altruism*, [with L.Balbus, J.P. Drugen]
2020	*Efficiency in rewarding academic journal publications. The case of Poland*, [with W.Charemza, M.Lewandowski]
2020	*Interim correlated rationalizability in large games*, [with L.Balbus, M.Greinecker, K.Reffett]
2016	*An experiment on temptation and attitude towards paternalism*, [with M.Krawczyk]
2016	*Repeated moral hazard with costly self control*

PhD Students

Michal Chojnowski, thesis: *Estimating market sentiments in economic models*, NCN Preludium Grant 2018-2020
Przemyslaw Siemaszko, thesis: *Global Games on Social Networks*, NCN Preludium Grant 2019-2021
Marek Kapera, thesis: *Learning own preferences through consumption*, NCN Preludium Grant 2021-2023

Editorial Positions

Editorial Board of *Statistical Review*, since 2019

Refereed for (selected)

Automatica, Dynamic Games and Applications, Economic Theory, Economic Theory Bulletin, Games and Economic Behaviour, International Journal of Game Theory, International Economic Review, Journal of Economics Behavior and Organization, Journal of Economic Dynamics and Control, Journal of Economic Theory, Journal of Public Economic Theory, Mathematical Social Sciences, Theoretical Economics a.o.

Research interests

time-consistency and self-control problems, game theory: large games, stochastic games, supermodular games, economic theory: recursive competitive equilibrium, lattice programming, partial ordering methods, monotone operators

References (on request)

Kevin Reffett, *Department of Economics, Arizona State University*
Bernard Cornet, *University of Paris 1 Pantheon-Sorbonne, University of Kansas*
Jakub Growiec, *Warsaw School of Economics*

Warsaw, Nov 2nd, 2021