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PERSONAL DATA

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APPOINTMENTS

2014–PRESENT Career Development Fellow in ECONOMICS, **University of Oxford**
Joint position at Department of Economics and Lady Margaret Hall

ACADEMIC BACKGROUND

2011–2014 Doctor of Philosophy in ECONOMICS, **University of Oxford**
Thesis: “Essays on time-dependence and revealed preference”
Advisor: Prof. John K.-H. QUAH

2004–2009 Master of Arts in ECONOMICS, *magna cum laude*, **Warsaw School of Economics**
Thesis: “On oligopolistic competition with asymmetric access to infrastructure”
Advisor: Prof. Lukasz P. WOZNY

TEACHING EXPERIENCE

JULY 2017 **Advanced Microeconomics and Industrial Organisation**, lectures for undergrad.
Lecturer, Pembroke & King’s Summer Programme, UNIVERSITY OF CAMBRIDGE

2015–PRESENT **Behavioural economics**, lectures for 2nd year grad. (M.Phil. in Economics)
Department of Economics, UNIVERSITY OF OXFORD

2014–PRESENT **Microeconomics**, tutorials and classes for 1st, 2nd year undergrad.
Economics tutor, Lady Margaret Hall, UNIVERSITY OF OXFORD

2012–2013 **Microeconomics and Microeconomic theory**, classes for 2nd, 3rd year undergrad.
Teaching fellow for Prof. Sujoy Mukerji
University College and Department of Economics, UNIVERSITY OF OXFORD

PAST APPOINTMENTS

2013–2014 **Research Assistant** for Prof. John K.-H. Quah
Department of Economics, UNIVERSITY OF OXFORD

2012–2014 **Non-stipendiary Lecturer in Economics**,
University College, UNIVERSITY OF OXFORD

2009–2011 **Teaching Assistant** for Prof. Wojciech Pacho
Department of Applied and Theoretical Economics, WARSAW SCHOOL OF ECONOMICS

2009–2011 **Research Assistant** for Dr Tadeusz Smuga
INSTITUTE FOR MARKET AND BUSINESS CYCLE RESEARCH in Warsaw

FIELDS OF INTEREST

PRIMARY FIELDS Microeconomic theory, Revealed preference analysis, Behavioural economics
SECONDARY FIELDS Game theory, General equilibrium theory, Monotone comparative statics

PUBLICATIONS

“Efficiency of competitive equilibria in economies with time-dependent preferences,” **Journal of Economic Theory**, 159(Part A), pp 311-325 (2015) | [Download PDF](#)

“Differential information in large games with strategic complementarities” (with L. Balbus, K. Reffett, and L. Wozny), **Economic Theory**, 59(1), pp 201-243 (2015) | [Download PDF](#)

“A qualitative theory of large games with strategic complementarities” (with L. Balbus, K. Reffett, and L. Wozny), **Economic Theory**, forthcoming (2017) | [Download PDF](#)

JOB MARKET PAPER

“ELICITING THE JUST-NOTICEABLE DIFFERENCE” | [PDF](#) [SLIDES](#) [VIDEO](#)

The evidence from psychophysics suggest that people are unable to discriminate between alternatives unless the options are sufficiently different. This paper provides a method of eliciting consumer preference from observable choices when the agent can not perfectly discern between bundles that are similar. Since such a behaviour requires for indifferences to be non-transitive, it can not be reconciled with utility maximisation. We approach the issue of noticeable differences by modelling consumer choice with *semiorders*. Following the tradition of Afriat (1967), we introduce a necessary and sufficient condition under which a finite dataset of consumption bundles and corresponding budget sets can be rationalised with such a relation. The result can be thought of as an extension of the well-known Afriat’s theorem to semiorder, rather than utility maximisation. Our approach is constructive and allows us to infer both the “true” preferences of the consumer (i.e., as if perfect discrimination were possible), as well as the value of the just-noticeable difference that is sufficient for the agent to discern between alternatives. Furthermore, we argue that the latter constitutes a natural, behaviourally founded measure of departures from utility maximisation. We conclude by applying our method to household-level scanner panel data of food expenditures.

OTHER RESEARCH PAPERS

“SUPERMODULAR VALUE FUNCTIONS AND SUPERMODULAR CORRESPONDENCES” (with John K.-H. Quah)

Economic problems often involve an objective function whose value depends partly on exogenous variables and partly on actions which are chosen by an agent. We are interested in the conditions under which the resulting value is a supermodular function of the exogenous variables (after actions have been optimally chosen). Problems of this sort arise in multi-output production, optimization with non-EU models, and dynamic programming. We show that these problems can be tackled through a theory of supermodular correspondences. Our work builds on results in monotone comparative statics in Topkis (1978), Hopenhayn and Prescott (1992), and Milgrom and Shannon (1994). | [Download PDF](#)

“REVEALED TIME-PREFERENCE”

In this paper we present the observable implications of the discounted utility model of inter-temporal choice. Given a finite set of binary comparisons between dated rewards, we discuss conditions under which the induced revealed preference relation is rationalisable by a discounted utility maximisation. We develop an axiomatic characterisation of time-preference for various specifications of the model, including weakly present-biased, quasi-hyperbolic, and exponential. An important advantage of our approach is that it can be applied directly to empirical data. We implement the developed methods to experimental observations from Benhabib, Bisin, and Schotter (2010). We show that out of all subjects whose choices could be rationalised by a utility maximisation, around half were consistent with the quasi-hyperbolic or exponential discounted utility model. | [Download PDF](#)

“TESTING FOR PRODUCTION WITH COMPLEMENTARITIES” (with John K.-H. Quah)

Suppose we observe a finite number of input decisions made by a firm, as well as the prices at which those inputs were acquired. What conditions on the set of observations are necessary and sufficient for it to be consistent with a firm choosing inputs to maximize profit, subject to a production function exhibiting production complementarities? In this paper, we develop an axiomatic characterisation of this hypothesis and also develop a test that can be easily applied to finite data sets. | [Download PDF](#)

PROFESSIONAL ACTIVITIES

RESEARCH PRESENTATIONS 2017

Johns Hopkins University (seminar), Kansas Workshop in Economic Theory (Lawrence), European Workshop in General Equilibrium Theory (Salamanca), Bounded Rationality in Choice (London), Summer Workshop in Economic Theory (Paris), European Meeting of the Econometric Society (Lisbon), Transatlantic Theory Workshop (Paris), University of St Andrews (seminar), Lisbon Meetings in Game Theory and Applications

2016

Early-Career Behavioural Economists Conference (Bonn), European Workshop on General Equilibrium Theory (Glasgow), SAET Conference on Current Trends in Economics (Rio de Janeiro), Workshop “Time, Uncertainties & Strategies” (Paris)

2015

European Workshop on General Equilibrium Theory (Naples), SAET Conference on Current Trends in Economics (Cambridge), World Congress of the Econometric Society (Montreal), Workshop “Time, Uncertainties & Strategies” (Paris)

2014

European Meeting of the Econometric Society (Toulouse), Warsaw International Economic Meeting (Warsaw), Ce2 Workshop (Warsaw), European Workshop on General Equilibrium Theory (Paris), North American Summer Meeting of the Econometric Society (Minneapolis)

2013

NBER/NSF/CEME Conference on General Equilibrium and Mathematical Economics (New York), SAET Conference on Current Trends in Economics (Paris), European Workshop on General Equilibrium Theory (Vienna)

2012

International Conference on Game Theory (Stony Brook), European Workshop on General Equilibrium Theory (Exeter)

REFeree Journal of Economic Theory, Journal of Mathematical Economics, Journal of Political Economy, Mathematical Social Sciences, Oxford Economic Papers, Social Choice and Welfare

HONORS AND AWARDS

2015–2017 Polish National Science Centre research grant
Joint with L. Balbus and L. Wozny

2012–2014 Doctoral Studentship Award, Department of Economics, University of Oxford

2009–2011 European Social Fund Award for Young Researchers

JUNE 2010 I.S.E.O. Summer School scholarship

RELEVANT SKILLS

LANGUAGE POLISH (native), English (fluent), French (intermediate)
PROGRAMMING Matlab, Stata, L^AT_EX, Linux

REFERENCES

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