LEONIE BAUMANN

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CURRENT POSITION

Postdoctoral Research Associate, Cambridge-INET Institute, Faculty of Economics, University of Cambridge, since 2016

GRADUATE STUDIES

Ph.D. in Economics (summa cum laude), University of Hamburg, Germany, 2012-17

Thesis title: Essays on Social Interactions in Microeconomic Theory Committee: Anke Gerber (primary advisor), Andreas Lange (secondary advisor), Gerd Mühlheusser, Lydia Mechtenberg

Summer School of the Econometric Society: Frontiers in Microeconomic Theory, 08/2014

M.Sc. in Economics, University of Hamburg, 2009-12

UNDERGRADUATE STUDIES

B.A. in Economics (with distinction), University of Siegen, Germany, 2005-09

B.A. in Literary, Cultural and Media Studies, University of Siegen, 2004-09

ERASMUS Exchange, Department of Economics, University of Orléans, France, 01-06/2008

Research and Teaching Interests

Economic Theory, Networks, Mechanism Design, Game Theory

Additional teaching interests:

Economics of Information, Environmental Economics, Industrial Organization

RESEARCH AND WORK EXPERIENCE

Postdoctoral Associate, Christ's College, Cambridge, 2017-18

Bye-Fellow, Christ's College, Cambridge, 2016-17

Research and Teaching Assistant for Anke Gerber (Microeconomic Theory and Experiments), University of Hamburg, 2012-16

- Visiting Student Researcher with Matthew Jackson, Stanford University, 02-04/2014
- Research Assistant for Jann Lay (Project "Large Scale Land Acquisitions and Sustainable Development"), German Institute of Global and Area Studies, Hamburg, Germany, 2010-11

Student Assistant for Rüdiger Pethig (Environmental Economics), University of Siegen, 01-09/2009

WORKING PAPERS

Self-Ratings and Peer Review (October 2018), job market paper		
Previous versions of this paper were titled <i>Identifying the Best Agent in a Network</i> (first version: 2016).		
A Model of Weighted Network Formation (August 2017)		
2 nd round R&R at <i>Theoretical Economics</i> .		
Previous versions of this paper were titled <i>Time Allocation in Friendship Networks</i> (first version: 2014).		

Demand Cycles and Heterogeneous Conformity Preferences (September 2017)

PRESENTATIONS

2018	Paris School of Economics; Northwestern (Kellogg Strategy); HU Berlin; BiNoMa Workshop; Barcelona GSE Summer Forum: Networks Workshop; Oxford (scheduled)
2017	Third Annual Conference on Network Science and Economics; Coalition Theory Network Annual Workshop; BiNoMa Workshop; University of Kent; Econometric Society European Meeting; VfS Annual Conference; Warsaw University; Networks Reading Group Cambridge
2016	Max Planck Institute for Research on Collective Goods, Bonn; University of Essex; Cambridge-INET Institute (2); University of Bonn; Second Annual Conference on Network Science and Economics, Stanford University; Málaga University; III MOMA Meeting

- 2015 Annual Congress of the European Economic Association; World Congress of the Econometric Society; Annual Conference of the Society for the Advancement for Economic Theory; Coalition Theory Network Annual Workshop; Workshop on Networks, Queen Mary University
- 2014 PhD Seminar, University of Hamburg; Networks Discussion Group, Stanford University

SHORT VISITS

2018	Paris School of Economics (1 week); Northwestern; Stanford (each 2 weeks)
2017	University of Bonn; Warsaw University (each 1 week)

TEACHING EXPERIENCE

Game Theory, Welfare, and Applications & Economics of Uncertainty and Information Supervisions for 2nd year undergraduates in Economics, University of Cambridge, 2016-18

Microeconomics

Tutorial for 1st year undergraduates in Economics (in German), University of Hamburg, summer 2012, 2015

Microeconomics II

Tutorial for 2nd year undergraduates in Economics (in German), University of Hamburg, winter 2013-14

Economics of Information

Tutorial for 3rd year undergraduates in Economics (in German and English), University of Hamburg, winter 2012-14

Microeconomics for Business Administration students

Tutorial for 1st year undergraduates (in German), University of Hamburg, summer 2013

SCHOLARSHIPS AND AWARDS

Econometric Society World Congress Travel Grant, 2015 Hamburglobal, 2014 Travel subsidy out of the corporate capital of the University of Hamburg, 2014, 2015 ERASMUS foreign exchange scholarship, 2008

REFEREE SERVICE

Czech Economic Review, Economics Letters, Journal of Economic Behavior and Organization, Journal of Economic Theory, Journal of Mathematical Economics, Theoretical Economics

ACADEMIC AND ADMINISTRATIVE SERVICE

Organization of Networks Reading Group at Cambridge-INET, since 2016

Organization of Workshop on Networks at Cambridge-INET, 04/2017

Member of the Faculty Council of the Faculty of Business, Economics and Social Sciences, University of Hamburg, 2013-15

Member of the hiring committee for two Assistant Professors in Economics at the Department of Economics, University of Hamburg, 04-06/2011

LANGUAGES

German (native), English (fluent), French (good), Spanish (good)

CITIZENSHIP

German

REFERENCES

Sanjeev Goyal (current advisor) University of Cambridge sg472@cam.ac.uk

Matthew Elliott University of Cambridge mle30@cam.ac.uk

Francis Bloch Paris School of Economics francis.bloch@univ-paris1.fr Anke Gerber (PhD advisor) University of Hamburg anke.gerber@uni-hamburg.de

Matthew Jackson Stanford University jacksonm@stanford.edu

Self-Ratings and Peer Review

Job Market Paper

Previous versions of this paper were titled *Identifying the Best Agent in a Network* (first version: 2016).

The paper designs direct mechanisms without transfers for a principal to always allocate a prize to the best agent when agents' knowledge about each other is determined by a network. Agents send statements about themselves (applications) and about their network neighbors (references) to the principal. Lying is only possible to a certain extent. In this setup, Maskin-/Bayesian-monotonicity and the revelation principle fail. We design a mechanism which implements the choice of the best agent via untruthful equilibria. The mechanism selects an agent for the prize as a function of best applications and worst references. If the network is complete, the mechanism fully implements selecting the best agent. For a larger class of networks, an extended version of the mechanism fully implements the principal's objective, if agents only lie when lying increases their chances of winning. The model relates to employee performance evaluation and peer-review processes in academia.

A Model of Weighted Network Formation

2nd round R&R at *Theoretical Economics*. Previous versions of this paper were titled *Time Allocation in Friendship Networks* (first version: 2014).

Many networks are not only characterised by who is linked to whom but also by the intensity of links. Networks in which links can have different intensities are *weighted networks*. We propose a model of weighted network formation in which homogeneous agents have a limited resource to form links of possibly different intensity with other agents and for private purposes. Both symmetric and asymmetric equilibrium networks are analysed. Each component of an equilibrium network is either "reciprocal" or "non-reciprocal". In reciprocal components, any two agents invest equally into their link. In non-reciprocal components, there exist "diversified" and "concentrated" agents and every diversified agent is only linked to concentrated agents and vice versa. For each link, the concentrated agent invests more into the link than the diversified agent. The different architectures of reciprocal and non-reciprocal equilibrium components are described and comparative statics for equilibrium networks are provided. We show that no equilibrium network is stable against pairwise deviations if agents are not loyal; with loyalty, fully reciprocal equilibrium networks are pairwise stable. Equilibrium networks are never efficient due to positive externalities from network investments.

Demand Cycles and Heterogeneous Conformity Preferences

We analyze the dynamics of the distribution of demand across the population when agents have heterogeneous preferences for conformity and individuality, and can choose from a set of three different consumption options. Agents are continuously distributed on the unit interval and the position of an agent measures her degree of conformity with agent 0 being the most individualistic and agent 1 the most conformist. An agent seeks to imitate others who are more individualistic than she is and seeks to distinguish herself from others who are more conformist

than she is. In each time period, every agent chooses her utility-maximizing consumption option based on the distribution of demand in the previous time period. We show that a large class of initial distributions converges to the same cycle of distributions. Within this cycle, the demand over time for each option resembles a fashion cycle: An option is taken up by a segment of the most individualistic agents first. Then, demand for this option grows and moves through the entire population from individualistic to more conformist agents. At the end of the fashion cycle, only a segment of the most conformist agents still consumes the option because the more individualistic agents have turned to a different one instead. Finally, also conformist agents abandon it. However, after one time period has passed, the fashion cycle for this option starts over again.