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Born on March 24th, 1982 in Berlin, Germany
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Education

PhD System Dynamics, Supervisor: Prof. David Wheat, University of Bergen, Norway, Spring 13 to Fall 17, PhD Thesis: "Intellectual property rights, economic growth, and the business cycle: A dynamic macroeconomic impact assessment study"

MPhil System Dynamics, Supervisor: Prof. Pål Davidsen, University of Bergen, Norway, Fall 09 to Spring 11, Master Thesis: "Discrete events in a continuous system. How to model concrete capacity constraints in a complex assembly line environment"

Exchange student at University of Luxemburg, Luxemburg, Fall 06

Bachelor Degree in Business Administration (Dipl.-Betriebswirt (DH)), Duale Hochschule Baden-Württemberg (Baden-Wuerttemberg Cooperative State University), Germany, Fall 05 to Fall 08

Abitur (General Qualification for University Entrance), Schubart-Gymnasium Ulm, Germany, Spring 01

Research Interests

Decision Theory, System Dynamics, Modelling Theories, Macroeconomics, Economic Assessment Methodologies, Natural Resources, Post-Normal Science

Current Position

University of Talca

Assistant Professor, since November 2019

Previous Positions and Temporary Appointments

M-FIVE GMBH MOBILITY, FUTURES, INNOVATION, ECONOMICS

Senior Economist and Consultant, from Spring 16 to Fall 18

Curriculum Vitae Johannes Hartwig

FRAUNHOFER-ISI INSTITUTE FOR SYSTEMS AND INNOVATION RESEARCH, KARLSRUHE, GERMANY

Research Associate, from Fall 11 to Spring 16

OSRAM OPTO SEMICONDUCTORS GMBH, REGENSBURG, GERMANY

Master Student, from Fall 10 to Spring 11

SERVICE INNOVATION GROUP, ETTLINGEN, GERMANY

Assistant to the Managing Director, Fall 08 to Spring 09

Student Trainee, Fall 05 to Spring 08

Team leader, Fall 04 to Spring 05

Peer Reviewed Publications

“The macroeconomic effects of ambitious energy efficiency policy in Germany – Combining bottom-up energy modelling with a non-equilibrium macroeconomic model”, *Energy* 124(1), 510-520, with Judit Kockat, Wolfgang Schade, and Sibylle Braungardt.

“The Cobweb Theorem and delays in adjusting supply in Copper markets”, *System Dynamics Review* 32(3-4), 279-308, with Simon Glöser-Chahoud, David Wheat, and Martin Faulstich.

“Macroeconomic effects of energetic building retrofit: input-output sensitivity analyses”, *Construction Management and Economics*, 34(2), 79-97, with Judit Kockat.

Peer Reviewed Conference Papers

“Combination of an Evolutionary Agent-Based Model of Transitions in Shipping Technologies with a System Dynamics Expectations Formulation”, *Proceedings of the 2016 Winter Simulation Conference*, with Florian Senger.

“The classical Cobweb Theorem and real commodity market behavior: Modeling delayed adjustment of supply in industrial metals’ markets”, *Proceedings of the 33rd International Conference of the System Dynamics Society*, with Simon Glöser-Chahoud.

“The macroeconomic benefits of ambitious energy efficiency policy – a case study for Germany”, *Proceedings of the 2015 eceee Summer Study on energy efficiency*, with Sibylle Braungardt, Wolfgang Schade, and Judit Kockat.

“Impacts of Climate Mitigation Policies on Sectoral Distribution Effects and overall Economic Growth in Germany”, *Proceedings of the 32nd International Conference of the System Dynamics Society*, with Wolfgang Schade.

“Accelerating a shift from road to rail freight transport in Germany – three scenarios”, *Proceedings of the TRA2014 Transport Research Arena*, with Kilian Frey, and Claus Doll.

Non-technical measures for influencing a shift in freight modal share in Germany in 2030, *Proceedings of the 13th World Conference on Transportation Research*, with Florian Senger, and Claus Doll.

Book Chapters

“Meta-analysis of long-term trip generation modelling” (with André Kühn, Florian Senger, Michael Krail, Wolfgang Schade) in G. Wulfhorst, B. Büttner (Eds.): *Transportation Demand Management. Insights from the mobil.TUM 2012 International Scientific Conference on Mobility and Transport*. TU München, ISBN 978-3-9814676-1-1

“Clean, Safe and Healthy Mobility through Non-Technical Measures – Linking Individual and Public Decision Levels” (with Claus Doll) in G. Wulfhorst, B. Büttner (Eds.): *Transportation Demand Management. Insights from the mobil.TUM 2012 International Scientific Conference on Mobility and Transport*. TU München, ISBN 978-3-9814676-1-1

Expertises

“Zukünftige PKW-Nutzerkosten in Deutschland“ (in German), on behalf of the Federation of German Consumer Organisations vzbv, with Wolfgang Schade, Alex Stewart, and Tristan Dodson.

“Roadmap for an overhead catenary system for trucks: SWOT analysis. Strategic analysis of the overhead catenary system for trucks and competing operating concepts in heavy road freight transport”, on behalf of the German Federal Ministry for the Environment, with Julius Jöhrens, Julius Rücker, Fabian Bergk, and Wolfgang Schade.

“Cost of non-completion of the TEN-T”, on behalf of the European Commission, Directorate General for Mobility and Transport, with Wolfgang Schade, Michael Krail, Christoph Walther, Daniel Sutter, Maura Killer, Markus Maibach, Juan Gomez-Sanchez, and Karin Hitscherich.

“Klimaschutzszenario 2050: 2. Endbericht“ (in German), on behalf the German Federal Ministry for the Environment, with Julia Repenning, Lukas Emele, Ruth Blanck, Hannes Böttcher, Günter Dehoust, Hannah Förster, Benjamin Greiner, Ralph Harthan, Klaus Henneberg, Hauke Hermann, Wolfram Jörß, Charlotte Loreck, Sylvie Ludig, Margarethe Scheffler, Katja Schumacher, Kirsten Wiegmann, Carina Zell-Ziegler, Sibylle Braungardt, Wolfgang Eichhammer, Rainer Elsland, Tobias Fleiter, Judit Kockat, Ben Pfluger, Wolfgang Schade, Barbara Schломann, Frank Sensfuß, and Hans-Joachim Ziesing.

“Klimaschutzszenario 2050: 1. Endbericht“ (in German), on behalf the German Federal Ministry for the Environment, with Julia Repenning, Felix Chr. Matthes, Ruth Blanck, Lukas Emele, Ulrike Döring, Hannah Förster, Markus Haller, Ralph Harthan, Klaus Henneberg, Hauke Hermann, Wolfram Jörß, Peter Kasten, Sylvie Ludig, Charlotte Loreck, Margarethe Scheffler, Katja Schumacher, Wolfgang Eichhammer, Sibylle Braungardt, Rainer Elsland, Tobias Fleiter, Judit Kockat, Ben Pfluger, Wolfgang Schade, Barbara Schломann, Frank Sensfuß, Uwe Athmann, and Hans-Joachim Ziesing.

“Erstellung von Treibhausgas-Emissionsszenarien für den Projektionsbericht 2013“ (in German), on behalf the German Federal Ministry for the Environment, with Felix Chr. Matthes, Julia Repenning, Hauke Hermann, Hannah Förster, Katja Schumacher, Ulrike Döring, Wolfgang Eichhammer, Rainer Elsland, Tobias Fleiter, Judith Kockat, Ben Pfluger, Barbara Schломann, and Jan Steinbach.

“Wirtschaftliche Aspekte nichttechnischer Maßnahmen zur Emissionsminderung im Verkehr“ (in German), on behalf of the Federal Environment Agency of Germany, with Claus Doll, Florian Senger, Wolfgang Schade, Markus Maibach, Daniel Sutter, Damaris Bertschmann, Udo Lambrecht, Wolfram Knörr, and Frank Dünnebeil.

“Renewability II. Szenario für einen anspruchsvollen Klimaschutzbeitrag des Verkehrs“ (in German), on behalf of the Federal Environment Agency of Germany, with Wiebke Zimmer, Florian Hacker, Lothar Rausch, Uwe Fritsche, Rita Cyganski, Andreas Justen, Gunnar Knitschky, Andreas Lischke, Markus Mehlin, Stephan Müller, Wolfgang Schade, and Luisa Sievers.

Other Publications

“Szenarien zur Entwicklung der CO₂- Emissionen im Verkehr bis 2030“ (in German), *Wirtschaftsdienst*, with Florian Hacker, and Rita Cyganski, DOI: 10.1007/s10273-013-1497-1.

“Alterstraumatologie“ (in German), *Orthopädie und Unfallchirurgie up2date 7*, with Sarwiga Riem, and Erich Hartwig, DOI: 10.1055/s-0032-1315024.

Teaching Experience

DHBW Karlsruhe, Germany, “Environmental and Social Policy”, Spring 17 and Spring 18

DHBW Karlsruhe, Germany, “Microeconomics”, Spring 18

DHBW Karlsruhe, Germany, “Introduction to Economics”, Fall 17

DHBW Karlsruhe, Germany, “Economic Policy”, Fall 16 and Fall 17

DHBW Lörrach, Germany, “Macroeconomics”, Fall 15 and Fall 16

Invited Presentations

“Mobilität der Zukunft: welche Herausforderungen kommen auf Niederlassungen zu?“ (in German), Joint Works Council of Daimler AG, Bad Horb, 2017.

“What will sustainable urban mobility infrastructure look like in the future?“ EU Responder – Linking SCP and Growth Debates (framework 7 program), Bratislava, 2013.

“The role of bike in sustainable mobility patterns“, Sustainable2Wheels 2013, Brussels, 2013.

“System Dynamics and Agent-Based Modelling as tools for decision support“, TIP 20th anniversary, OECD, Paris, 2012.

“System Dynamics in der Alterstraumatologie“ (in German), Congress for Traumatology of the Elderly, German Association of Traumatology DGU, Ettlingen, 2012.

Conference Presentations

2015

9. Energiewirtschaftliche Tagung der TU Wien IEWT, Vienna, Austria.

System Dynamics Conference, Boston, USA.

2014

Transport Research Arena, Paris, France.

System Dynamics Conference, Delft, the Netherlands.

2013

World Conference of Transport Research, Rio de Janeiro, Brazil.

2012

Mobil.TUM, Munich, Germany.

Language Skills

German: native

English: fluent

French: moderate

Norwegian: basic

Spanish: basic

Computer Skills

Mathematics: GAMS, Mathematica, Matlab

Statistics: Stata

System Dynamics: Vensim, Powersim

Last updated: March 25, 2019