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## Research and Teaching Interests

Economics of Innovation, Empirical Industrial Organization, Economics of Digitization, Applied Microeconometrics, Computational Economics, Structural Modelling

## Current Positions and Affiliations

5.2024-present	Postdoctoral researcher at the Hoover Institution, Stanford University
12.2023-present	Visiting researcher at KU Leuven Department of Managerial Economics, Strategy and Innovation (MSI)
4.2024-present	Junior Research Associate at ZEW – Mannheim, Mannheim Department of Innovation Economics and Industrial Dynamics

## Past Positions and Affiliations

10.2017-4.2024	Researcher at ZEW – Leibniz Centre for European Economic Research, Mannheim Department of Innovation Economics and Industrial Dynamics
1112.2023	<b>Visiting Scholar</b> at Hoover Institution, Stanford University, invited by Kenneth L. Judd
10.2017-11.2023	<b>PhD student</b> at KU Leuven Department of Managerial Economics, Strategy and Innovation (MSI), Supervisor Prof. Dirk Czarnitzki
8.2022	<b>Visiting Scholar</b> at Hoover Institution, Stanford University, invited by Kenneth L. Judd
01.2022-05.2022	<b>Visiting Scholar</b> at Pennsylvania State University Department of Economics, invited by Prof. Mark Roberts
8.2021	<b>Visiting Scholar</b> at University of Ghent Department of Marketing, Innovation and Organisation, invited by Prof. Maikel Pellens
2019	<b>External Lecturer</b> at Baden-Wuerttemberg Cooperative State University, Advanced Microeconomics (undergraduate level)
2015-2016	Research Assistant at GESIS - Leibniz-Institute for the Social Sciences

### Education

2017-2023	PhD in Business Economics at KU Leuven, Department of Managerial Economics, Strategy and Innovation (MSI)
2019-2020	<b>Visiting Student</b> at University of Mannheim Department of Economics
2016-2017	Master of Science in Economics at KU Leuven Major: Research in Economics (cum laude) Advanced Econometrics, Structural Modeling, Dynamic Methods, Game Theory, Industrial Organization
2013-2016	<b>Bachelor of Science in Economics</b> at University of Mannheim Economic Theory, Microeconomics, Econometrics, Statistics

### Research

### Publications in Peer-Reviewed Journals

- Pandemic Effects: Do Innovation Activities of Firms Suffer from Long-COVID?, with Bettina Peters, Dirk Czarnitzki, and Christian Rammer, Research Policy, Link

### Discussion Papers and Rsearch in Progress

- Carbon Pricing and Innovation: The Impact of the European Carbon Trading System, Link
- Choosing Technologies: Benefits of Investing into the Development of Fourth Industrial Revolution Related Technologies, with Bettina Peters, Link
- Efficient Estimation of Likelihood Ratio Confidence Sets, with Kenneth L. Judd and Gregor Reich
- Competition from China in the Product and Input Markets and Innovation in Germany, with Philipp Böing, Pierre Mohnen, and Loren Brandt
- Measuring Organisation Capital at the Firm Level: A Production Function Approach, with Christian Rammer and Felix Roth, ZEW Discussion Paper, Link
- Industry 4.0 Related Innovation and Firm Growth, with Vanessa Behrens, ZEW Discussion paper, Link

### **Contract Research and Projects**

- Focus Study on Technology markets (Schwerpunktstudie Technologiemärkte), 2023, <u>Link</u>, *Commission of Experts for Research and Innovation*
- Growth Welfare Innovation and Productivity (GROWINPRO), European Commission
- Mannheim Innovation Panel: Innovation Activities of German Enterprises, German Ministry for Education and Research
- Swiss Report on Research and Innovation, 2018, Swiss State Secretariat for Education, Research, and Innovation

- Investments in New Forms of Knowledge-Based Capital (INFOWIK), German Ministry for Education and Research.
- Innovation Activity of Companies in East Germany since Reunification (Innovationstätigkeit der Unternehmen in Ostdeutschland seit der Wiedervereinigung), Commission of Experts for Research and Innovation
- Development of Research and Development Expenditure in Germany in an International Comparison (Entwicklung der Forschungs- und Entwicklungsausgaben in Deutschland im internationalen Vergleich), KfW Credit Institute for Reconstruction

#### Dissemination

- News article in German business news magazin **Wirtschafts Woche** on *Pandemic Effects* study (14.4.2023), Link
- **WIPO GII Report** 2022 Capter Expert Contribution: Productivity impact of the Fourth Industrial Revolution, *with Bettina Peters*, <u>Link</u>

## Conference Organisation

- 9<sup>th</sup> ZEW/MaCCI Conference on the Economics of Innovation and Patenting (Mannheim, Germany), 2022
- 8<sup>th</sup> ZEW/MaCCI Conference on the Economics of Innovation and Patenting (Mannheim, Germany), 2019

## **Invited Seminar Presentations**

- CIS seminar series, BETA, University of Strasbourg, 2023

## Research Presentations

- Comparative Analysis of Enterprise Data (CAED) (State College, USA), 2024
- 50<sup>th</sup> EARIE Annual Conference (Rome, Italy), 2023
- 28<sup>th</sup> Annual Conference of the European Association of Environmental and Resource Economists (EAERE) (Limassol, Cyprus), 2023
- DRUID Conference (Lisbon, Portugal), 2023

- 19<sup>th</sup> CEPR/JIE School on Applied Industrial Organization (Cambridge, England), 2023
- Poster presentation at Munich Summer Institute (Munich, Germany), 2023
- 11<sup>th</sup> Mannheim Conference on Energy and the Environment (Mannheim, Germany), 2023
- 9<sup>th</sup> ZEW/MaCCI Conference on the Economics of Innovation and Patenting (Mannheim, Germany), 2022
- Munich Summer Institute Ph.D Workshop (Munich, Germany), 2022
- Eu-SPRI conference (Utrecht, Netherlands), 2022
- International Industrial Organization Conference (Boston, USA), 2022
- IP and Innovation Virtual Seminar (online), 2022
- Applied Microeconomics Seminar Pennsylvania State University (State College, USA), 2022
- CONCORDi Conference (online), 2021
- 17<sup>th</sup> CAED Conference (Coimbra, Portugal), 2021
- DRUID Conference (Copenhagen, Denmark), 2021
- 16<sup>th</sup> European Policy for Intellectual Property Conference (EPIP) PhD Workshop (Madrid, Spain), 2021
- 48<sup>th</sup> EARIE Annual Conference (Bergen, Norway), 2021
- 18<sup>th</sup> ISS International Schumpeter Society Conference (Rome, Italy (online)), 2021
- 9<sup>th</sup> KID 2021 Summerschool on Knowledge Dynamics, Industry Evolution, Economic Development (Nice, France), 2021
- MaCCI IO Day at University of Mannheim (Mannheim, Germany (online)), 2021
- ZEW Joint PhD Workshop on Innovation, Entrepreneurship and Competition (online), 2020
- 8<sup>th</sup> PhD Workshop Economics of Innovation, Complexity and Knowledge (Turin, Italy (online)), 2020
- CISS, 9<sup>th</sup> Competition and Innovation Summer School (Ulcinj, Montenegro), 2019
- CISS, 8<sup>th</sup> Competition and Innovation Summer School (Ulcinj, Montenegro), 2018

## Referee for Journals

International Journal of Industrial Organization (IJIO), Research Policy, Journal of Economic Behavior and Organization, European Journal of Political Economy, Industry and Innovation, Eurasian Business Review

## Skills

#### **Programming Languages:**

Julia (advanced) | Python (advanced) | Matlab (advanced) | Stata (advanced) | LaTeX(advanced) | R (intermediate) | SQL (basic) | C++ (basic) | Fortran (basic) | HTML (basic).

### **Operating Systems:**

Microsoft Windows | Linux (Debian, Ubuntu).

#### **Further Software:**

Visual Studio Code, Git, Microsoft Office Suite, Mendeley.

#### Programming skills:

Programming quantitative economic and statistical models | numerical optimization | numerical integration | function approximation | simulation methods | parallelization | processing of large data sets | run-time optimization and benchmarking.

#### Mathematical and statistical skills:

Structural economic modeling | structural estimation | dynamic programming models | stochastic models | causal inference models | numerical methods.

## Other

- YES! - Young Economic Summit, 2018-2019, leading student teams in preparation and competition

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