



## Upcoming Seminars

### Wednesday, 11.1.2023 Internal Seminar

12.15-13.15  
AWI room 00.010

Melanie Arntz  
"Task Shifts in the Fourth Industrial Revolution - Firm-  
Level Evidence"

## Abstracts

### Internal Seminar

Melanie Arntz

"Task Shifts in the Fourth Industrial Revolution - Firm-Level Evidence"\*

Computerization has replaced workers in routine occupations and resulted in job polarization. This paper links administrative employment data with a novel firm survey to distinguish computerization from older and cutting-edge technologies. We find that the decline of routine tasks is not linked to technology adoption within firms. Instead, de-routinization can be explained by scale and composition effects of adopting cutting-edge technologies, such as Artificial Intelligence: large adopters at the outset replace more routine tasks, and initially less routine-intensive adopters grow faster. This suggests that successful technology adoption requires complementary investments in re-training and organizational change.

\* with Sabrina Genz, Terry Gregory, Florian Lehmer and Ulrich Zierahn

## Talks and Research visits

**Sarah Arndt** presented the paper "Shock transmissions in different inflation regimes" (joint work with Zeno Enders) at the 3rd HeiTüHo Workshop on International Financial Markets, Stuttgart-Hohenheim, December 16-17.

**Zeno Enders**, together with Gernot Müller (Tübingen) and Michael Evers (Hohenheim) organized the *3rd HeiTüHo Workshop on International Financial Markets*, Stuttgart-Hohenheim, December 16-17.

**Stefan Trautmann** gave a keynote lecture on "Uncertainty and the Unforeseen" at the CEAR/MRIC Behavioral Insurance Workshop, Munich, December 13, 2022.

## New Publications

Timo Dimitriadis, Lutz Dümbgen, Alexander Henzi, Marius Puke and Johanna Ziegel: "Honest Calibration Assessment for Binary Outcome Predictions (2022+)", *Biometrika* (find [here](#))

Tilman Gneiting, Daniel Wolfram, Johannes Resin, Kristof Kraus, Johannes Bracher, Timo Dimitriadis, Veit Hagenmeyer, Alexander I. Jordan, Sebastian Lerch, Kaleb Phipps and Melanie Schienle: "Model Diagnostics and Forecast Evaluation for Quantiles (2023)", *Annual Review of Statistics and its Application*, (find [here](#)).

Trautmann, S. T. (2022). Procedural Fairness and Equality of Opportunity. *Journal of Economic Surveys*, forthcoming.

Editorial deadline for issue 02/2023 of the newsletter:  
Wednesday, January 11, 2023, 12 p.m.  
[newsletter@awi.uni-heidelberg.de](mailto:newsletter@awi.uni-heidelberg.de)