
Contact anton.pichler@wu.ac.at
Website <http://anton-pichler.com/>

Current position

Since 10/2023 Supply Chain Analytics (tenure track) Vienna Univ. of Economics and Business (WU)
2021-2023 JSMF Postdoctoral Fellow Complexity Science Hub, Vienna
Since 2021 Associate Fellow INET, University of Oxford

Education

2017-2021 PhD Mathematics University of Oxford
2015-2017 MSc Quantitative Finance Vienna University of Economics and Business
2012-2015 BSc Economics University of Vienna (Exchange at NYU)
2011-2014 BA Political Science University of Vienna

Peer-reviewed publications

- 2023 **Pichler**, Diem, Brintrup, Lafond, Magerman, Buiten, Carvalho, Farmer Thurner: Building an alliance to map global supply networks. *Science*
- 2023 Pangallo, Aleta, del Rio-Chanona, **Pichler**, Martin-Corral, Chinazzi, Lafond, Ajelli, Moro, Moreno, Vespignani, Farmer: The unequal effects of the health-economy tradeoff during the COVID-19 pandemic. *Nature Human Behavior*
- 2022 **Pichler**, Pangallo, del Rio-Chanona, Lafond, Farmer: Forecasting the propagation of pandemic shocks with a dynamic input-output model. *J Economic Dynamics & Control*
- 2022 Dablander, **Pichler**, Cika, Bacilieri: Anticipating critical transitions in psychological systems using early warning signals. *Psychological Methods*
- 2021 Hötte, **Pichler**, Lafond: The rise of science in low-carbon energy technologies. *Renewable & Sustainable Energy Reviews*
- 2021 **Pichler**, Farmer: Simultaneous supply and demand constraints in input-output networks: the case of Covid-19 in Germany, Italy, and Spain. *Economic Systems Research*
- 2021 **Pichler**, Poledna, Thurner: Systemic-risk-efficient asset allocations: Minimization of systemic risk as a network optimization problem. *J Financial Stability*
- 2020 del Rio-Chanona, Mealy, **Pichler**, Lafond, Farmer: Supply and demand shocks in the Covid-19 pandemic: An industry and occupation perspective. *Oxford Review of Economic Policy*
- 2020 Diem, **Pichler**, Thurner: What is the Minimal systemic risk in financial exposure networks? *J Economic Dynamics & Control*

Working papers

- 2020 **Pichler**, Pangallo, del Rio-Chanona, Lafond, Farmer: Production networks and epidemic spreading: How to restart the UK economy? *CEPR Covid Economics*
- 2020 **Pichler**, Lafond, Farmer: Technological interdependencies predict innovation dynamics.

Other publications

- 2022 **Pichler**, Hurt, Reisch, Stangl, Thurner: Austria without Russian natural gas? Expected economic impacts of a drastic gas supply shock and mitigation strategies. *CSH Policy Brief*
- 2022 **Pichler**, Reisch, Stangl, Thurner: Wie abhängig ist Österreichs Wirtschaft von Erdgas? *CSH Policy Brief*
- 2020 **Pichler**, Mealy, Farmer, Lafond, del Rio-Chanona: Predicting the supply and demand shocks of the COVID-19 pandemic. *CEPR VoxEU column*
- 2020 **Pichler**, Pangallo, Farmer, Lafond, del Rio-Chanona: Production networks and epidemic spreading: Re-opening the UK economy. *CEPR VoxEU column*

Selected Talks

- 2023: Workshop. Bridging the gap between history & policy, Max Planck Institute, Jena (upcoming)
Workshop. Complex system approaches to 21st century challenges, Santa Fe Institute
- 2022: Conference on complex systems (CCS), Palma
Conference. MTNS, Bayreuth (virtual)
Seminar. Santa Fe Institute
Conference. European Society for Ecological Economics, Pisa
Seminar. Technical University Chemnitz
Workshop. Production networks, World Bank, Washington DC
- 2021: OECD NAEC Innovation Lab (virtual)
ESRC Rebuilding macroeconomics (virtual)
- 2020: Conference on complex systems (CCS) (virtual)
Conference on complex networks & their applications (virtual)
Conference. NetSci (network science) (virtual)
Seminar. INET Young Scholar Initiative (virtual)
Seminar. Sant'Anna School for Advanced Studies, Pisa (virtual)
Seminar. Department of Computational Sciences, George Mason University (virtual)
Workshop. Mathematical Interdisciplinary Research (MIR@W), Warwick
Workshop. Economics of innovation, complexity and knowledge (WICK#7), Turin
- 2019: Workshop. Social networks, European Association of Young Economists (EAYE), Paris
Conference. Corporate R&D and innovation (CONCORDi), Sevilla
- 2018: Conference. Political economy of finance, Oxford
- 2017: Conference. Network models and stress testing for financial stability, Mexico City

Scientific services

Teaching and supervision

- 2023 Master's course. Supply Chain Analytics: Optimization and Simulation (WU)
- 2019 Master thesis co-supervision in financial economics (University of Oxford)
- 2019 TA in Networks (Mathematical Institute, University of Oxford)

Peer reviewing (selected)

- Journals: Joule, Economic Systems Research, Climate Policy, Advances in Complex Systems, Physica A, North American J Economics and Finance, J Evolutionary Economics
- Conferences: NetSci 2023
- Grant proposals: OeAD APPEAR

Activities

- 2024 Organizer, 4th Interdisciplinary workshop on firm-level supply networks
- 2024 Editor, Book Series, *The Economy as an Evolving Complex System*
- 2024 Guest editor, Journal special issue, J Economic Behavior and Organization
- 2023 Organizer, Policy forum on *Firm-level supply network data for policy making*
- 2022 Organizer, 1st Interdisciplinary workshop on firm-level supply networks

Awards

- 2021 Best paper award (3rd prize), ESRC Rebuilding Macroeconomics
- 2020 James McDonnell Postdoctoral Fellowship in complex systems
- 2019 Theodor Körner Prize
- 2014 Class of Excellence at the Department of Economics, University of Vienna
- 2013, 14 Merit scholarships in political science & economics, University of Vienna

Non-academic career

2021-now	Own business	Self-employed scientist
2016	PwC Austria	Internship, Power & Utilities
2015	Raiffeisen Bank International	Internship, Accounting Architecture
2013	European Parliament	Internship in MEP office
2011-12	Military Music Corps	Conscript and temporary-career volunteer
2007-11	Böhler-Uddeholm	Apprenticeship industrial electrical engineering

Other education

2019	Complex System Summer School (CSSS) at the Santa Fe Institute, USA
2018	Young Scientist Summer Program (YSSP) at IIASA, Austria
2018	IMPRESSIONS summer school on climate change, Bulgaria
2016	Coursera: The science and modeling of climate change, University of Chicago

Languages

German (native), English (fluent), French (basic)

Programming and software

Advanced: R, \LaTeX , Matlab, STATA, Gephi

Working knowledge: Python, Mathematica, AMPL, Netlogo, EViews, Bloomberg, TR Datastream