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Work Experience

Senior Economist AUSTRIAN INSTITUTE FOR ECONOMIC RESEARCH (WIFO)	Jun 2022 - now Vienna, Austria
Consultant THE WORLD BANK	2022 - now Washington DC, USA
Assistant Professor VIENNA UNIVERSITY OF ECONOMICS AND BUSINESS (WU)	Oct 2013 - Oct 2024 Vienna, Austria
Research Scholar INTERNATIONAL INSTITUTE FOR APPLIED SYSTEMS ANALYSIS (IIASA)	Jan 2017 - Jun 2023 Laxenburg, Austria
Research Director CENTER FOR ECONOMIC RESEARCH PAKISTAN (CERP)	Sep 2011 - Aug 2013 Lahore, Pakistan
Research Associate LAHORE UNIVERSITY OF MANAGEMENT SCIENCES (LUMS)	Jul 2004 - Jun 2007 Lahore, Pakistan

Education

Habilitation in Economics VIENNA UNIVERSITY OF ECONOMICS AND BUSINESS	Oct. 2020 Vienna, Austria
Ph.D. in Economics NEW SCHOOL FOR SOCIAL RESEARCH	2007 - 2012 New York, USA
MSc. in Economics LAHORE UNIVERSITY OF MANAGEMENT SCIENCES (LUMS)	2003 - 2004 Lahore, Pakistan
BSc. (Hons.) in Economics and Management UNIVERSITY OF LONDON EXTERNAL PROGRAMME	1998 - 2001 Lahore, Pakistan

Selected Papers

- Zwickl, K., Milkin, X., **Naqvi, A.** (2024). Sociodemographic disparities in ambient particulate matter exposure in Austria. *Ecological Economics*.
- Peer, S., **Naqvi, A.**, Müller, J., Straub, M. (2024). Introducing Shared, Electric, Autonomous Vehicles (SAEVs) in sub-urban zones: Simulating the case of Vienna. *Transport Policy*.
- Naqvi, A.**, Peer, S., Müller, J., Straub, M. (2023). The spatial-temporal exposure to traffic-related Particulate Matter emissions. *Transportation Research Part D: Transport and Environment*.
- Onaran, O., and Dunz, N., **Naqvi, A.** (2023). BinD: A Model of Growth, Climate Change, and Debt Sustainability. *SSRN Working Paper*.
- Dalstein, F., **Naqvi, A.** (2022). 21st Century Water Withdrawal Decoupling: A Pathway to a more Water-wise World? *Water Resource and Economics*.
- World Bank Group (2022). *Pakistan Country Climate and Development Report (CCDR)*.
- Tanaka, H., Dunz, N., Yoshioka, N., Mochizuki, J., **Naqvi, A.** (2022). Building Back Better in Small Island Developing States in the Pacific: Initial Insights from the BinD Model of Disaster Risk Management Policy Options in Fiji. *Asian Development Bank report*.
- Naqvi, A.**, Monasterolo, I. (2021). Assessing the cascading impacts of natural disasters in a multi-layer behavioral network framework. *Nature Scientific Reports*.
- Naqvi, A.** (2021). Decoupling trends of emissions across EU regions and the role of environmental policies. *Journal of Cleaner Production*.
- Dunz, N., **Naqvi, A.**, Monasterolo, I. (2021). Climate Transition Risk, Climate Sentiments, and Financial Stability in a Stock-Flow Consistent approach. *Journal of Financial Stability*.
- Naqvi, A.**, Hochrainer-Stigler, S., Gaupp, F. (2020). The Risk and Consequences of Multiple Breadbasket Failures: An Integrated Copula and Multi-layer Agent-Based Modeling Approach. *OR Spectrum*.
- Naqvi, A.** (2021). COVID-19 European Regional Tracker. *Nature Scientific Data*.
- Mochizuki, J., **Naqvi, A.** (2019). Reflecting Disaster Risk in Development Indicators. *Sustainability*.
- de Schutter, L., Bruckner, M., Guljum, S., Häyhä, T., **Naqvi, A.**, Omann, I., Stagl, S. (2019). Sustainable bioeconomy transitions through the lens of coupled social-ecological systems. *Sustainability*.
- Naqvi, A.**, Stockhammer, E. (2018). Directed Technological Change in a Post-Keynesian Ecological Macromodel. *Ecological Economics*.
- Bennett, D., **Naqvi, A.**, Schmidt, W-P. (2018). Learning, Hygiene, and Traditional Medicine. *The Economic Journal*.
- Naqvi, A.** (2017). Geo-simulations as a policy toolkit for natural disasters. *World Development*.
- Naqvi, A.**, Zwickl, K. (2017). Fifty Shades of Green: Revisiting Decoupling by Economic Sectors and Air Pollutant. *Ecological Economics*.
- Naqvi, A.**, Rehm, M. (2017). Chapter 13: Agent-based simulations as an early warning system for natural disasters. In book, *Theory and Method of Evolutionary Political Economy: A Cyprus Symposium*, eds. Hardy Hanappi, Savvas Katsikides, Manuel Scholz-Wäckerle, pp.214–235. Taylor and Francis, UK.
- Jackson, T., Victor, P., **Naqvi, A.** (2015). Towards a Stock-Flow Consistent Ecological Macroeconomics, ESRC Passage Working paper Series 15-02.

- **Naqvi, A.** (2015). *Modeling Growth, Distributions and the Environment in a Stock-flow consistent Framework*. *WWWforEurope Policy Paper 18*.
- Bennett, D., **Naqvi, A.**, Schmidt W-P. (2015). *Constraints on Compliance and the Impact of Health Information in Rural Pakistan*. *Health Economics*.
- **Naqvi, A.** (2015). *Modeling Growth, Distributions and the Environment in a Stock-flow consistent Framework*. *WWWforEurope Policy Paper 18*.
- **Naqvi, A.**, Rehm, M. (2014). *A Multi-Agent Model of a Low Income Economy: Simulating the Distributional Effects of Natural Disasters*. *Journal of Economic Interaction and Coordination*.
- **Naqvi, A.**, Rehm, M. (2014). *Simulating Natural Disasters - A Complex Systems Framework*. 2014 IEEE Conference Proceedings on Computational Intelligence for Financial Engineering & Economics (CIFER), 27–28 March, London, UK.

Selected Projects

Supply Chain Intelligence Institute Austria (ASCII)

FEDERAL MINISTRY OF LABOR AND ECONOMY (AUSTRIA), PROVINCE OF UPPER AUSTRIA

2023 –

Second Austrian Assessment Report on Climate Change (AAR2)

CLIMATE CHANGE CENTER AUSTRIA (CCCA)

2022 – 2025

Robust supply chains for agricultural goods and food in Austria (ROBVEK)

FEDERAL MINISTRY OF AGRICULTURE, REGIONS AND TOURISM (BML, AUSTRIA)

2022 – 2023

Distributional effects of climate shocks – A macroeconomic perspective (DiOD)

AUSTRIAN NATIONAL BANK (ÖNB, AUSTRIA)

2021 – 2023

Scaling-up green finance to achieve the climate and energy targets: An assessment of macro-financial opportunities and challenges for Austria (GREENFIN)

AUSTRIAN CLIMATE RESEARCH PROGRAM (ACRP, AUSTRIA)

2019 – 2021

An empirical analysis of environmental inequality in the EU (EnvINEQEU)

AUSTRIAN SCIENCE FUND (FWF, AUSTRIA)

2019 – 2022

Simulating the environmental and socio-economic effects of shared autonomous electric vehicles: The case of Vienna (SIMSAEV)

AUSTRIAN CLIMATE RESEARCH PROGRAM (ACRP, AUSTRIA)

2018 – 2021

Sustainable Growth in the Presence of Complex Financial Markets

AUSTRIAN NATIONAL BANK (ÖNB, AUSTRIA)

2017 – 2019

Internal Displacement Risk (IDR)

OFFICE OF U.S. FOREIGN DISASTER ASSISTANCE (USAID-OFDA, USA), IDMC (SWITZERLAND)

2017 – 2018

Pathways towards a Prosperous and Just EU Bioeconomy (BIOWAY)

AUSTRIAN NATIONAL BANK (ÖNB, AUSTRIA)

2016 – 2018

Welfare, Wealth and Work for Europe (WWW4Europe)

HORIZON 2020 (VIENNA, AUSTRIA)

2012 – 2016

Miscellaneous

Reviewing activities

- Nature Climate Change, Nature Human Behavior, Climate Policy, Climatic Change, Journal of Financial Stability, Journal of Cleaner Production, Ecological Economics, International Journal of Disaster Risk Reduction, Regional Environmental Change, Journal of Evolutionary Economics, Environmental Economics and Policy Studies, European Sociological Review, Journal of Economic Interaction and Coordination, Journal of Computational Social Science, Stata Journal, Water Resource and Economics, Austrian National Bank (ÖNB), Federal Ministry of Education and Research (BMBF, Germany), Dutch Research Council (NWO).

Data science

- Author of the following Stata packages: [alluvial](#), [arcplot](#), [bimap](#), [bumparea](#), [bumpline](#), [circlebar](#), [circlepack](#), [clipgeo](#), [delaunay](#), [graphfunctions](#), [joyplot](#), [marimekko](#), [sankey](#), [schemepack](#), [spider](#), [splinefit](#), [streamplot](#), [sunburst](#), [ternary](#), [treecluster](#), [trimap](#), [treemap](#), [waffle](#).
- Co-authored Stata package [drdid](#) that implements the Doubly-Robust Difference-in-Difference estimator ([Sant'Anna and Zhao 2020](#)).
- Online publication: [The Stata Guide on Medium](#).
- Online publication: [The Stata Gallery on Medium](#).
- [COVID-19 European Regional Tracker](#) that tracked daily cases at the NUTS3 level for 26 countries.

Skills

- **Computer softwares and languages:** Proficient in Stata, QGIS, ArcGIS, NetLogo, Mathematica, Markdown, LaTeX. Working knowledge of R, MATLAB, Python, Hugo, Ruby, C++, JavaScript.
- **Spoken languages:** English (High proficiency), German (B2), Urdu (Native)