Asjad Naqvi, Ph.D.

AUSTRIAN INSTITUTE OF ECONOMIC RESEARCH (WIFO)

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Education

Habilitation in Economics   *Oct. 2020*
VIENNA UNIVERSITY OF ECONOMICS AND BUSINESS   *Vienna, Austria*

Ph.D. in Economics   *2007 - 2012*
NEW SCHOOL FOR SOCIAL RESEARCH   *New York, USA*

MSc. in Economics   *2003 - 2004*
LAHORE UNIVERSITY OF MANAGEMENT SCIENCES (LUMS)   *Lahore, Pakistan*

BSc. (Hons.) in Economics and Management   *1998 - 2001*
UNIVERSITY OF LONDON EXTERNAL PROGRAMME   *Lahore, Pakistan*

Work Experience

Senior Economist   *Jun 2022 -*
AUSTRIAN INSTITUTE FOR ECONOMIC RESEARCH (WIFO)   *Vienna, Austria*

Short-term Consultancies for various projects   *2022 -*
THE WORLD BANK   *Washington DC, USA*

Research Scholar   *Jan 2017 - Jun 2023*
INTERNATIONAL INSTITUTE FOR APPLIED SYSTEMS ANALYSIS (IIASA)   *Laxenburg, Austria*

Assistant Professor   *Oct 2013 - Aug 2023*
VIENNA UNIVERSITY OF ECONOMICS AND BUSINESS (WU)   *Vienna, Austria*

Research Director   *Sep 2011 - Aug 2013*
CENTER FOR ECONOMIC RESEARCH PAKISTAN (CERP)   *Lahore, Pakistan*

Research Associate   *Jul 2004 - Jun 2007*
LAHORE UNIVERSITY OF MANAGEMENT SCIENCES (LUMS)   *Lahore, Pakistan*

Publications

Journal articles

- 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*.
- **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 Modelling 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*.
- Bennett, D., **Naqvi, A.**, Schmidt W-P. (2015). Constraints on Compliance and the Impact of Health Information in Rural Pakistan. *Health Economics*.
- **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*.

Working papers, book chapters, reports

- Kettner, C., Falkner, K., Kletzan-Slamanig, D., Köppl, A., Meyer, I., **Naqvi, A.**, Renhart, A., Sinabell, F., Sommer, M., van Dyck, C. (2023). Schlüsselindikatoren zu Klimawandel und Energiewirtschaft 2023. Sonderthema: Das "Fit for 55" - Paket der Europäischen Kommission. WIFO Monatsberichte (monthly reports) 96(9) p/ 595-611.
- Warum, P., **Naqvi, A.**, Sinabell, F., Folberth, C. (2023). Visualizing the complexity, fragility and risks of food and nutrient supply-chains across and within the EU. ROBVEK Work Package 3 Final Report.
- World Bank Group (2022). Pakistan Country Climate and Development Report (CCDR). *Lead author and coordinator for climate modeling in Chapters 2 and 5.*
- 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*.
- Peisker, J., **Naqvi, A.** (2021). Distributional impact of flooding across European regions and sectors. *Draft.*
- Cheema, A., **Naqvi, A.**, Naseer, F., Siddiqui, B. (2022). Understanding the historic land institutions, inequality, and long-run development in a Regression Discontinuity Design. *Working paper.*
- Rehm, M., **Naqvi, A.**, Hofmann, J. (2016). Different but equal? Classes, wealth, and perceptions in Europe. *Working paper, Arbeiterkammer (AK) Wien.*
- **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.*
- **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.
- **Naqvi, A.** (2012). Coping Mechanisms and Inequality in a Multi-agent Framework. *Working Paper. International Institute for Applied Systems Analysis (IIASA).*

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*

Coalition for Capacity on Climate Action (C3A)
EFI Chief Economist's Office, The World Bank *2022 – 2025*

Pakistan's Climate Change Development Report (CCDR)
The World Bank *2022 – 2022*

COVID-19 tracker for European regions
IIASA *2020 – 2022*

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*

Possibilities of consciously shaping mobility through the application of the principle of sufficiency in the Austrian context (MOBALANCE)
Austrian Research Promotion Agency (FFG, Austria) *2018 – 2019*

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*

Microbe Literacy Health Initiative (MLI)

UBS OPTIMUS FOUNDATION (SWITZERLAND) *2013 – 2016*

Building Capacity to use Research Evidence (BCURE)

DEPARTMENT FOR INTERNATIONAL DEVELOPMENT (DfID, UK) *2014 – 2019*

Centers for Learning on Evaluation and Results (The CLEAR Initiative)

THE INDEPENDENT EVALUATION GROUP (IEG, WORLD BANK) *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

- COVID-19: Socioeconomic indicators for Europe
- COVID-19 European Regional Tracker
- The Difference-in-Difference Guide
- Blog: The Stata Guide on Medium
- Blog: The Stata Gallery on Medium
- Guest post: Making visually appealing maps in Stata on the World Bank Development Impact blog.
- Author of the following Stata packages: alluvial, arcplot, bimap, bumparea, bumpline, circlebar, circlepack, clipgeo, delaunay, joyplot, marimekko, sankey, schemepack, spider, streamplot, sunburst, treecluster, treemap
- Co-authored Stata package drdid that implements the Doubly-Robust Difference-in-Difference estimator (Sant'Anna and Zhao 2020).

Skills

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