Asjad **Naqvi, Ph.D.**

✉ asjadnaqvi@gmail.com | 🏠 asjadnaqvi.github.io | asjadnaqvi | in asjadnaqvi | 🐦 asjadnaqvi

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 publications

- Hayward, R., **Naqvi, A.**, Klimek, P. (2026). US and EU Aid and Trade: Different Priorities, Divergent Impacts, and the Relationships with Human and Environmental Crises. *Forthcoming, Nature Communications Sustainability*.
- **Naqvi, A.** (2025). Evaluating Tariff Shock Propagation in an Integrated Demand System-MRIO Framework. *SSRN preprint*.
- **Naqvi, A.** (2025). Global demand and supply elasticities and the impact of tariff shocks. *SSRN preprint*.
- Neier, T., **Naqvi, A.**, Meyer, I. (2025). Virtual Water: Hidden Risks in Europe's Regional Supply Chains. *Under preparation*.
- Kaniovsky, S., **Naqvi, A.** (2025). Quantifying External Trade Risks. *Under preparation*.
- 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*.
- Onaran, O., and Dunz, N., **Naqvi, A.** (2023). BinD: A Model of Growth, Climate Change, and Debt Sustainability. *SSRN Working Paper*.
- **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*.
- 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 for Economy, Energy, and Tourism (Austria), Province of Upper Austria *2023 – 2026*

Präventive Handlungsoptionen für eine Neuausrichtung einer wirtschaftlichen Sicherheitsstrategie Österreichs (PHOENIGS)
Federal Ministry for Economy, Energy, and Tourism (Austria), Ministry of Defense (Austria), FFG (Austria) *2024 – 2025*

Second Austrian Assessment Report on Climate Change (AAR2)
Lead Author, Climate Change Center Austria (CCCA) *2022 – 2025*

Robust supply chains for agricultural goods and food in Austria (ROBVEK)
Federal Ministry of Agriculture and Forestry, Climate and Environment Protection, Regions and Water Management (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

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

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 (C1+), Urdu (Native)