

# Asjad Naqvi, Ph.D.

AUSTRIAN INSTITUTE OF ECONOMIC RESEARCH (WIFO), ARSENAL, OBJEKT 20, VIENNA 1030, AUSTRIA

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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 (WU)

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). **United States and European Union aid cuts risk exacerbating links between aid, trade, and human and environmental crises.** *Nature Communications Sustainability* 1(12).
- **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

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### Estimating sectoral elasticities for European countries

EUROPEAN COMMISSION ECONOMICS AND FINANCIAL AFFAIRS (DG-ECFIN)

2025 – 2026

### 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

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### Data science and blogs

- Published Stata packages: [alluvial](#), [arcplot](#), [bimap](#), [bumparea](#), [bumpline](#), [circlebar](#), [circlepack](#), [clipgeo](#), [delaunay](#), [geoboundary](#), [geoflow](#), [graph-functions](#), [marimekko](#), [polarspike](#), [ridgeline](#), [sankey](#), [schemepack](#), [spider](#), [splinefit](#), [streamplot](#), [sunburst](#), [ternary](#), [tidytuesday](#), [treecluster](#), [trimap](#), [treemap](#), [waffle](#), [vcontrol](#).
- 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)