💌 asjadnaqvi@gmail.com | 🎢 asjadnaqvi.github.io | 🕡 asjadnaqvi | 🛅 asjadnaqvi | 💆 asjadnaqvi | 🎏 Google scholar

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 - present AUSTRIAN INSTITUTE FOR ECONOMIC RESEARCH (WIFO) Vienna, Austria **Consultant** Apr 2022 - present THE WORLD BANK Washington DC, USA **Research Scholar** Jan 2017 - present INTERNATIONAL INSTITUTE FOR APPLIED SYSTEMS ANALYSIS (IIASA) Laxenburg, Austria **Assistant Professor** Oct 2013 - present VIENNA UNIVERSITY OF ECONOMICS AND BUSINESS (WU) Vienna, Austria **Research Director** Sep 2011 - Aug 2013 CENTER FOR ECONOMIC RESEARCH PAKISTAN (CERP) Lahore, Pakistan **Board Member** Sep 2009 - present MICROBE LITERACY INITIATIVE (MLI) New York, USA **Research Associate** Jul 2004 - Jun 2007 LAHORE UNIVERSITY OF MANAGEMENT SCIENCES (LUMS) Lahore, Pakistan

Papers and Reports

- World Bank Group (2022). Pakistan Country Climate and Development Report (CCDR). Lead author and coordinator for climate modeling in Chapters 2 and 5.
- Naqvi, A., Onaran, O., and Dunz, N. (2022). Analyzing disaster recovery policies for low-income countries in a 3-Gap framework. Working paper, International Institute for Applied Systems Analysis (IIASA), Austria.
- 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.
- Zwickl, K., Milkin, X., Naqvi, A. (2022). Sociodemographic disparities in ambient particulate matter exposure in Austria. Under Review.
- Dalstein, F., Naqvi, A. (2022). 21st Century Water Withdrawal Decoupling: A Pathway to a more Water-wise World? Water Resource and Economics.
- Naqvi, A., Peer, S., Müller, J., Straub, M. (2022). The spatial-temporal distribution of exposure to traffic-related PM emissions and the role of Shared, Electric Vehicles (SEVs) in Vienna. *Draft in preparation for submission. WU Vienna*.
- Peer, S., **Naqvi, A.**, Müller, J., Straub, M. (2022). Accessibility, socioeconomic and climate impacts of zone-based shared, electric, autonomous vehicles (SAEVs): simulating the case of Vienna. *Draft in preparation for submission. WU Vienna*.
- Cheema, A., **Naqvi, A.**, Naseer, F., Siddiqui, B. (2022). Village Oligarchies and Peasant Republics: The Long-run Effects of Colonial Institutions in Punjab. *Draft in preparation for submission. Lahore University of Management Sciences*.
- Naqvi, A., Monasterolo, I. (2021). Natural disasters, cascading losses, and economic complexity: A multi-layer behavioral network approach. *Nature Scientific Reports*.
- Naqvi, A. (2021). Decoupling trends of emissions across EU regions and the role of environmental policies. Journal of Cleaner Production.
- Peisker, J., Naqvi, A. (2021). Distributional impact of flooding across European regions and sectors. Working paper, Vienna University of Economics and Business.
- 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. (2021). A systems approach to modelling disasters impacts, cascading losses and economic complexity. UN OCHA, Geneva.
- Naqvi, A. (2021). COVID-19 European Regional Tracker. Nature Scientific Data.
- 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*.
- 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., Monasterolo, I., de Schutter, L. (2018). Modeling the EU Bioeconomy Transition: A Multi-sector Input-Output Stock-Flow Consistent Approach. *Institute for Ecological Economics, WU, Vienna*.
- Brüning, L., **Naqvi, A.** (2018). The role of automation in an aging EU society: Effects of demographic and technological change on pensions in a Stock-Flow Consistent Framework. *Institute for Ecological Economics, WU, Vienna*.
- 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. Routledge, UK.
- 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*.
- 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.

Projects

Programmatic Climate Economics Capacity Building Initiative to Advance a Whole-of-Economy Approach EFICE, THE WORLD BANK (USA) 2022 - 2023 Robust supply chains for agricultural goods and food in Austria (ROBVEK) FEDERAL MINISTRY OF AGRICULTURE, REGIONS AND TOURISM (BML, AUSTRIA) 2022 - 2023 Pakistan's Climate Change Development Report (CCDR) THE WORLD BANK (PAKISTAN, USA) 2022 - 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, USA) 2012 - 2016

Thesis supervision

2022	The Effects of Unilateral Climate Policies: The effects of Carbon Leakages, on competitiveness, and Pollution Havens	WU Vienna
2020	21st Century Water Withdrawal Decoupling	WU Vienna
2019	The Macroeconomic Impacts of Floods across European Regions and Sectors	WU Vienna
	A stock-flow consistent model assessment of the opportunities and risks of development bank's efforts of closing the climate-finance gap	WU Vienna
2018	Automation in an aging EU society: Effects of demographic- and technological change on pensions in a Stock-Flow Consistent Framework	WU Vienna
	Investigating climate adaptation in semi-arid regions as complex adaptive social-ecological systems:	Chinese Academy of
	An integrated modeling approach	Sciences, China
	Skills resilient to impending automation: The future of work	Pardee RAND, USA
		Wageningen
2017	Vulnerability is dynamic: Approaching the emerging challenges of coastal tourism	University,
		Netherlands
	Drivers and barriers: what institutional factors affect the operationalization of the Circular Economy? A conceptual framework and its application: a case study of the Netherlands	WU Vienna
2016	Environmental Policy and Technical Change in a North-South Stock-Flow Consistent Model	WU Vienna

Miscellaneous

Data science projects

- The Climate Economics Literature Tracker
- Author of various Stata packages: schemepack, clipgeo, delaunay, streamplot, joyplot, bimap, marimekko, arcplot, circlepack, treemap, spider, circlebar, alluvial, sankey
- Co-authored Stata package drdid based on Sant'Anna and Zhao (2020).
- The Stata Guide on Medium
- The Stata Gallery on Medium
- COVID-19 European Regional Tracker
- The Difference-in-Difference Guide
- COVID-19: Visualizing regional socioeconomic indicators for Europe

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, Austrian National Bank (ÖNB), Federal Ministry of Education and Research (BMBF, Germany)

Skills

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