Asjad Naqvi, Ph.D.

ASSISTANT PROFESSOR · INSTITUTE FOR ECOLOGICAL ECONOMICS, VIENNA UNIVERSITY OF ECONOMICS AND BUSINESS (WU)

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Education

Vienna University of Economics and Business	Vienna, Austria
Habilitation in Economics (VWL)	Oct. 2020
New School for Social Research	New York, USA
PH.D. IN ECONOMICS	Sep. 2007 - May. 2012
Lahore University of Management Sciences (LUMS)	Lahore, Pakistan
MSc. IN ECONOMICS	Sep. 2003 - Jun. 2004
University of London External Programme	Lahore, Pakistan
BSc. (Hons.) IN ECONOMICS AND MANAGEMENT	Sep. 1998 - Jun. 2001

Work Experience

Vienna University of Economics and Business (WU)

Assistant Professor

International Institute for Applied Systems Analysis (IIASA)

RESEARCH SCHOLAR

Vienna University of Economics and Business (WU)

Assistant Professor

Center for Economic Research Pakistan (CERP)

RESEARCH DIRECTOR

Lahore University of Management Sciences (LUMS)

RESEARCH ASSOCIATE

Publications

Peer-reviewed journals

- Naqvi, A., Monasterolo, I. (2021). Natural disasters, cascading losses, and economic complexity: A multi-layer behavioral network approach. *Nature Scientific Reports*. DOI: https://doi.org/10.1038/s41598-021-99343-4
- Naqvi, A. (2021). Decoupling trends of emissions across EU regions and the role of environmental policies. *Journal of Cleaner Production*. DOI: https://doi.org/10.1016/j.jclepro.2021.129130
- Dalstein, F., Naqvi, A. (2021). 21st Century Water Withdrawal Decoupling: A Pathway to a more Water-wise World? Under review, Water Resource and Economics.
- 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*. DOI: https://doi.org/10.1016/j.jfs.2021.100872.
- 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. DOI: https://doi.org/10.1007/s00291-020-00574-0.
- Naqvi, A. (2021). COVID-19 European Regional Tracker. Nature Scientific Data. DOI: https://doi.org/10.1038/s41597-021-00950-7.
- Mochizuki, J., Naqvi, A. (2019). Reflecting Disaster Risk in Development Indicators. Sustainability 11(4) 996. DOI: https://doi.org/10.3390/su11040996.
- 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 11(20), 5705.* DOI: https://doi.org/10.3390/su11205705.
- Naqvi, A., Stockhammer, E. (2018). Directed Technological Change in a Post-Keynesian Ecological Macromodel. *Ecological Economics 154 (164–188)*. DOI: https://doi.org/10.1016/j.ecolecon.2018.07.008.
- Bennett, D., Naqvi, A., Schmidt, W-P (2018). Learning, Hygiene, and Traditional Medicine. *The Economic Journal 128 (612)*. DOI: https://doi.org/10.1111/ecoj.12549.
- Naqvi, A. (2017). Geo-simulations as a policy toolkit for natural disasters. World Development 99, 395–418, DOI: https://doi.org/10.1016/j.worlddev.2017.05.015.
- Naqvi, A., Zwickl, K. (2017). Fifty Shades of Green: Revisiting Decoupling by Economic Sectors and Air Pollutant. *Ecological Economics 133, 111–126.* DOI: https://doi.org/10.1016/j.ecolecon.2016.09.017.
- Bennett, D., Naqvi, A., Schmidt W-P (2015). Constraints on Compliance and the Impact of Health Information in Rural Pakistan. *Health Economics 24(9), 1050–1064*. DOI: https://doi.org/10.1002/hec.3193.
- 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*, 9(2) 257–309. DOI: https://doi.org/10.1007/s11403-014-0137-1.

Nov. 2020 - present Laxenburg, Austria

Vienna, Austria

Jan. 2017 - present

Vienna, Austria Oct. 2013 - Nov. 2019

Lahore, Pakistan Sep. 2011 - Aug. 2013

Lahore, Pakistan Jul. 2004 - Jun. 2007

Working papers, book chapters, reports

- Naqvi, A., Onaran, O., and Dunz, N. (2022). Distributional impacts of disaster-risk financing in a strutural gap model: Application to Madagascar. *Draft under preparation.*
- Tanaka, H., Dunz, N., Yoshioka, N., Mochizuki, J., **Naqvi, A.** (2021). Building Back Better in Small Island Developing States in the Pacific: Initial insights from the BinD Model on disaster risk management policy options in Fiji. Draft in revision for an Asian Development Bank report.
- Naqvi, A., Peer, S., Müller, J., Straub, M. (2021). Accessibility, Environmental, and Socioeconomic Impacts of Zone-based Shared, Electric, Autonomous Vehicles (SAEVs): A case study of Vienna. Draft under preparation.
- Peisker, J., Naqvi, A. (2021). Distributional impact of flooding across European regions and sectors. Draft under preparation for submission.
- Cheema, A., Naqvi, A., Naseer, F., Siddiqui, B. (2021). Understanding the historic land institutions, inequality, and long-run development in a Regression Discontinuity Design. *Working paper*
- Dunz, N., Naqvi, A., Mochizuki, J. (2021). Developing an integrated catastrophe-macroeconomic modeling framework (the BinD model). Report under preparation with OPRI (Japan) and the World Bank.
- Müller, J., Straub, M., Naqvi, A., Richter, G., Peer, S., Rudloff, C. (2021) MATSim Model Vienna: Analyzing the Socioeconomic Impacts for Different Fleet Sizes and Pricing Schemes of Shared Autonomous Electric Vehicles. *Paper presented at the Transportation Research Board (TRB) 2021* Annual Meeting.
- Zwickl, K., Laurent, E., Naqvi, A. (2021). Air (Ine)Quality in the EU. Draft under preparation for submission.
- Zwickl, K., Milkin, X., Naqvi, A. (2021). Sociodemographic disparities in ambient particulate matter exposure in Austria. Draft under preparation for submission.
- Brüning, L., **Naqvi, A.** (2018). Automation in an aging EU society: Effects of demographic and technological change on pensions in a Stock-Flow Consistent Framework. *Draft.*
- Rehm, M., Naqvi, A., Hofmann, J. (2018). Class-less? Wealth, Income, and the Crisis 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. Routledge, 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. DOI: 10.1109/CIFEr.2014.6924103

Grants

Distributional effects of climate shocks - A macroeconomic perspective (DiOD)	
ÖNB Jubiläumsfond	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)	2019 - 2021
An empirical analysis of environmental inequality in the EU (EnvINEQEU) Austrian Science Fund (FWF)	2019 - 2022
Simulating the environmental and socio-economic effects of shared autonomous electric vehicles: the case of Vienna (SIMSAEV)	
Austrian Climate Research Program (ACRP)	2018 - 2021
Possibilities of consciously shaping mobility through the application of the principle of sufficiency in the Austrian context (MOBALANCE)	
FFG (Austria)	2018 - 2019
Sustainable Growth in the Presence of Complex Financial Markets ÖNB JUBILÄUMSFOND	2017 - 2019
Internal Displacement Risk (IDR)	
IDMC (Switzerland), USAID-OFDA (USA)	2017 - 2018
Pathways towards a Prosperous and Just EU Bioeconomy (BIOWAY)	
ÖNB Jubiläumsfond	2016 - 2018
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)	
Independent Evaluation Group (IEG), World Bank (USA)	2012 - 2016

Teaching____

Vienna University of Economics and Business (WU)

- Zukunftsfähiges Wirtschaften II (ZuWi II)
- Environment and Economy II: Causal inference methods
- Environmental Change and Policy II (3 semesters)
- Growth, Well-being, and Development (2 semesters)

• Bridging Course: Economics (2 semesters)

New School for Social Research

Сомритея LABS FOR VARIOUS PHD courses • Stata, Mathematica, Netlogo

Lahore University of Management Sciences (LUMS)

- LUMS MASTERS' IN ECONOMICS PROGRAM
- Development Economics
- Econometrics I

University College Lahore

- UNIVERSITY OF LONDON EXTERNAL PROGRAM
- Mathematics for Economists
 Advanced Mathematics for Economists
- Ouantitative Methods
- Statistics I and II

Supervision_

Master's theses, WU Vienna

- 2020 **21st Century Water Withdrawal Decoupling: A Pathway to a more Water-wise World?**
- 2019 The Macroeconomic Impacts of Floods across European Regions and Sectors
- 2018 Automation in an aging EU society: Effects of demographic- and technological change on pensions in a Stock-Flow Consistent Framework
- 2017 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
- 2016 Environmental Policy and Technical Change in a North-South Stock-Flow Consistent Model

PHD STUDENTS IN THE YSSP, IIASA

- 2019 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 Investigating climate adaptation in semi-arid regions as complex adaptive social-ecological systems: An integrated modeling approach (Chinese Academy of Sciences, China)
- Skills resilient to impending automation: The future of work (Pardee RAND Graduate school, USA)
 Vulnerability is dynamic: Approaching the emerging challenges of coastal tourism (Wageningen
- University, Netherlands)

Recent conferences

2021	Keynote Stata UK conference	London, England
	Modeling disasters impacts, sacrading lesses and economic complexity UN OCHA	Geneva,
	modeling disasters impacts, cascading losses and economic complexity on OCHA	Switzerland
2020	Environmental Inequality in Austria: Implications for COVID-19 COVID-19 Future Operations Platform	Vienna, Austria
2019	Coupled climate-ecology-economy modeling and model hierarchies Institut Henri Poincare	Paris, France
	Annual Conference of the Gesellschaft für Regional Forschung (GfR) European Regional Science	Matrei in Osttirol,
	Association (ERSA)	Austria
	20th Annual Austrian Climate Center meeting (Klimatag) Climate Change Center Austria (CCCA)	Vienna, Austria
2018	Annual Conference European Association Evolutionary Political Economy (EAEPE)	Nice, France
	Knowledge Systems for Sustainability Collaborative (KSS) Climate-KIC, European Comission	Trento, Italy
	Annual Conference of the Gesellschaft für Regional Forschung (GfR) European Regional Science Association (ERSA)	Innsbruck, Austria
	Uncovering the hidden cost of internal displacement Internal Displacement Monitoring Cell (IDMC)	Geneva, Switzerland
2017	Annual Conference European Association Evolutionary Political Economy (EAEPE)	Budapest, Hungary
	Instructor on Ecological Stock-flow Consistent (SFC) macromodels FMM Summer School	Berlin, Germany
	European Society for Ecological Economics (ESEE)	Budapest Hungary
	Annual Conference Gesellschaft für Regional Forschung (GfR) European Regional Science Association	Spital am Phyrrn,
	(ERSA)	Austria

Asjad Naqvi · CV

Vienna, Austria 2014 – 2022

New York, USA 2007 – 2010

Lahore, Pakistan 2005 – 2006

Lahore, Pakistan 2001 – 2004

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Miscellaneous

Reviewing activities

- Peer-reviewed journals: 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
- Research proposals: Österreichische Nationalbanks Jubiläumsfonds (ÖNB, Austria), Bundesministerium für Bildung und Forschung (BMBF, Germany)

Data and code (https://github.com/asjadnaqvi)

- Notes on Diff-in-diff literature: https://github.com/asjadnaqvi/DiD
- Co-authored Stata package "drdid" (ssc install drdid) based on Sant'Anna and Zhao (2020).
 Authored Stata package "schemepack" (ssc install schemepack) which provides a suite of ready-to-use-Stata schemes.
- The Stata Guide on Medium: https://medium.com/the-stata-guide
- COVID-19 European Regional Tracker: https://github.com/asjadnaqvi/COVID19-European-Regional-Tracker
- COVID-19 Austria Tracker: https://github.com/asjadnaqvi/Austria-COVID-19-Tracker
- COVID-19: Visualizing regional socioeconomic indicators for Europe: https://covid19.iiasa.ac.at/interactive/

Skills

- Languages: English (High proficiency), German (Certification: ÖIF B1, ÖSD B1, Courses: B2), Urdu (Native)
- Computer languages: Proficient in Stata, OGIS, ArcGIS, NetLogo, Mathematica, Markdown, LaTeX.
- Working knowledge of R, MATLAB, Python, Ruby, C++, JavaScript.

Awards

Best Poster Award at the ISEE Conference, Budapest, Hungary	Jun. 2017
Eduard-März Prize for the best paper at the AK Young Economists Conference (Austria)	Oct. 2014
IIASA Young Scientist Summer Program (YSSP) 2012	Summer 2012
Fulbright Scholarship	2007 - 2011
Winner of the 2006 Stockholm Challenge for RISEPAK	2006