

Barbora Šedová

Potsdam Institute for Climate Impact Research (PIK)
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Research interests

Development economics, climate change economics, applied econometrics, climate migration, climate and conflict

Appointments

Since 06/2020	PIK (Potsdam, DE) Lab Leader, FutureLab - Security, Ethnic Conflicts and Migration Lead of the Climate-Conflict Vulnerability Index (CCVI) project, funded by the German Federal Foreign Office (GFFO) Lead of the Weathering Risk initiative to improve understanding and action on climatic risks to peace and security, funded by the GFFO
Since 03/2021	University of Potsdam (Potsdam, DE) Senior Fellow, Center for Economic Policy Analysis
01/2016 - 05/2021	Mercator Research Institute on Global Commons and Climate Change (MCC) (Berlin, DE) Fellow/Researcher, Working Group on Economic Growth and Human Development (Researcher from 01/2016 - 05/2020, Fellow since 06/2020)
09 - 11/2019	Columbia University (New York, USA) Visiting Scholar, School of International and Public Affairs & Earth Institute Host: Prof. Wolfram Schlenker
02 - 03/2019	Yale University (New Haven, USA) Visiting Scholar, Yale School of the Environment Host: Prof. Robert Mendelsohn

Education

07/2016 - 07/2021	Ph.D. in Economics (<i>summa cum laude</i>), MCC & University of Potsdam (Potsdam, DE) Focus areas: Environmental and Development Economics, Applied Econometrics Thesis: <i>Heterogeneous Effects of Weather and Climate Change on Human Migration</i> Supervisors: Prof. Matthias Kalkuhl (MCC, University of Potsdam), Prof. Maik Heineemann (University of Potsdam) Other committee members: Prof. Katrin Millock (Paris School of Economics), Prof. Jasper Tjaden and Prof. Rainald Borck (University of Potsdam)
2011 - 2012	M.Sc. in Economics, Tilburg University (Tilburg, NL) Major in Resources, Development and Growth
2006 - 2011	B.Sc. in Business, Economics and Social Sciences, Vienna University of Economics and Business (Vienna, AT) Major in Economics and Socio-Economics Erasmus Exchange Program: Helsinki School of Economics (2010)

Grants

2022	Co-PI: Research funding from the GFFO, ca. €1,100,000 Co-PI: Research funding from the German Foundation for Peace Research, ca. €20,000
2021	Funding for PhD student Sarah Lohr from the Heinrich Boell Foundation, ca. €45,000
2020	Co-PI: UK DFID - The World Bank - UNHCR funding, ca. \$25,000 (10% success rate)

Awards & recognitions

2024	Selected for the leadership program of the Leibniz Association
2022	Prize for outstanding dissertation of the University of Potsdam
2021	Nominated for the Better World Award, University Society of Potsdam
2019	DAAD scholarship for research stay at Columbia University, ca. €8,000 Potsdam Graduate School travel scholarship, ca. €800
2014	Scholarship for the EAERE FEEM VIU summer school in Venice International Parliamentary Scholarship, ca. €6,000

Appointment Procedures

2022	Offer Assistant Professorship (tenure track) in Environmental Economics at Vrije Universiteit Amsterdam (declined)
2020	Offer Postdoctoral Researcher at the Center for Policy Research on Energy and Environment, Princeton University (declined)

Teaching & Supervision

Since 2020	PIK Potsdam Supervision and teaching of Postdocs, PhD, Master and Bachelor students within my lab
2017-2020	MCC Berlin Supervision of Master and Bachelor students
08/2022	AWI, GFZ, IASS, PIK, University of Potsdam (Potsdam, DE) Invited Guest Lecture for the Potsdam Summer School 2022, <i>Climate - Migration - Conflict</i>
06/2022	Technical University Dortmund (virtual) Invited Guest Lecture in research colloquium (FOKO) at the Department of Spatial Planning, <i>Climate Impacts on Human Security</i>
04/2022	Berlin Institute of Technology (Berlin, DE) Invited Guest Lectures in Master's course Economics of Climate Policy <i>Climate Impacts on Human Security</i>
11/2020	<i>Conflicts and Migration in a Changing Climate</i>
09/ 2016	Evangelische Studienwerk (virtual) Invited Guest Lecture for undergraduate & graduate students during the Summer Academy, <i>Heterogeneous Effects of Weather and Climate Change on Human Migration</i>
07/2020	National Bank of Slovakia (Bratislava, SK) Lecturer for Economics Summer School: <i>Econometric Methods for Impact Analysis</i>
2016-2019	University of Potsdam (Potsdam, DE) Teaching Assistant, Master's course <i>Economics of Climate Change</i>
2017	Teaching Assistant, Master's course <i>Research Papers in Environmental Economics</i>
09/ 2016	Cusanuswerk (Papenburg, DE) Instructor for Summer Academy, Undergraduate <i>Workshop on DICE</i> (in German)

(Co-)Supervision of Students

Since 2021	Sarah Lohr (PhD thesis, Berlin Institute of Technology)
Since 2020	Sidney Michelini (PhD thesis, Berlin Institute of Technology)
2023	Sandra Zimmermann (Master thesis, University of Bayreuth)
2021	Benjamin Girnus (Master thesis, Berlin Institute of Technology)
2018	Ramlah Abbas (Master thesis, University of Erlangen-Nuremberg)

Academic Presentations (selected)

- 2024 WZB Annual Conference on Migration and Diversity *Migration, Conflict, and Climate Change* Berlin Social Science Center (Berlin, DE) - forthcoming
Fragile Lives Conference *Evidence for Human Development, Food Security, and Peace in Poly-Crisis*, Humboldt University of Berlin (Berlin, DE) - forthcoming
German Development Economics Conference (GDEC), German Economic Association (Hanover, DE)
DFG Scientific Network Meeting *From Climate Conflicts to Environmental Peacebuilding* (Braunschweig, DE)
- 2022 The Economics of Migration - Junior Seminar (virtual)
International Security and Development Center seminar series (virtual)
Applied Young Economist Webinar (virtual)
- 2021 Annual Conference of the European Association of Environmental and Resource Economists (EAERE) (virtual)
Summer Conference of the Association of Environmental and Resource Economists (AERE) (virtual)
The Economics of Migration - Junior Seminar (virtual)
Congress of the German Economic Association *Climate Economics* (virtual)
PIK, invited speaker for Science & Pretzels seminar series (virtual)
- 2020 EAERE (virtual)
Invited speaker for the Global Open Series in Environmental Economics (virtual)
- 2019 EAERE (Manchester, UK)
EAERE FEEM VIU Summer School *Econometric Approaches for Environmental Policy Evaluation* (Venice, IT)
CESifo Summer Institute *Poverty, Inequality and their Associations with Disasters and Climate Change* (Venice, IT)
- 2018 Research seminar in Economics, University of Potsdam (Potsdam, DE)
World Congress of Environmental and Resource Economists (WCERE) (Gothenburg, SE)
- 2017 PhD Workshop in Empirical Economics, University of Potsdam (Potsdam, DE)
Impacts World, PIK (Potsdam, DE)
EAERE (Athens, GR)
GDEC, German Economic Association (Göttingen, DE)
- 2016 Research seminar in Economics, University of Potsdam (Potsdam, DE)

Invited Stakeholder Presentations, Panels and Workshops (selected)

- 2022 *Vienna Dialogue on Climate and Security*, Konrad Adenauer Stiftung (KAS) (Vienna, AT)
Climate Change and Security in the Mediterranean workshop, George C. Marshall European Center for Security Studies (virtual)
The World Banks' internal seminar on displacement (virtual)
Preview Conference, GFFO (Berlin, DE)
Climate Security Symposium, United States Africa Command (virtual)
How do Climate-related Changes Impact German and European Foreign and Security Policy? - panel at Königsbronn Discussions, KAS (Königsbronn, DE)
Climate and Security in the National Security Strategy workshop, German Council on Foreign Relations (Berlin, DE)
- 2021 *Practitioners Workshop on Conflict Early Warning/Early Action*, New York University (NYU) (virtual)
Climate and Security in the National Security Strategy workshop, German Council on Foreign Relations (Berlin, DE)
Vienna Dialogue on Climate and Security, KAS (Vienna, AT)
Expert Roundtable on Humanitarian Action and the Climate Crisis, United Nations Office for the Coordination of Humanitarian Affairs (virtual)
PeaceLab Event: Climate Change, Crisis Prevention and Peacebuilding, Global Public Policy Institute (virtual)
Crisis Prevention, Preparedness, Response and Resilience, European Commission's Group of Chief Scientific Advisors (virtual)
- 2020 *Anticipating and Addressing Ecological Threats: Security Policy Seminar*, The Geneva Centre for Security Policy and the Institute for Economics & Peace (virtual)

Co-Organization of Scientific and Policy Events

2022	Interdisciplinary expert workshop <i>CLON</i> with leading academics working on CLimate-migration-cONflict nexus at PIK (Potsdam, DE) Panel <i>Ways to Weather Compounding and Cascading Climate-security Risks</i> at the Berlin Climate and Security Conference (BCSC) (virtual)
2021	Panel <i>Making Sense of Climate Data for Peacebuilding</i> at the BCSC (virtual) COP26 side event <i>Climate Change and Conflict: Prevention, Foresight, Resilience and Adaptation of Populations at Risk</i> , (virtual)
2020	Workshop <i>Priorities for Climate and Conflict Research</i> , at the BCSC (virtual) Workshop <i>Methodological Frontier to Estimate Past and Future Climate Change Impacts on Conflict</i> at the BCSC, (virtual)
2018	Thematic session: <i>Heterogeneity in Climate Change Induced Migration</i> at the 6th WCERE with Matthias Kalkuhl and Katrin Millock (Gothenburg, SE)

Reviewer Activities

Nature Climate Change, Environmental and Resource Economics, Global Environmental Change, WIREs Climate Change, Climatic Change, Energy Policy, Economics of Disasters and Climate Change, Land Economics, Population and Environment, Global Studies Quarterly

Other Professional Service

2022 - 2023	Lead Author of the Special Report on environmental change, conflicts and human migration by the Mediterranean Experts on Climate and environmental Change
Since 2022	Member of the Advisory Board to the German Federal Government for Civilian Crisis Prevention and Peacebuilding
2021, 2022	Diversity Representative at PIK
Since 2021	Member of the AERE
Since 2017	Member of the EAERE

Languages

Programming: extensive knowledge of Stata, R, \LaTeX , QGIS, Office (Excel, Word, Power Point); some knowledge of Python, GAMS, JavaScript (Earth Engine)

Human: Slovak (native), German (fluent), English (fluent), Czech (fluent), French (intermediate)

Other Work Experience

Since 2014	Independent Researcher/Consultant (Berlin, DE): Work for various clients: The World Bank, Heinrich-Boell-Foundation, adelphi, GIZ
08/14– 02/2015	GIZ (Berlin, DE): Research Intern, Competence Center on Energy
03 - 07/2014	German Bundestag (Berlin, DE): International Parliamentary Scholarship Program
04/13– 03/2014	Ministry of Environment of the Slovak Republic (Bratislava, SK): Analyst, Department of Economic Tools and Analysis
01 – 06/2012	PricewaterhouseCoopers (Den Haag, NL): Research Intern, Innovation Research Center

Personal

1 kid born in 2023, married

List of Publications

Publications

Šedová, B., Binder, L., Michelini, S., Schellens, M. and Rüttinger, L., 2024. A Review of Climate Security Risk Assessment Tools. *Environment and Security*, 2(1), pp.175-210.

Hoffmann, R., Vinke, K. and **Šedová, B.** (2022). Strengthening the Science-Policy Interface in the Climate Migration Field. *International Migration*, 61(5), pp.75-97.

Michelini, S., **Šedová, B.**, Schewe, J. and Frieler, K. (2022). Extreme Weather Events Do Not Improve Conflict Predictions in Africa - *Humanities and Social Sciences Communications*, 10(1), pp.1-10.

Martin, M., ... **Šedová, B.** ... (2022). Ten New Insights in Climate Science 2022. *Global Sustainability*, 5, E20.

Zander, K., Garnett, S., Sterly, H., Ayeb-Karlsson, S., **Šedová, B.**, Lotze-Campen, H., Richerzhagen, C., and Baggen, H. (2022). Topic Modelling Exposes Disciplinary Divergence in Research on the Nexus Between Human Mobility and the Environment, *Humanities and Social Sciences Communications*, 9(1), pp.1-9.

Hoffmann, R., **Šedová, B.** and Vinke, K. (2021). Improving the Evidence Base on Climate Migration: Methodological Insights from Two Meta-Analyses, *Global Environmental Change*, 71, p.102367.

Šedová, B. and Kalkuhl, M. (2020). Who Are the Climate Migrants and Where Do They Go? Evidence from Rural India. *World Development*, 129, p.104848.

Šedová, B., Kalkuhl, M. and Mendelsohn, R. (2019). Distributional Impacts of Weather and Climate in Rural India, *Economics of Disasters and Climate Change*, 4(1), pp.5-44.

Šedová, B. (2016). On Causes of Illegal Waste Dumping in Slovakia. *Journal of Environmental Planning and Management*, 59(7), pp.1277-1303.

Thesis

Šedová, B. (2021). Heterogeneous Effects of Weather and Climate Change on Human Migration. PhD diss., Universität Potsdam.

Papers Under Review

Beyer, R., **Šedová, B.**, Schewe, J. and Lotze-Campen, H., (2022). Global Trends Between Conflict- and Disaster-induced Displacement and International Migration - *revise & resubmit*.

Working Papers

Šedová, B., Thalheimer L., Lohr, S., Benveniste, H., Brzoska, M., Buhaug, H., Cottier, F., Crespo Cuaresma, J., Hoffmann, R., Ide, T., Koubi, V., Petrova, K., Scheffran, J., Schewe, J., Siders, A.R., Thornton, F., Upadhyay, H., van der Geest, K., Vinke, K., von Uexkull, N., Zena Walelign, S., Oppenheimer, M. (2024). Climate Drives Migration, Conflicts Rarely Follow.

Lohr, S. and **Šedová, B.** . (2024). Who Are the Climate Migrants and Where Do They Go? Evidence from the Global South.

Šedová, B., Čizmaziová, L. and Cook, A. (2021). A Meta-Analysis of Climate Migration Literature. *CEPA Discussion Paper No. 29*. Covered by **Deutsche Welle (DW)**.

Šedová, B. and Ludolph, L. (2021). Global Food Prices, Local Weather and Migration in Sub-Saharan Africa. *CEPA Discussion Paper No. 26*.

Šedová, B., Ludolph, L. and Talevi, M. (2021). Inequality and Conflict in the Aftermath of Internal Population Displacement Shocks: Evidence from Nigeria. *The World Bank Policy Research Working Papers*.

Reports

Nagarajan, C., Binder, L., Destrijcker, L., Michelini, S., Rüttinger, L., Sangare, B., **Šedová, B.**, Vivekananda, J. and Zaatour, R. (2022). Climate, Peace and security Assessment: Mali.

Binder, L., Gleixner, S., Gornott, C., Lange, S., **Šedová, B.**, and Tomalka, J.(2022). Climate Risk Profile for East Africa.

Binder, L., **Šedová, B.**, Rüttinger, L., Tomalka, J. and Gleixner, S. (2022). Climate Risk Profile Jordan.

Binder, L., **Šedová, B.**, Rüttinger, L., Tomalka, J. and Gleixner, S. (2022). Climate Risk Profile Iraq.

Binder, L., **Šedová, B.** and Rüttinger, L., (2022). Climate Risk Profile Somalia.

Rüttinger, L., König, C., **Šedová, B.** and Vivekananda, J. (2021). Weathering Risk - Methodology Paper.

Detges, A., Klingefeld, D., König, C., Pohl, B., Rüttinger, L., Schewe, J., **Šedová, B.** and Vivekananda, J. (2020). 10 Insights on Climate Impacts and Peace.