

sarah meier | curriculum vitae

Land, Environment, Economics and Policy Institute
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research interests

I am an applied environmental economist with a background in climate sciences. My current research focuses on the intersection of these two disciplines with a focus on natural hazards and biodiversity. I address relevant research questions by leveraging big data, satellite imagery and causal inference techniques.

current employment

Postdoctoral Research Fellow

Dragon Capital Research Programme on Biodiversity Economics
LEEP Institute, Economics Department, University of Exeter Business School

Exeter (UK)
Oct 2023 – present

education

University of Birmingham

PhD in Environmental Economics: "Essays on the Economics of Wildfires"
Examined by Dr. Sefi Roth and Prof. David Maddison (awarded with no corrections)

Birmingham (UK)
Sep 2020 – Jul 2023

Oeschger Centre for Climate Change Research

Master of Science in Climate Sciences w. Specification in Economics (6/6)

Bern (CH)
Feb 2019 – Jul 2020

University of Bern

Bachelor of Science in Economics (5.13/6)

Bern (CH)
Sep 2015 – Feb 2019

Bern University of the Arts

Master of Arts in Music, Classical Trumpet (5.65/6)

Bern (CH)
Sep 2011 – Jun 2013

publications

Meier, S., Elliott, R.J.R. & Strobl, E. (2023) The regional economic impact of wildfires: Evidence from Southern Europe. *Journal of Environmental Economics and Management*.

Meier, S., Strobl, E., Elliott, R.J.R., & Kettridge, N. (2023) Cross-country risk quantification of extreme wildfires in Mediterranean Europe. *Risk Analysis*.

Jones, M. W. et al., State of Wildfires 2023–2024. *Earth System Science Data*.

working papers

Meier, S., Strobl, E. & Elliott, R.J.R., The impact of wildfire smoke exposure on excess mortality and later-life socioeconomic outcomes: The Great Fire of 1910.

Meier, S., Balmford, B., Faccioli, M., & Groom, B., Biodiversity, public preferences and substitutability with an application to cost-based shadow pricing.

work in progress

- The impact of wildfires on local biodiversity in the United States (with Eric Strobl)
- Forest fragmentation and zoonotic diseases (with Neha Deopa and Kritika Saxena)
- Forest conservation policy, additionality, and socio-environmental implications (with Ben Balmford and Ville Inkinen)
- Accounting for biodiversity and carbon additionality risk in the Amazon in the presence of deforestation and regrowth (with Ben Balmford, Ben Groom, Ville Inkinen, Charles Palmer, Lorenzo Sileci, Diana Weinhold)

awards & fellowships

Horizon 2020 Marie Skłodowska-Curie Actions Fellow in ITN

University of Birmingham, School of Geography, Earth and Environmental Sciences

Jul 2020 - Sep 2023

2020 Oeschger Young Scientist's Prize

for achieving the second-highest GPA in the Master's program of the Graduate School of Climate Sciences at the University of Bern

2021

conferences & invited presentations

2024: NERC/ESRC Economics of Biodiversity Conference, MIT Climate Change Adaption in Response to Wildfires Workshop, AERE, European Urban Economics Association, LAGV Marseille, EAERE, Data-Intensive Research Conference (NDIRA), Occasional Workshop in Environmental and Resource Economics (UCSB)

2023: EAERE-ETH Winter School on Natural Resources and Development in Resource-rich Countries, Envecon23, Big Data and Economics Research Network: 2nd Workshop on Urban and Environmental Challenges, EAERE

2022: 15th RGS Doctoral Conference in Economics, 13th Columbia Interdisciplinary PhD Workshop in Sustainable Development, Cambridge Land Economy Early Career Researcher's Conference, EGU General Assembly, Fire & Climate Conference, LSE Shifting Landscapes

2021: 12th Columbia Interdisciplinary Workshop in Sustainable Development, 16th International Wildland Fire Safety Summit, 2nd Oxford meeting on Environmental Social Sciences: Challenges and Solutions for Sustainable Development

further details

Statistical Software: Python, R, STATA

Other Software & Tools: L^AT_EX, ArcGIS, Google Earth Engine, RMarkdown, Java (data scraping)

Reviewing: Journal of Environmental Economics and Management, Environmental and Resource Economics

Languages: German (native), English (fluent), French (fluent), Italian (basic), Spanish (basic)

references

Prof. Robert J.R. Elliott

Department of Economics
University of Birmingham

✉ r.j.elliott@bham.ac.uk

Prof. Eric Strobl

Department of Economics
University of Bern

✉ eric.strobl@unibe.ch

Prof. Ben Groom

Department of Economics
University of Exeter

✉ b.d.groom@exeter.ac.uk

Prof. Sefi Roth

Department of Geography and Environment
London School of Economics and Political Science

✉ s.j.roth@lse.ac.uk