

Roman Eric Sieler

romansieler.com

Research Interests: Environmental and development economics; environmental health; climate change; firm responses to environmental policy. My research lies at the intersection of environmental, development, and health economics. I use causal inference, machine learning, and remote sensing to study the economic and health consequences of environmental change and how firms respond to environmental policies. My work is interdisciplinary, drawing on insights from ecology and the environmental sciences, while using economic methods to identify causal effects and inform environmental policy.

Education

Ph.D. in Economics

University of Basel, Switzerland. Grade: Summa Cum Laude 2021–2025
Research stays: Harvard University (USA, 2025), University of California, Santa Barbara (USA, 2024), Pontificia Universidad Católica de Chile (Chile, 2022).

M.Sc. in Economic Development and Growth

Lund University, Sweden. Double degree. GPA: A–. 2019–2020
Thesis: *The Strange Case of Climate Policy and Economic Development: An Analysis of the Porter Hypothesis in China's ETS Pilots.* Grade: A

M.Sc. in Economic Development and Growth

Universidad Carlos III de Madrid, Spain. Double degree. GPA: 9.22/10 (Top 1%). 2018–2019
Thesis: *Do Coral Reefs Matter? Effects of Climate-Induced Coral Bleaching on the Biological Standard of Living in Indonesia.* Grade: Matrícula de Honor (Honors)

B.Sc. in International Economics and American Studies

University of Tübingen, Germany. GPA: 1.4 (Excellent). 2014–2018
Exchange: Tufts University, USA (2016–2017). Thesis: *Persistence and Causes of Inequality in South, Southeast and Central Asia.* Grade: 1.0 (Excellent)

Working Papers and Research Outputs

Sieler, Roman Eric (2025). **The Impact of Coral Bleaching on Fisheries, Nutrition, and Stunting in East Africa.** Job Market Paper. *Under editorial consideration at Nature Climate Change.*

Sieler, Roman Eric; Hintermann, Beat; Di Maria, Corrado (2025). **Bad for Business? The Impact of Air Quality on Firm Outcomes in Germany.**

Sieler, Roman Eric; André, Francisco J.; Di Maria, Corrado; Hintermann, Beat (2025). **Product Switching under the European Emission Trading Scheme.**

Sieler, Roman Eric (2026). **A global satellite-derived coral bleaching dataset (2016–2025)**

Work in Progress

The Impact of Coral Bleaching on Micronutrients in East African Fisheries

with Bryan Galligan (Harvard University)

Global Analysis of Coral Bleaching Impacts on Fisheries

with Jessica Zamborain–Mason (KAUST), Christina Dräger (Nagoya University)

Coral Bleaching and Human–Wildlife Conflict: Crocodile Attacks

with Francesco Cenerini (National Taiwan University)

What Drives Civil Society Influence in Global Climate Negotiations?

with Paula Mónica Castro Pareja (ZHAW Zürich)

Professional Experience

Postdoctoral Researcher, University of Basel, Switzerland 2026–present

Research Assistant and Lecturer, University of Basel, Switzerland 2021–2025

- Conducted applied economic research on climate policy, pollution and climate change impacts.
- Presented research at leading conferences and seminars across Europe and the US, including at Harvard, Georgetown, and Columbia University.
- Developed a research project that secured 100.425 CHF from the Swiss National Science Foundation.
- Delivered lectures on climate policy and public economics; supervised bachelor's and master's theses; supported seminars on academic writing and research methods as a teaching assistant.

Consultant, BSS Economic Consultants AG, Basel, Switzerland 2026–present

Research Assistant, BSS Economic Consultants AG, Basel, Switzerland 2023–2026

Project coordinator for the multi-stakeholder industrial defossilization initiative Green Carbon Valley. Research and evaluation of development cooperation, government programs, and proposed sustainability laws on behalf of the Swiss government; project and partner acquisition.

Analyst, adelphi research gGmbH, Berlin, Germany 2020–2023

Coordination of the German–Korean and German–Japanese Energy Partnerships; organization of high-level dialogues and conferences; drafting studies and government briefing material on energy and climate policy; consulting for the Federal Government and partners, such as the Japanese Embassy, the Korea Energy Economics Institute and GIZ.

Project Assistant, German Society for International Cooperation, Beijing, China 2018

Intern supporting the project "Emission Trading Schemes in China" on behalf of the German Federal Government. Research and policy analysis on ETS design and implementation; preparation of events, high-level meetings, and training programs for Chinese officials.

Intern, Federal Ministry for Economic Cooperation and Development, Bonn, Germany 2017

Research on development, human rights, and renewable energy for the division for Central Asia, China, Laos and Cambodia; analysis of project proposals.

Volunteer, Weltwärts Program of the Federal Ministry for Economic Cooperation and Development, Santiago del Estero, Argentina and Porto Alegre, Brazil 2013–2014

Work in social, political and educational projects including English teaching, food bank work, and work with the Landless Workers Movement in Southern Brazil.

Research Funding, Fellowships & Awards

Swiss National Science Foundation Grant "*Coral Bleaching in East Africa: Consequences and Adaptations*", 100'425 CHF (Proposal developed by me; Beat Hintermann served as formal applicant, 2025)

Supporters' Association of the Faculty of Economics and Business Grant "*Coral Bleaching, Micronutrients, and Economic Development*" (Co-developed with Beat Hintermann, 2025)

Nikolaus and Bertha Burckhardt–Bürgin Foundation Short-Term Travel Grant (2025)

Doc.Mobility@unibas Fellowship, University of Basel; one of six recipients selected university-wide (2024)

Heinrich-Böll-Foundation Scholarship, Germany; competitive scholarship supporting undergraduate and graduate studies (2016–2020)

Selected for "MEDEG Research Thesis Excellence Series," Universidad Carlos III (2019)

Room and Board Scholarship, Tufts University, USA; awarded through the University of Tübingen International Program (2016–2017)

Teaching

- International Political Economy of Energy and Climate Policy (Invited Lecturer, 2025)
- Fundamentals of Public Economics (Assistant and Lecturer, 2024-2026).
Teaching evaluation: Mean student ratings of 5.4–5.8/6.0 across course organization, clarity, responsiveness to questions, and engagement.
- Public and Environmental Economics Seminars (Bachelor's & Master's Theses Supervision, 2024-2026)
- Scientific Work II (Teaching Assistant, 2025)

Conference Presentations

2026

16th International Coral Reef Symposium, Auckland, New Zealand
World Congress of Environmental and Resource Economists, Lisbon, Portugal
German Development Economics Conference / 1st Conference of the EDEG, Kiel, Germany
Annual Congress of the Swiss Society of Economics and Statistics, St. Gallen, Switzerland
Monte Verità Conference on Sustainable Resource Use and Economic Dynamics, Ascona, Switzerland
14th Mannheim Conference on Energy and the Environment, Mannheim, Germany
Sixth Workshop on Environmental Economic Analyses Using AFiD, Mannheim, Germany

2025

30th Annual EAERE Conference, Bergen, Norway
13th Mannheim Conference on Energy and the Environment, Mannheim, Germany

2024

AERE Summer Conference, Washington DC, USA
Interdisciplinary Ph.D. Workshop in Sustainable Development at Columbia, New York, USA

2023

28th Annual EAERE Conference, Limassol, Cyprus
11th Mannheim Conference on Energy and the Environment, Mannheim, Germany

Seminar Talks and Research Visits

2025

Penn State Institute of Energy and the Environment Seminar, USA (invited)
Seminar of Christopher Golden, Harvard T.H. Chan School of Public Health, USA
Sustainable Future Research Lunch, University of Basel, Switzerland
Economics Lunch, University of Basel, Switzerland
U.S. Seminar in Business, Law and Economic Policy, New York University, USA
Seminar of Arik Levinson, Georgetown University, USA

2024

Seminar of Christopher Golden, Harvard T.H. Chan School of Public Health (invited, online)
Gaines Lab, Marine Science Institute, University of California, Santa Barbara, USA
Scripps Institution of Oceanography, University of California, San Diego, USA
Environmental Markets Lab Research Roundtable, UC Santa Barbara, USA
Carleton Lab Meeting, University of California, Santa Barbara, USA

2022

Ciclo de Seminarios Académicos, Universidad de Talca, Chile (invited)

Selected Policy & Public Speaking

- **Speaker, Opening Plenary, UNFCCC COP27**, representing the Youth Constituency (YOUNGO), Sharm El Sheikh, Egypt, 2022.
- **Speaker, “Lessons from the World Climate Conference COP27”**, Milieu Law & Policy Consulting, Brussels, 2022.
- **Speaker, “Can Nuclear Play a Role in Achieving SDG7?”**, International Atomic Energy Agency (IAEA), COP27, Sharm El Sheikh, Egypt, 2022.
- **Speaker, “An ‘Energy COP’ for Net Zero”**, Youth Climate Forum COP28, 2023.
- **Speaker, Z2X23 – Ideas Festival of ZEIT ONLINE**, “Do We Make a Difference? Four Years at UN Climate Conferences – Ask Me Anything!”, Berlin, 2023.

Memberships

- European Economic Association
- European Association of Environmental and Resource Economists
- Association of Environmental and Resource Economists
- Swiss Society of Economics and Statistics
- The Explorers Club
- International Coral Reef Society

Selected Policy Reports and Other Publications

Meyer, Niclas; Sieler, Roman Eric; Wehrli, Damian; Legler, Victor; Kappeler, Fabiana; Aepli, Manuel (2026). *Regulierungsfolgenabschätzung zum indirekten Gegenvorschlag zur Volksinitiative “Für verantwortungsvolle Unternehmen – zum Schutz von Mensch und Umwelt”*. Basel: BSS.

Meyer, Niclas; Kappeler, Fabiana; Sieler, Roman Eric; Gailhofer, Peter (2024). *Auswirkungen der CS-DDD auf die Unternehmen, den Standort und den Wettbewerb in der Schweiz*. Basel: BSS.

Münch, Marie; Seitz, Hannes; Dörr, Henri; Sieler, Roman Eric; Teichmann, Franziska; Narita, Jana (2024). *Status of Hydrogen and Potential for Cooperation: Australia, Germany, Japan, and Korea*. Berlin: adelphi.

Seitz, Hannes; Sieler, Roman Eric; Narita, Jana (2024). *Renewable Energy Potential in Korea and Germany*. Berlin: adelphi.

Sieler, Roman Eric; Dörr, Henri (2023). *Certification of Green and Low-Carbon Hydrogen*. Berlin: adelphi.

Sieler, Roman Eric; Cames, Lisa; Schuster, Bianca; Borghardt, Sören; La Trobe, Benjamin (2022). *Hydrogen Factsheet – Japan*. Berlin: adelphi.

Sieler, Roman Eric (2022). *Offshore Wind – Achieved Cost Reductions in Germany*. Berlin: adelphi.

Sieler, Roman Eric (2021). *Mit Wasserstoff Richtung Net Zero: Klima- und Energiepolitik in Japan, Südkorea und Australien* (With Hydrogen Towards Net Zero: Climate and Energy Policy in Japan, South Korea and Australia). Insight Asia-Pacific, German Asia-Pacific Business Association.

Narita, Jana; Cames, Lisa; Jensterle, Miha; Sieler, Roman Eric; Lühmann, Momo Paula (2020). *Energy Efficiency in Industry and Buildings in South Korea and Germany*. Berlin: adelphi.

Kerres, Pia; Sieler, Roman Eric; Narita, Jana; Eckardt, Jakob; Overbeck, Lucy (2020). *Germany’s Policy Practices for Improving Community Acceptance of Wind Farms*. Berlin: adelphi.

Voluntary Leadership & International Engagement

European Co-President for Political Representation, FIMCAP 2021–2023

Led EU policy and international climate advocacy; coordinated delegations to the United Nations climate conferences COP25–29; represented FIMCAP at the United Nations High-Level Political Forum on Sustainable Development (2024); enabled young people from around the world to engage in international climate diplomacy; co-facilitated bilateral meetings with EU Commissioners, Ministers, and Heads of State. Supported the successful acquisition of more than 200.000 EUR of grants from the EU Erasmus plus programme, the European Climate Foundation and the Swiss Lenten Fund.

Founder and Coordinator, Network of European Youth NGOs for Climate Action 2023–2024
The first structured coordination platform of European Youth NGOs in the UNFCCC context.

Contact Point, Volunteer, UNFCCC Youth Constituency (YOUNGO) 2023–ongoing
Coordinated the work of the Mitigation Working Group (2023–2024); Member of Oceans and Technology Mechanism groups; represented YOUNGO at the 20th Meeting of the UNFCCC Technology Executive Committee.

Member of the External Expert Advisory Board, Project GRETA 2021–2023
Green Energy Transition Actions (Horizon 2020 Nr. LC-SC3-2020, LUT University, Finland)

Board Member, Generation Climate Europe 2020–2023
Coordinator, Climate Justice Working Group; contributed to incorporation under Belgian law.

Other past engagements include: Swiss Youth for Climate (Regional Lead, Basel), Climate Action Network International (Ambition Working Group), Global Marshall Plan Tübingen (President), Association of Foreign Affairs in Lund (Host Podcast "Talking Greenish"), PUSH Sweden, and Tufts Model UN.

Languages and Skills

Languages: German (native), English (fluent, TOEFL 119/120), Spanish (very good), French(basic, currently learning).

Statistical Software: Stata, R, Python, SAS, EViews.

Updated: September, 2026