

Roman Eric Sieler

romansieler.com

Research Interests: Applied environmental economics, development and health.

My research combines causal inference with machine learning and remote sensing to study how air pollution and climate change affect production and health, and how firms respond to environmental policy. I also have a background in policy consulting and NGO work.

Education

Ph.D. in Environmental 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. Economic Development and Growth

Lund University, Sweden. Double degree. GPA: A– (Very Good). 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 (Excellent)

M.Sc. 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. 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 (Excellent)

Working Papers

Sieler, Roman Eric (2025). **The Impact of Coral Bleaching on Fisheries, Nutrition, and Stunting in East Africa.** Job Market Paper.

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

Ongoing work, with Bryan Galligan (Harvard University)

Human–Wildlife Conflict: Crocodile Attacks

Ongoing work, with Francesco Cenerini (National Taiwan University)

What Drives Civil Society Influence in Global Climate Negotiations?

Ongoing work, with Paula Mónica Castro Pareja (ZHAW Zürich)

Global Analysis of Coral Bleaching Impacts on Fisheries

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

Professional Experience

Postdoctoral Researcher, University of Basel, Switzerland 2026–present

Research Assistant and Lecturer, University of Basel, Switzerland 2022–2025

Applied economic research on European climate policy as well as 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 more than 100.000 CHF in funding 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 up to the chancellor level; 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 work as an English teacher, with food banks, and with the Landless Workers Movement in Southern Brazil.

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.

Grants and Awards

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

Swiss National Science Foundation Grant "Coral Bleaching in East Africa: Consequences and Adaptations" (Co-developed with Beat Hintermann, 2025)

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

Scholarship, *doc.mobility@unibas* (2024)

Scholarship, Heinrich-Böll-Foundation, Berlin (2016–2020)

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

Scholarship, Tufts University (2016–2017)

Teaching

- International Political Economy of Energy and Climate Policy (Invited Lecturer)
- Fundamentals of Public Economics (Assistant and Lecturer)
- Public and Environmental Economics Seminars (Bachelor's & Master's Theses Supervision)
- Scientific Work II (Teaching Assistant)

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)

Memberships

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

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 CSDDD 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.

Hirschberger, Bernd; Nicandrou, Alexandra; Sieler, Roman Eric et al. (2020). *Young Voices on Climate Justice – The European Youth and Climate Justice Report 2020*. Generation Climate Europe.

Sieler, Roman Eric (2019). "Do Coral Reefs Matter? An Analysis of the Effects of Climate-Induced Coral Bleaching on the Biological Standard of Living in Indonesia." MEDEG Research Thesis Excellence Student Paper Series, Lund University.

Kamenik, Anna Maria; Sieler, Roman Eric; Welke, Nina (2016). "Jugendverbände als partizipatorisches Lernfeld" (The Role of Youth Organizations as Spaces for Participatory Learning). *Der Bürger im Staat*, Issue 4-2016, Landeszentrale für politische Bildung Baden-Württemberg.

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; Speaker on behalf of the youth at the opening of COP27.

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