Enar Kornelius Leferink

enar.is

EDUCATION

University of Cambridge **Cambridge, UK**
PhD in Engineering
2025 – Present

- Fully funded by King's College International Scholarship (2025-2028)
- ***Focus:*** Establishing when circular strategies are viable and sustainable—and when alternative approaches yield better outcomes—using machine learning on sustainability literature, techno-economic modelling of circular supply chains, and game-theoretic analysis of collaboration and competition.
- ***Awards:*** International Society for Industrial Ecology Top Scholarship; International Society for Industrial Ecology Top Presentation Award; Waste Management Research Fellowship, Air & Waste Management Association

Yale School of the Environment **New Haven, CT, USA**
Master of Environmental Science (with highest honors for thesis)
2025

- ***Master's Thesis***: Investing in an Uncertain Future: Variable Byproducts in Eco-Industrial Clusters
- ***Focus:*** Industrial Ecology, Industrial Symbiosis, Business and Environment, Sustainable Industry, and Energy
- ***Relevant Coursework:*** Multivariate Statistics; Natural Science Research Methods; Life-Cycle Assessment (LCA); Supply Chain Management; Network Algorithms and Stochastic Optimization; Energy Systems Analysis
- ***Awards:*** Merit Research Scholarship; Dean's Scholarship; Leifur Eiríksson Fellowship; National Science Foundation Grant; American-Scandinavian Fellow; Laura Bassi Editorial Scholarship; Rosemary Ripley Family Fund Internship in Business and Environment Award; Leonard G. Carpenter Fund's Research Fellowship; Yale School of the Environment Master's Student Conference Funding Award; Leitner Conference Award; Kurihara Fellowship; Yale Center for Industrial Ecology Conference Award

University of Chicago **Chicago, IL, USA**
B.A. in Economics; Minor in Environmental Studies
2023

- Empower Scholarship, 2019-2023; Dean's List, 2021-2022

University of Iceland **Reykjavík, Iceland**
Bachelor's studies in Industrial Engineering
2018-2019

- Achievement and Incentive Fund of The University of Iceland Scholarship; The Educational Award

RESEARCH EXPERIENCE

University of Iceland's Faculty of Civil and Environmental Engineering **Reykjavík, Iceland**
Researcher May 2024 – Present

- Lead statistical analysis and theoretical modelling for two journal articles on wellbeing and consumption-based carbon footprints, using novel functional units and large-scale Nordic survey data.

Iceland Ocean Cluster, University of Iceland, and Yale University **Remote**
Lead Researcher August 2023 – Present

- Investigate entrepreneurship and industrial symbiosis in the Iceland Ocean Cluster, which aims to utilize 100% of cod as product inputs.
- Analyze 26 stakeholder interviews using thematic and cluster analysis to identify strengths, weaknesses, opportunities, and threats in Icelandic industrial symbiosis development.

GreenLab & Yale School of the Environment **Skive, Denmark & New Haven, CT, USA**
Lead Researcher January 2024 – October 2025
- Led research project on variability in eco-industrial clusters with GreenLab and Yale; developed a theoretical framework for sustainable stochastic local supply chains.

Center for Industrial Ecology at Yale **New Haven, CT, USA**
Researcher September 2023 – December 2023
- Co-wrote and led meetings for a chapter in the *Oxford Handbook on Greening of Economic Development* with Prof. Marian Chertow, linking industrial symbiosis with sustainable development and circular economy literature.

Yale Environment Review **New Haven, CT, USA**
Writer September 2023 – December 2023
- Authored a public-facing article on the relationship between individual carbon-reducing choices and systemic economic change, and reviewed submissions as part of the editorial team.

University of Iceland's Faculty of Civil and Environmental Engineering **Reykjavík, Iceland**
Researcher June – October 2022, May 2023
- First-authored a journal article; developed the methodology, wrote the manuscript, and introduced a novel indicator under the supervision of professors at the Universities of Iceland and Helsinki.

University of Chicago Booth School of Business **Chicago, IL, USA**
Research Assistant April – June, October 2022
- Synthesized current literature and co-wrote literature review for article on under- and over-reaction.

Oeconomica, University of Chicago's Undergraduate Economics Research Society **Chicago, IL, USA**
Researcher September 2021 – June 2022
- Analysed literature and helped construct a research schedule into peer effects of dorm assignments on extracurricular and social activities.
- Conducted preliminary research on the effects of community currency through a case study of UChicago's Maroon Dollar Program.

Aalto University and Univ. of Iceland's School of Engineering and Natural Sciences **Reykjavík, Iceland**
Researcher June – September 2021
- Conducted background research and data analysis to support country-specific surveys on climate behaviour, attitudes, and culture.
- Created respondent choice matrices, translated surveys, wrote scripts to calculate emissions coefficients, programmed survey paths, and prepared survey website analyses.

University of Iceland's Institute for Sustainability Studies **Reykjavík, Iceland**
Researcher June – September 2020
- Led a case study of industrial symbiosis and circular economy in the Icelandic geothermal industry, acquired and analysed data, identified material and energy flows, and analysed economic, environmental, and social effects.

- Co-developed a map of geothermal flows in Iceland, assessing scalability, drivers and barriers, policy context, and economic, environmental, and social conditions.
- Co-wrote technical reports, analysed data and results, and monitored the conduciveness for further research.

PUBLICATIONS

Leferink, E.K., & Chertow, M.R. (2025). *From Variance to Value: Stabilizing Circular Exchanges in Industrial Symbiosis Networks.* **Journal of Industrial Ecology.**

Leferink, E.K., Heinonen, J.T., Olson, S., et al. (2025). *Are larger carbon footprints linked to higher life satisfaction? A study of the Nordic countries.* **Journal of Cleaner Production.**

Leferink, E.K. (2024). *You're Concerned About Climate Change: Do Your Choices Make an Impact?* **Yale Environment Review.**

Leferink, E.K., et al. (2023). *Climate Concern Elasticity of Carbon Footprint.* **Environmental Research Communications**, 5, 075003.

Ba, C., Bohren, J.A., & Imas, A. (2022). *Over- and underreaction to information*. SSRN. (Research assistant contribution.)

Leferink, E.K., et al. (in preparation). *Entrepreneurship-Driven Industrial Symbiosis in Iceland: A SWOT Analysis Through Stakeholder Perspectives.* (Working paper; expected submission winter 2026.)

Olson, S., Leferink, E.K., et al. (in preparation). *Who's Happy and Sustainable? A Quadrant Analysis.* (Working paper; expected submission winter 2026.)

CONFERENCE PRESENTATIONS

International Society of Industrial Ecology Conference. NUS, Singapore, 2025.
- "Supply Variability of Byproducts" [Invited oral contribution within keynote presentation]
- "Dynamic Waste Streams in Eco-Industrial Clusters" [Poster presentation] {**1st Prize Best Poster Presentation**}

Yale School of the Environment Research Day. Yale University, New Haven, USA, 2025.
- "Investing in an Uncertain Future: Variable Byproducts in Eco-Industrial Clusters" [Oral presentation]

Confluence Research Series. Yale University, New Haven, USA, 2025.
- "Investing in an Uncertain Future: Variable Byproducts in Eco-Industrial Clusters" [Oral presentation]

The Icelandic Academic Book Club. Reykjavík, Iceland, 2024.
- "Carbon Footprint Elasticity of Climate Concern" [Oral presentation]

Industrial Ecology Gordon Research Conference. Les Diablerets, Switzerland, 2024.
- "Restoring balance in material systems: By-product Unreliability in Eco-Industrial Clusters." [Oral presentation]
- "GreenLab Skive and the Variability of Industrial Symbiosis." (Industrial Symbiosis Day meeting) [Oral presentation]
- "When? Timing of By-products in Eco-Industrial Clusters." [Poster presentation]

TEACHING EXPERIENCE

University of Cambridge — **Cambridge, UK**
Demonstrator in Sustainable Engineering (2CX) — January 2026 – March 2026

Yale University — **New Haven, CT, USA**
Teaching Fellow for LCA [Lifecycle Analysis] (ENV838) — January 2025 – May 2025
Teaching Fellow for Industrial Ecology (ENV884) — August 2024 – December 2024

University of Chicago — **Chicago, IL, USA**

Economics Tutor October 2022 – June 2023

LEADERSHIP & ACTIVITIES

Icelandic Youth Environmentalist Association (IYEA) **Remote**

Co-lead for Circularity July 2025 – Present

- Lead commentary on circularity-related legislation on behalf of IYEA; organize events and meetings with environmental organizations; engage with parliamentary and government stakeholders; edit IYEA press articles.

Board member for the Circularity Section September 2024 – June 2025

- Provided commentary on environmental legislation, engaged with members of parliament on sustainable policy, wrote public-facing articles on circular economy, and coordinated events.

Industrial Ecology and Green Chemistry Learning Community **New Haven, CT, USA**

Co-Leader April 2024 – April 2025

- Planned and delivered academic and career-development events, including guest speakers, workshops, networking events, and excursions, while serving as liaison between students and faculty.

Board of Sustainability Ambassadors at the University of Chicago **Chicago, IL, USA**

Sustainability Ambassador September 2019 – June 2021

- Managed a student-led energy audit of Chicago Public Schools and developed a report for use by key stakeholders for environmental and economic savings and helped develop waste solutions at UChicago.

Woodsmoke Awareness Project **Remote**

Board Member September 2019 – June 2021

- Oversee all communications, distribute flyers, and synthesize literature on woodsmoke for an awareness project.
- Circulate information to scientists and policymakers in Iceland, regularly distribute flyers, and create a website.

National Youth Council of Iceland **Reykjavík, Iceland**

Democracy and Human Rights Officer as Member of the Board February – August 2019

- Organized events, campaigns, and meetings; supported youth organizations in their work and campaigns.
- Campaigned for reform in governmental regulations, bureaucracy, and laws on gender equality and mental health.
- Represented Iceland at the Council of Europe; participated in and led working groups and workshops on access to social rights for young people from disadvantaged neighbourhoods.

SKILLS & INTERESTS

Skills

- **Programming**: Python, R, Java, and C#; working knowledge of Stata, MATLAB, Dynare, and Octave.
- **Software:** OpenLCA, AutoCAD, LateX, Excel
- **Content management and web tools:** Proficient in WordPress. Experience with Google Analytics, HotJar, page and marketing management on Facebook and Instagram.

Languages

- Fluent in Icelandic, Dutch, and English. Reading and basic conversational knowledge in German and Danish.

Interests

- Music and improvisation (choir and piano); contemporary art; exploration and travel; nature and hiking.