

Enar Kornelius Leferink

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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.

2026-07-19

Leferink

- 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

Demonstrator in Sustainable Engineering (2CX)

Cambridge, UK

January 2026 – March 2026

Yale University

Teaching Fellow for LCA [Lifecycle Analysis] (ENV838)

Teaching Fellow for Industrial Ecology (ENV884)

New Haven, CT, USA

January 2025 – May 2025

August 2024 – December 2024

University of Chicago

Chicago, IL, USA

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.