

Daniel Wilkinson

Hamburg, Germany

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Languages: English (native), German (C1), French (B2)

Profile

Environmental Engineer and Data Analyst specializing in Lifecycle Assessment (LCA) and sustainable product development. Experienced in developing and automating LCA models and generating data-driven insights for innovative product strategies. Proven ability to refine methodologies for evaluating product carbon footprints, with a strong focus on environmental impact analysis.

Core Competencies

- **Lifecycle Assessment:** LCA methodologies, CO₂ footprint analysis, product carbon footprint evaluation.
- **Data Analysis & Programming:** R, Python, SQL.
- **Data Visualization & Reporting:** Tableau, Excel, R Shiny, Streamlit, L^AT_EX.
- **Sustainability Strategy:** ESG reporting, KPI development, sustainable product innovation.

Selected Projects & Tool Development

- **Ecodesign Dashboard:** Developed a Python-based dashboard (Streamlit) for rapid assessment of climate impacts in direct air capture systems.
- **Sensitivity Analysis Tool:** Created a Python GUI application for intuitive sensitivity analyses with immediate visualization.
- **R Package for LCA Data:** Currently developing an R package to automate the extraction, cleaning, and analysis of LCA data to support product innovation.

Professional Experience

Sustainability Data Analyst (LCA Specialist)

Aug 2023 – Present

DACMA GmbH, Hamburg

- Conduct lifecycle assessments for direct air capture projects using Umberto, OpenLCA, and ecoinvent.
- Develop parameterized LCA models for flexible scenario analysis.
- Support cross-functional teams by analyzing ESG data with SQL and Python.

Research Associate Industrial Ecology

Jul 2022 – Jul 2023

Karlsruhe Institute of Technology (KIT)

- Performed an LCA on a novel recycling process for building thermal insulation.
- Modeled and analyzed projected waste flows and evaluated sustainability potentials in product development.

Research Associate / Master Thesis Student

May 2021 – Dec 2022

Fraunhofer Institute for Solar Energy Systems (ISE), Freiburg

- Conducted LCAs for carbon capture and renewable energy technologies.
- Developed data-driven sustainability strategies based on rigorous analysis.

Australian Lawyer

2013 – 2016

Various Law Firms (Australia, United Kingdom)

- Managed complex regulatory frameworks and structured case documentation.
- Developed systematic and precise problem-solving approaches.

Education

Master of Engineering in Environmental Engineering

2020 – 2021

University of Applied Sciences Weihenstephan-Triesdorf

Grade: 1.6

Thesis: Lifecycle Assessment of a Direct Air Capture Concept

Bachelor of Science in Environmental and Resources Management

2016 – 2019

Brandenburg University of Technology Cottbus-Senftenberg

Grade: 1.6

Thesis: Microplastics in Soils (Presented at EGU General Assembly 2020)

Certifications & Training

- Data Engineer Track (SQL, Python, Tableau) Codecademy (ongoing)
- Data Analysis Short Course Careerfoundry (2025)
- R Programming KIT (2022)

Additional Information

- Unrestricted work authorization in Germany.
- Member of Forum for Sustainability through Life Cycle Innovation (2025)
- References available upon request.