Daniel Wilkinson

Hamburg, Germany
daniel.wilkinson@gmx.net
+49 176 5678 1864
Languages: English (native), German (C1), French (B2)
GitHub: Daniel-Wilkinson1

Profile

Sustainability analyst and LCA specialist with 4 years of experience in life cycle assessment, data analysis, and cross-functional collaboration. Skilled in ISO-compliant LCA model creation, data integration, and stakeholder communication to support climate-relevant decision-making. Proficient in Simapro, OpenLCA, and Umberto, with hands-on experience using ecoinvent.

Core Competencies

- **Life Cycle Assessment (LCA)**: ISO 14040/14044, OpenLCA, Simapro, Umberto, ecoinvent
- **Programming & Automation**: Python (pandas, Streamlit), R (tidyverse, RMarkdown), SQL, Git/GitHub
- **Reporting & Visualization**: Tableau, R Shiny, Streamlit, MS Excel, Google Sheets
- **Sustainability Communication**: Cross-functional collaboration, stakeholder engagement, internal consulting
- **Environmental Data Analysis**: Emission factors, impact accounting, supply chain modeling

Self-Initiated Data Projects

- **Transport Emissions App:** Built a Streamlit dashboard to assess emissions based on transport mode and diet. (Live demo)
- **OpenLCA Data Automation:** Developing an R package to extract, clean, and visualise OpenLCA results for internal use.
- **Scenario Screening Tool:** Created a sensitivity analysis GUI to support fast LCA-based decision-making. (Tool)
- **Patent Tool:** Designed a Python-based search tool to enhance reproducibility in sustainability IP research.

Professional Experience

Sustainability Data Analyst (LCA Specialist)
DACMA GmbH, Hamburg *Aug. 2023 – Present*

- Developed LCA models for DAC (Direct Air Capture) at various scales using Umberto, OpenLCA, and ecoinvent.
- Migrated models to OpenLCA, streamlining internal workflows and saving €5,000 over three years.
- Created an R package to automate post-processing of LCA data from Umberto for impact accounting and internal reporting.
- Supported multi-departmental teams in cleaning and analyzing experimental and emissions data via SQL and Python.

Research Associate – Industrial Ecology
Karlsruhe Institute of Technology (KIT) *Jul. 2022 – Jul. 2023*

- Modeled global waste flows and developed impact estimation methodologies to inform sustainable decision-making.
- Supported LCA-based sustainability assessments and reporting strategies.

Research Associate / Master's Thesis Student
Fraunhofer ISE, Freiburg *May 2021 – Dec. 2022*

- Conducted LCAs of carbon capture and renewable energy technologies, including data validation and gap assessment.
- Advised on sustainability strategies aligned with evolving environmental regulations.

Education

M.Eng. Environmental Engineering
Weihenstephan-Triesdorf University of Applied Sciences *2020–2021*
Grade: 1.6 | Focus: Data Analysis, Monitoring, Environmental Forensics
Thesis: *"Life Cycle Assessment of a Direct Air Capture Concept"*
Projects: Silicate weathering in HVAC systems; geospatial species mapping and environmental correlation in R/QGIS.

B.Sc. Environmental and Resources Management
BTU Cottbus-Senftenberg *2016–2019*
Grade: 1.6 | Electives: Geospatial Analysis, Environmental Technologies
Thesis: *"Microplastics in Soils: A Case Study"*, presented at EGU General Assembly 2020.

Certifications & Training

- Data Engineer Track – Codecademy (SQL, Python, Tableau) – Ongoing
- CareerFoundry Data Analysis Course (2025) (GitHub Project)
- R Programming – KIT (2022)

Additional Information

- Unrestricted work authorization in Germany (permanent residency)
- Member, Forum for Sustainability through Life Cycle Innovation (2025)
- Thrive in interdisciplinary, impact-oriented environments focused on sustainability and innovation
- References available upon request