Malte Schäfer

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Personal Profile

Researcher and coach with a passion for sustainability and great work environments. Currently pursuing a PhD on assessing and reducing electricity-related emissions from a consumer perspective. Looking for a research or start-up role at the intersection of renewable energy, electricity markets & grids, Corporate Greenhouse Gas Accounting and/or product Life Cycle Assessment (LCA).

Education

APF Köln e.V.   *Köln, DE*

Certified Systemic Coach   *August 2021 - April 2023*

- Completed 500-hour training and earned certification from Systemische Gesellschaft (SG) as a Systemic Coach.
- Gained experience in conducting individual coaching sessions and facilitating team workshops.
- Developed expertise in Resource and Self-Management, Organizational Theory and Dynamics, Feedback, Motivation, Management Diagnostics, Leadership, and Conflict Management.

RWTH Aachen University   *Aachen, DE*

MSc in Automotive Engineering and Transport   *April 2013 - June 2015*

- Completed a study semester abroad at Universidad de Sevilla, Spain in 2013/14 (ERASMUS Scholarship).
- Served as a visiting student researcher at UC Berkeley, USA in 2014 (PROMOS Scholarship).
- Focused on courses such as Automotive Engineering, Internal Combustion Engines, Alternative Propulsion Systems, Lightweight Design, Fluid Power Fundamentals, Machine and Structural Dynamics, and Electrical Drives and Storage Systems.

RWTH Aachen University   *Aachen, DE*

BSc in Mechanical Engineering   *October 2008 - March 2013*

- Completed a six-month internship in product marketing and project management at Audi AG (Ingolstadt, DE).
- Wrote a bachelor thesis on laser-optical measurements of spray formation in combustion engines at Audi AG (Ingolstadt, DE).
- Studied courses including Mechanics, Material Science, Machine Design/CAD, Electrical Engineering, Thermodynamics, Fluid Mechanics, Heat and Mass Transfer, Mathematics, Chemistry, Physics, Computer Science, Applied Metrology, Simulation Technology, Automatic Control, Quality and Project Management, Automotive Engineering, Internal Combustion Engines, and Mechatronics.

Work Experience

Technische Universität Braunschweig   *Braunschweig, DE*

Research Assistant & PhD Student   *February 2018 - Present*

- Served as a teaching assistant for Life Cycle Assessment (LCA) and Holistic Life Cycle Management (LCM) courses.
- Supervised 20+ Bachelor and Master theses.
- Contributed to eight research projects on sustainable materials, remanufacturing, electric vehicles, energy flexibility, and corporate net-zero transition strategies.
- Authored research proposals for industry partners (3/3 successful) and public grants (2/7 successful).
- Actively participated in university councils as an Elected Senate Member and Speaker of the Council of Scientific Staff.
- Developed expertise in LCA, Carbon Accounting, Corporate Carbon Footprinting, Project Management, Scientific Writing, and Data Analysis with Python.
- Honed skills in Project Management, Scientific Writing, Time Management, Presentation, Public Speaking, and Teaching.

RWTH Aachen University   *Aachen, DE*

Research Assistant   *November 2016 - November 2017*

- Assisted in teaching an international, interdisciplinary course on collaborative product development (Germany/Korea).
- Supervised five Bachelor and Master theses.
- Participated in a project focused on bio-based, near net shape grown plastics alternatives.
- Advised Engineering Design students.
- Cultivated skills in Ecodesign and Project Management.
- Refined abilities in Project Management, Teamwork, Presentation, Public Speaking, and Teaching.

Audi AG   *Ingolstadt/Heilbronn, DE | Győr, HU*

R&D Engineer / Graduate Trainee   *March 2015 - August 2016*

- Participated in the Graduate Trainee Program (March 2015 - March 2016), transitioning to R&D Engineer in combustion engine development.
- Represented trainees' interests as an elected representative and gained experience in four different company departments, while receiving management mentoring.
- As an R&D Engineer, planned, conducted, and analyzed endurance and stress tests of engines on test rigs and in vehicles.
- Acquired proficiency in Data Analysis, Planning, and Conducting Mechanical Tests.
- Enhanced skills in Project Management and Managing Collaborative Supplier R&D Relationships.

Skills

Programming	Python (pandas, numpy, matplotlib, seaborn, plotly, Brightway2), R (ggplot2), LaTeX(Overleaf), Microsoft Office.
Data Analysis	Data Cleaning, Data Visualization, Statistical Analysis, Machine Learning.
Sustainability	Corporate Greenhouse Gas Accounting & Reporting, Life Cycle Assessment (LCA), Net-Zero Targeting, LCA with Brightway2.
Soft Skills	Problem Solving, Coaching, Project Management, Presenting/Public Speaking, (Data) Visualization, Writing, Supervising.

Achievements

2021	**1st place ("Golden Brain")**, Science Slam - Haus der Wissenschaft, Braunschweig	*Germany*
2015	**116/120**, Test of English as a Foreign Language (TOEFL)	*Germany*
2014	**2nd place**, Santa Cruz Harbor Cardboard Kayak Race	*USA*

Publications

JOURNAL ARTICLES

Ecodesign—A Review of Reviews
    Malte Schäfer, Manuel Löwer
Sustainability 13.1 (2021) p. 315. 2021. URL: `https://www.mdpi.com/2071-1050/13/1/315`

BOOK CHAPTERS

Integrating Environmental Assessment of Emerging Materials into the Material Selection Process
    Malte Schäfer, Felipe Cerdas, Christoph Herrmann
Progress in Life Cycle Assessment 2019, 2021, Cham. URL: `https://doi.org/10.1007/978-3-030-50519-6_7`

CONFERENCE PROCEEDINGS

Methodology for Assessing the Environmental Impact of Emerging Materials
    Malte Schäfer, Martina Gottschling, Felipe Cerdas, Christoph Herrmann
Zukunftstechnologien für den multifunktionalen Leichtbau, 2021, Berlin, Heidelberg. URL: `https://doi.org/10.1007/978-3-662-62924-6_8`

Languages

German	Native proficiency
English	Full professional proficiency
Spanish	Limited professional proficiency
French	Elementary proficiency

References available upon request.