

Ahmed Elhefnawy

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EDUCATION

- **ETH Zurich** Zurich.
Special Student, from University of Zurich. *Autumn Semester 2025*
 - Mathematics; Advances in Sustainability Economics (Doctorate seminar).
- **Technical University of Munich (TUM)** Munich.
M.Sc. in Sustainable Management and Technology. *October 2024 - Present*
 - **Major:** Biotechnology and Materials Science.
 - **Scholarship holder**, [TUM: Junge Akademie \(TUMJA\)](#).
 - **Scholarship holder**, [Deutschlandstipendium at TUM](#).
 - Exchange student at the University of Zurich (Fall 2025), Swiss-European Mobility Program (SEMP).
- **Massachusetts Institute of Technology (MIT)** Cambridge, MA, U.S.
MicroMasters in Data, Economics, and Design of Policy. *June 2021*
 - Graduate-level coursework.
 - **Letter of Accomplishment** by Prof. Esther Duflo (2019 Economic Sciences Nobel laureate).
 - Affiliate of the MIT Alumni Association.
- **Martin Luther University of Halle-Wittenberg** Halle (Saale), Germany.
B.Sc. in Business Economics. *June 2024*
 - Thesis about the causal effect of carbon taxation on reducing carbon dioxide emissions in the transportation sector in Denmark and Norway, supervised by Prof. Christoph Wunder, Head of the Chair of Econometrics.
 - STIBET Degree Scholarship, managed by the German Academic Exchange Service (DAAD).

EXPERIENCE

- **Social Data Science & AI Lab (SODA), Department of Statistics, University of Munich** Munich
Research Assistant. *April 2025 - Present*
 - [GIST](#): Greenhouse Gas Insights and Sustainability Tracking Project, a research collaboration project between Deutsche Bundesbank and the University of Munich, to use NLP for extracting data from companies' sustainability reports.
- **ifo Institute – Leibniz Institute for Economic Research at the University of Munich** Munich
Research Assistant. ifo Center for Energy, Climate, and Resources. *October 2024 - Present*
 - “Heterogeneous actors: How different investment behavior influences the energy transition” project, funded by the German Federal Ministry for Economic Affairs and Climate Action.
 - Cleans, wrangles, and analyses datasets, in particular ENTSO-E, using Python & R, including automating data processing routines.
- **Munich Data Science Institute (MDSI), TUM.** Garching near Munich
Research Assistant. *October 2024 - April 2025*
 - Developed a CLI to crop and rescale images in Python.
- **FIEGE** Halle (Saale)
Working Student *April 2024 - October 2024*
 - Supports logistical department in optimising orders' time.

- **Leibniz Institute of Agricultural Development in Transition Economies (IAMO)** Halle (Saale)
Research Assistant. July 2023 - April 2024
 - Conducts literature reviews, summarizes academic papers, and proofreads academic working papers; Automates and optimizes scraping and cleaning datasets using R and Python.
- **Martin Luther University of Halle-Wittenberg** Halle (Saale)
Teaching Assistant. “Makroökonomik I” undergraduate course. April 2023 - Sep. 2023
- **Halle Institute for Economic Research (IWH)** Halle (Saale)
Research Assistant. Sep. 2021 - Sep. 2023
 - Contributes to the Competitiveness Research Network (CompNet) code to be sent to the European statistical offices; Contributes to the [9th vintage of CompNet dataset](#) and the Reduced CompNet Dataset; Analyzes and cleans CompNet and other datasets (e.g., Eurostat, Orbis, Amadeus, EU KLEMS, OECD) to support the network’s research
 - Research groups “Macroeconomic Analyses and Forecasts” and “Econometric Tools for Macroeconomic Forecasting and Simulation.”; Analyzes and automates downloading of German national data to support macroeconomic modeling at IWH.

EXTRACURRICULAR ACTIVITIES

- **Consultant, Bridge Program, [Graduate Consulting Club](#),** Zurich
ETH Zurich, University of Basel, and University of Zurich. Autumn Semester 2025
 - 9-week pro bono consulting project with graduate students and postdocs from diverse disciplines, advising [SEET](#), a Swiss non-profit supporting refugees in (re)starting higher education in Switzerland.
- **Peer Editor, [MathStatBites](#),** Online
Institute for Mathematical & Statistical Innovation, hosted at the University of Chicago. June 2022 – Present
 - [MathStatBites](#) is a blog that provides succinct summaries of mathematics & statistics research for a broader audience.
 - Reviews the articles before publishing, and gives feedbacks about them.
- **Participant in “The Econometrics Game”, [Oeconomica](#),** Chicago, IL, U.S.
The University of Chicago. April 2022
 - Judges: Stéphane Bonhomme; James J. Heckman; Robert Shimer.

SKILLS & INTERESTS

- **Digital Skills:** Python (Advanced); R (Advanced); Stata (Advanced); Gurobi (Intermediate); CPLEX (Intermediate); Git (Advanced); SQL (Beginner); Tableau (Beginner); SurveyCTO (Intermediate); L^AT_EX (Advanced); Microsoft Office (Word, Excel, PowerPoint, and Outlook).
- **Languages:** Arabic (mother tongue); English (C1/C2); German (B2).