Ahmed Elhefnawy

⌂ Munich || ✉ ahmed.elhefnawy@tum.de; ✉ elhefnawy@ifo.de || ☎ (+49) 15906305467

EDUCATION

- **Technical University of Munich (TUM)** — Straubing.
  M.Sc. in Sustainable Management and Technology. — October 2024 - Present

  - **Major**: Biotechnology and Materials Science.
  - **Nominated** for an exchange semester at the University of Zurich (Fall 2025).

- **Massachusetts Institute of Technology (MIT)** — Cambridge, MA, U.S.
  MicroMasters in Data, Economics, and Design of Policy. — May 2021

  - Graduate-level coursework.
  - **Letter of Accomplishment** by Prof. Esther Duflo.
  - 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 & LLMs 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 Federal Ministry of Economics and Climate Protection.
  - Cleans, wrangles, and analyses datasets in 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.

- **Leibniz Institute of Agricultural Development in Transition Economies (IAMO)** — Halle (Saale)
  Research Assistant. — July 2023 - April 2024

  - Co-authorship an upcoming paper on the impact of Russia's war in Ukraine on the integration of grain markets in Ukraine and the Black Sea region, with Dr. Linde Götz, Deputy Head of the Department of Agricultural Markets.

- **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

- **Scholarship holder, TUM: Junge Akademie (TUMJA),**   Munich.
  TUM.   *October 2024 – Present*

  - **Nominated** by the TUM School of Management.

  - 20-month interdisciplinary research project about sustainable packaging materials in the food sector: plastic vs seaweed, with 4 other students from different academic backgrounds, supervised by Prof. Claudia Doblinger (TUM).

- **President, TUMCSE – TUM Club for Sustainable Entrepreneurship,**   Straubing, Germany.
  TUM.   *Sep. 2024 – Present*

  - Starts a collaboration with TUM Venture Labs to support students in realising their ideas.

- **Peer Editor, MathStatBites,**   Online
  Institute for Mathematical & Statistical Innovation, hosted at the University of Chicago.   *June 2022 – Present*

- **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; R; Stata; SQL; Tableau (Public Edition); Git; SurveyCTO; LaTeX; Microsoft Office (Word, Excel, PowerPoint, and Outlook).

- **Languages:** English; German; Arabic.

- **Interests:** Cinema; Classical music; Chess; Philosophy; Running.