

Ahmed Elhefnawy

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EDUCATION

- **Massachusetts Institute of Technology (MIT)** Cambridge, MA, U.S.
MicroMasters in Data, Economics, and Design of Policy. Feb. 2020 – 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; Current average grade: 2,0. Oct. 2018 – Present
 - Bachelor's Thesis at the Chair of Econometrics:
Title: “Carbon taxes and CO₂ emissions in the transport sector: a case study of Denmark and Norway using the synthetic control method.” Supervisor: Christoph Wunder.
 - **Electives:** Economics of Money, Banking, and Financial Markets; International Finance; Innovation Economics; Empirical Economics with R; Data Science I & Data Science II.
 - STIBET Degree Scholarship, managed by the German Academic Exchange Service (DAAD).

EXPERIENCE

- **Leibniz Institute of Agricultural Development in Transition Economies (IAMO)** Halle (Saale), Germany
Research Assistant, The Department of Agricultural Markets. July 2023 - Present
 - Collects, manipulates, and analyzes several datasets, including agricultural, trade, and climate data, using R, Python, Stata, and Microsoft Excel.
 - 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), Germany
Research Assistant, The Department of Macroeconomics. April 2023 - Sep. 2023
 - Supports the teaching and instructors for the course “Makroökonomik I.”
- **Halle Institute for Economic Research (IWH)** Halle (Saale), Germany
Research Assistant, The Department of Macroeconomics. April 2023 - Sep. 2023
 - Supports the research groups “Macroeconomic Analyses and Forecasts” and “Econometric Tools for Macroeconomic Forecasting and Simulation.”
 - Analyzes, and contributes to the automation of downloading, the German national data, using R, to provide scientific assistance for the macroeconomic modelling at IWH.
 - Automates data collection, processing, and manipulation using Python.
- **Research Assistant, The Competitiveness Research Network (CompNet).** Sep. 2021 - Mar. 2023
 - Works on, and contributes to the 9th vintage of CompNet dataset.
 - Analyzes the CompNet data and cleans and analyzes other datasets (e.g. Eurostat, Orbis, Amadeus, EU KLEMS, OECD) to provide scientific assistance for the network's research.
 - Contributes to CompNet code, in Stata, that is sent to the European Statistical Offices to collect micro-aggregated data at different levels of aggregation from each country's firm-level microdata.
 - Works on the Reduced CompNet Dataset: a carefully cleaned dataset that contains few critical variables for the policy-oriented users.
- **Martin Luther University of Halle-Wittenberg** Halle (Saale), Germany
Student Assistant, The Evaluation Office. May 2019 - Feb. 2020
 - Collects the students' evaluations for the university courses through standardized surveys.
 - Summarizes the collected data, with visualizations, and sends it to the professors of the evaluated courses.

EXTRACURRICULAR ACTIVITIES

- **“Machine Learning” Specialization,**
offered by Stanford University & DeepLearning.AI, via [Coursera](#). *Nov. 2023*
 - Online, non-credit 3-course specialization. Taught by Andrew Ng.
 - Covers supervised learning, unsupervised learning, recommender systems, and reinforcement learning.
- **Peer Editor, MathStatBites,**
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*
 - Fast-paced econometrics competition for undergraduate students.
 - Judges: Stéphane Bonhomme; James J. Heckman; Robert Shimer.
- **Associate Member, Global Volunteer,** Halle (Saale), Germany
AIESEC. *Mar. 2021 – Jan. 2022*
 - **Intensive** support and quick contact for students who want to complete a social project abroad.
 - **Assistance** in finding social/volunteering projects and compiling all the necessary documents for the stay abroad.

DIGITAL SKILLS

- Python; R & RStudio; SQL; Stata; Tableau (Public Edition); Git; L^AT_EX; Microsoft Office (Word, Excel, PowerPoint, and Outlook).

LANGUAGES

- Arabic (Native); English (C1); German (B1).

REFERENCES

- **Dr. Miranda Svanidze.**
Research Associate, Department of Agricultural Markets, IAMO.
E-mail: svanidze@iamo.de.
- **Dr. Matthias Mertens.**
Head of the Research Group “Market Power, Input Costs, and Technology”, IWH.
Coordinator of the Scientific Team of CompNet, IWH.
E-mail: matthias.mertens@iwh-halle.de
- **Prof. Dr. Christoph Wunder.**
Chairholder of the Chair of Econometrics, Martin Luther University of Halle-Wittenberg.
E-mail: christoph.wunder@wiwi.uni-halle.de.
- **Prof. Dr. Lena Tonzer.**
Head of the Chair of Macroeconomics, Otto von Guericke University of Magdeburg.
Research Fellow, Department of Financial Markets, IWH.
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