



Eyayaw Beze

Ph.D. Candidate in Economics

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Ph.D. in economics with expertise in scientific research and data science with R, Python, and SQL. Skilled in generating, cleaning, analyzing, and visualizing data and estimating econometric models. Experienced in conducting reproducible research, utilizing GIS and spatial data.

Experience

University of Duisburg-Essen

Essen, Germany

Scientific Researcher

October 2020 - March 2024

- Applied advanced statistical techniques to analyze data, revealing insightful patterns and trends in complex datasets.
- Taught econometrics tutorials with high student feedback.
- Authored and co-authored peer-reviewed articles on key urban economics topics.

Leibniz Institute for East and Southeast European Studies (IOS)

Regensburg, Germany

Intern & Research Assistant

April 2019 - October 2019

- Decompose trade growth in East & Southeastern European countries and Russia under the supervision of Prof. Richard Frensch.
- Updated the IOS Database of Economic and Social Models, enhancing its accuracy and comprehensiveness.

Jimma University

Jimma, Ethiopia

ICT and e-Learning Coordinator

November 2016 - July 2017

- Upgraded teaching equipment such as PowerPoint projectors and other e-learning infrastructure.
- Supervised maintenance of student computer labs, installing software, and enhancing security.
- Created, updated, recovered, and maintained student and staff accounts, enhancing e-learning access and interaction.

Jimma University

Jimma, Ethiopia

Lecturer of Economics

January 2016 - August 2017

- Taught undergraduate quantitative economics courses with high evaluations from students and peers.
- Created supportive, dynamic, and engaging learning environment, such as lab sessions for econometrics, and employed diverse strategies to accommodate various learning styles.
- Provided additional tutorials for females and students with disabilities.

Jimma University

Jimma, Ethiopia

Graduate Assistant

August 2012 - August 2014

Education

Ruhr Graduate School in Economics

Essen, Germany

Ph.D. in Economics

October 2019 - July 2024

Corvinus University of Budapest, University of Regensburg, Trento, and Ljubljana

Budapest, Hungary

Master of Arts in Comparative Local Development

September 2017 - September 2019

KDI School

Sejong-si, South Korea

Master of Arts in Development Policy

August 2014 - May 2015

Bahir Dar University

Bahir Dar, Ethiopia

Bachelor of Arts in Economics

October 2008 - June 2012

Skills

Technical	R, Python, Stata, MATLAB, SQL, QGIS, PySpark, Git/GitHub, Zsh, \LaTeX , Quarto/(R)Markdown, Shiny
Research	Scientific writing, research methods, econometrics, reproducible workflow
Languages	Amharic (Native), English (Fluent), German (Basic)

Research Projects

- **Testing the Gradient Predictions of the Monocentric City Model in Addis Ababa** (April 2024):
Validated the Alonso-Mills-Muth model and analyzed satellite-based building footprint datasets to examine the structural features of Addis Ababa. Constructed georeferenced real estate data for Addis Ababa by scraping, cleaning, and geocoding 70,000+ housing listings from online platforms. [Paper](#) | [Code](#) | [Data](#)
- **The Impact of COVID-19 on Real Estate Markets in Germany** (January 2024):
A comprehensive analysis of the German housing market dynamics during the pandemic. Employed R, Python, and GIS techniques for data manipulation and econometric methods for insightful analysis. [Paper](#) | [Code](#)
- **Geographic Constraints and the Housing Supply Elasticity in Germany** (February 2023):
Investigated housing supply elasticity using ImmobilienScout24 data. Developed measures of land undevelopability and conducted econometric analysis to estimate the elasticity and the impact of geographic supply constraints. [Paper](#) | [Code](#)

Additional Training

RWI - Leibniz Institute for Economic Research

Workshop on Spatial Data for Economists

Essen, Germany

July 2023

University of Minho

The 18th NIPE Summer School - The Econometrics of Big Data

Braga, Portugal

June 2022

Barcelona Institute of Economics (IEB)

Summer School in Urban Economics

Barcelona, Spain

June 2022

University of Duisburg-Essen

Advanced R for Econometricians

Essen, Germany

September 2019 - February 2020

University of Regensburg

Web and Data Science with R

Regensburg, Germany

February 2018 - August 2018

Interests

- **Data Science:** Enjoy working with data from generation (web scraping) to wrangling, visualization, analysis, and interpretation.
- **Urban Economics:** Passionate about studying city dynamics through data-driven methods and geospatial analysis.
- **Operating Systems:** Enthusiast of macOS and Linux, and exploring command line tools.
- **Sports:** Avid football player and fan, enjoy biking and running.