

# Markos Farag

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## Contact Information

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## Education

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### PhD student

University of Cologne

- Focus: Energy Economics
- Advisor: Prof. Dr. Marc Oliver Bettzüge

**2020 – Present**  
Cologne, Germany

### Research Stay

Center for Energy Studies (CES), LSU

- Attended advanced seminars and lectures on the global and US gas and oil markets.
- Presented doctoral research at research colloquia.
- Collaborated with scholars from CES.

**2023**  
Louisiana, US

### MSc Economics

Cairo University

- Master's Thesis: Natural Gas Demand Analysis: The Case of Egypt
- Advisor: Prof. Chahir Zaki
- Grade: Excellent

**2016 – 2019**  
Cairo, Egypt

### Erasmus Studies

University of Padova

- Program: Erasmus+ Higher Education Student and Staff Mobility.
- Courses: Time Series Econometrics, Theory of Economic Growth, Mathematical Economics

**2017 – 2018**  
Padova, Italy

### BSc Economics

Cairo University

- Major: Economics, Minor: Statistics
- Grade: Excellent with the Grade of Honor
- Bachelor's Thesis: The Role of Small and Medium Enterprises in Achieving Economic Growth in Egypt.
- Grade: Excellent

**2011 – 2015**  
Cairo, Egypt

## Teaching Experience

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### Teaching Assistant

Chair of Energy Economics - University of Cologne

- Mentor for the course "Energy Economics Seminar (Econometrics Focus)".
- Supervision and Mentoring of Bachelor and Master Theses.

**2021 – Present**  
Cologne, Germany

### Teaching Assistant

Faculty of Economics and Political Science (FEPS), Cairo University

- **Courses Taught:** Introduction to Macroeconomics - Fall 2016; Introduction to Econometrics - Spring 2017, Spring 2018; Intermediate Macroeconomics - Fall 2018; Intermediate Econometrics - Spring 2019.
- **Responsibilities:** Assisted with course instruction, prepared course materials, conducted review sessions, held office hours to assist students with coursework, and graded student assignments.

**2016 – 2019**  
Cairo, Egypt

## Other Professional Experience

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### Academic Coordinator

2023 – Present

H2Markets Project

Cologne, Germany

- Coordinate academic activities and collaborations between the University of Cologne, the American University in Cairo, the British University in Egypt, and Université Mohammed V in Rabat.
- Facilitate communication and project alignment across partner institutions.
- Organize and manage meetings, summer and winter schools, and seminars for project participants.
- Support the development and dissemination of research outputs related to hydrogen supply chain studies.
- Assist with administrative tasks and ensure compliance with project timelines and objectives.

### Research Associate (Part-time)

2021 – 2022

Institute of Energy Economics (EWI) - University of Cologne

Cologne, Germany

- Collaborated with colleagues on two consulting projects related to the European gas market.
- Assisted with other minor tasks as needed.

### Academic Coordinator

2018 – 2019

The Master in Law and Economics of the Arab Region

- Coordinated a joint master's program between Cairo University, Egypt, and the University of Hamburg, Germany.
- Ensured consistency in the curricula between the partner universities.
- Managed student registration, course scheduling, and other academic records.
- Assisted with organizing academic events related to the program, such as workshops and conferences.

### Junior Economist (Part-time)

2016 – 2017

Center for Economic and Financial Research and Studies, Cairo University

Cairo, Egypt

- Participated in economic research, carrying out tasks such as data collection and statistical analysis.
- Worked as a research assistant on the “Research, Development, and Innovation Business Enterprises: Experience from Egypt” project.

### Research Assistant (Full-time)

2015 – 2016

Egyptian Center for Economic Studies (ECES)

Cairo, Egypt

- Worked on a consulting project focused on mapping poverty and identifying development issues in Egypt.
- Assisted in the preparation of the 2016 Global Competitiveness Report on Egypt, which was facilitated by the ECES in collaboration with the World Economic Forum (WEF).

### Student Assistant

2014 – 2015

Center for Economic and Financial Research and Studies, Cairo University

Cairo, Egypt

- Provided support to my professors by assisting with data collection and cleaning.

## Publications

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### JOURNAL ARTICLES

Re-Validating the Phillips Curve Hypothesis in Africa and the Role of Oil Price: A Mixed Frequency Approach. *Energy*, 131862. (With Ephraim Ogbonna, OlaOluwa Yaya, Olusanya Olubusoye)

On the economic and political determinants of trade in natural gas.. *The World Economy*; 2024, 47(2), 806-836. (With Chahir Zaki)

A Deep Learning Approach for Prediction of Electric Vehicle Charging Stations Power Demand: The Case of Morocco. *Cleaner Energy Systems*; 3 (2022) (With Mouaad Boulakhbar, Tarik Kousksou, Malika Zazi)

Price and Income Elasticities of Natural Gas Demand in Egypt: A Bound Test Approach. *Review of Middle East Economics and Finance*; 17 (2021) (With Chahir Zaki)

## WORKING PAPERS

Global Natural Gas Market Integration in the Face of Shocks: Evidence from the Dynamics of European, Asian, and US Gas Futures Prices. *Energiewirtschaftliches Institut an der Universitaet zu Koeln (2023-3); 2023* (With Samir Jeddi, Jan Kopp)

Can Futures Prices Predict the Real Price of Primary Commodities?. *LCERPA Working paper No. 2024-3* (With Stephen Snudden, Greg Upton)

## CONFERENCE PROCEEDINGS

Does Information Substitute or Complement Energy? A Mediation Analysis of their Relationship in European Economies. *VfS Annual Conference 2022 (Basel): Big Data in Economics; 2022* (With Philipp Theile, Thomas Kopp)

## Conference and Seminar Presentations

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- 2024 11th International Ruhr Energy Conference (*Essen, Germany*); 2024 RCEA International Conference in Economics, Econometrics, and Finance (*London, UK*).
- 2023 44th IAEE International Conference (*Riyadh, Saudi Arabia*); 10th International Ruhr Energy Conference (*Essen, Germany*); USAEE/IAEE North American 2023 conference (*Chicago, USA*)
- 2022 Global Economic Policy Group meeting 2022: Macroeconomic Politics, Integration and Trade (*Berlin, Germany*); Seminar on Statistics and Econometrics (*University of Kiel, Germany*); Climate Econometrics Seminar at Nuffield College at the University of Oxford (*Virtual*); 40th Annual Meeting of the Middle East Economic Association (MEEA), Allied Social Science Associations, Chicago, USA (*Virtual*).
- 2021 16th Annual Conference - Warsaw International Economic Meeting (*Virtual*); Hagen Workshop on Global Economic Studies (*Virtual*); USAEE/IAEE North American 2021 conference (*Virtual*); 10th International Ruhr Energy Conference (*Essen, Germany*)
- 2020 13th RGS Doctoral Conference in Economics 2020 (*Essen, Germany*)
- 2019 EMNES Annual Conference, "Towards A Regional Integration and Employment Driven Socio-Economic Model in the Mediterranean" (*Brussels, Belgium*); Policy, Awareness, Sustainability, and Systems Workshop (PASS 2019) (*University of Cologne, Germany*)

## Summer Schools

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- Aug 2023 International Max Planck Research School on Behaviorally Smart Institutions, Max Planck Institute for Research on Collective Goods, St Josef Hersberg in Immenstaad - Lake Constance.
- Mar 2022 Using Simulation Studies to Evaluate Statistical Methods, GESIS – Leibniz-Institut für Sozialwissenschaften
- Aug 2020 Tools for Macroeconomists: Advanced Tools, London School of Economics and Political Science
- Sep 2018 The 1st German-Arab Summer School in Behavioral and Experimental Economics, University of Hamburg
- Aug 2017 The 6th German-Arab Summer School in Law and Economics, University of Hamburg

## Scholarships and Awards

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- Jun 2023 Scholarship from the Max Planck Institute for Research on Collective Goods to attend the International Max Planck Research School's Summer School, August 2023.

- Mar 2022 Scholarship from GESIS – Leibniz-Institut für Sozialwissenschaften to attend the Spring Seminar 2022 on “Using Simulation Studies to Evaluate Statistical Methods.”
- Oct 2019 Doctoral scholarship for Ph.D. studies at the University of Cologne, Germany.
- Aug 2018 DAAD scholarship to attend a summer school program in Behavioral and Experimental Economics, Germany.
- Aug 2017 DAAD scholarship to attend a summer school program in Law and Economics, Germany.
- Oct 2017 Erasmus+ scholarship to attend advanced courses in Economics at the University of Padova, Italy.
- June 2015 Awarded a Distinction with Honors for a B.Sc. degree in Economics, Cairo University.
- Sep 2014 Awarded the general excellence award for the academic years 2011/12 and 2014/15, Cairo University.

## Internship Programs

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- Jul 2014 Egyptian Center for Economic Studies (ECES), Cairo, Egypt.
- Aug 2013 Economic Research Department, Central Bank of Egypt, Cairo, Egypt.
- Feb 2012 Egyptian Competition Authority (ECA), Giza, Egypt.

## Extracurricular Activities

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- 2020-2023 Initiated and facilitated a collaboration between the University of Cologne (UoC) and the British University in Egypt (BUE), leading to the DAAD project “Building a Sustainable Energy Future” (BaSEF). This collaboration aims to establish long-term academic cooperation between UoC’s Institute of Energy Economics (EWI) and BUE’s Faculty of Economics. Project activities include organizing summer and winter schools and other academic events.
- Jun 2018 Organized a winter school program on “Corruption: Causes, Consequences, and Measurement” at the British University in Egypt (BUE), Cairo, Egypt, in collaboration with the Institute of Law and Economics at the University of Hamburg.
- Nov 2017 Selected as one of seven teaching assistants by the Economics Department to be a member of the quality assurance team at Cairo University.
- Mar 2015 Collaborated with a team of professors and students to organize a roundtable discussion on economic development and family planning in Egypt at the Ministry of Planning, Cairo, Egypt.
- Dec 2014 Served as the head of the academic committee at “Students against Corruption” (SAC), an educational simulation program at Cairo University, sponsored by Siemens. My role involved giving sessions to delegates about ways to fight corruption and acquainting them with the “UN Convention against Corruption”.
- Oct 2013 Participated in the organizing team for a seminar on “How to Achieve Inclusive Growth and Social Justice in Egypt?”, organized by the Faculty of Economic and Political Science, Cairo University, Egypt, and the World Bank.

## Skills

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**Econometric Analysis Software:** EViews, STATA, R, RATS  
**Other:** Microsoft Office, LaTeX