

# GABRIEL APPAU ABEYIE

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## EDUCATION

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**University of Tennessee, Knoxville.** Aug 2020 - May 2025

*Doctor of Philosophy (Ph.D), Economics*

**University of North Texas, Denton.** Aug 2018 - May 2020

*Master of Science (MS), Economics*

**University of Ghana, Accra, Ghana.** Aug 2013 - May 2017

*Bachelor of Arts (BA), Economics & Statistics, Double Major.*

## RESEARCH INTERESTS

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- Macroeconomics
- Time Series Forecasting
- Machine Learning
- International Finance

## RESEARCH

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### Job Market Paper

Identifying Oil Supply News Shocks: The Impact of OPEC Announcements Using Textual Data

### Working Paper

Beyond News Headlines and TF-IDF: Enhancing Text-Based Forecasting Models with Validated Collocations and Improved Attention. (R&R at *International Journal of Forecasting*)

[Working Paper Version](#)

### Works In Progress

- Forecasting Crude Oil Price Returns: A Principal Weighted-Elastic Net (PW-EN) Approach (with Andrew Hanson)
- Welfare Implications of Bubble Dynamics (with Andrew Hanson)
- A Regularized Scaled-Sliced Inverse Regression (REGs-SIR) for High Dimensional Data
- The Role of Expert Opinion and Analysis in the Crude Oil Market

## TEACHING

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### **Independent Instructor**

**Aug 2022 - Dec 2022**

University of Tennessee, *Principles of Macroeconomics* (4.1/5 Evaluation)

- Instructed a class of 100 undergraduate students.
- Developed course lectures, assignments, and quizzes.
- Graded assignments and held regular office hours.

### **Teaching Fellow (Independent Instructor)**

**Jan 2020 - May 2020**

University of North Texas, *Principles of Macroeconomics* (4.6/5 Evaluation)

- Led a class of 47 undergraduate students.
- Created lecture materials, assignments, and assessments.
- Graded coursework and maintained regular office hours.

**Teaching Fellow (Independent Instructor)**

**Aug 2019 - Dec 2019**

University of North Texas, *Principles of Macroeconomics* (3.9/5 Evaluation)

- Taught a class of 48 undergraduate students.
- Prepared lecture content and evaluated student performance.
- Graded assignments and held regular office hours.

**Graduate Teaching Assistant/Recitation Instructor**

**Jan 2020 - May 2020**

University of North Texas, *Advanced Econometrics* (PhD coursework)

- Conducted tutorial sessions for first-year PhD students.
- Graded assignments and managed course grading.

**Graduate Teaching Assistant/Recitation Instructor**

**Aug 2019 - Dec 2019**

University of North Texas, *Mathematical Economics* (PhD coursework)

- Led tutorial sessions for first-year PhD students.
- Assisted with homework preparation and grading.
- Managed course grading records.

**Graduate Teaching Assistant**

**Jan 2019 - May 2019**

University of North Texas, *Public Economics*

- Assisted students with homework and exam preparation.

**Academic Assistant**

**Aug 2018 - July 2019**

University of North Texas, *Principles of Microeconomics & Macroeconomics*

- Provided homework and exam assistance to students.
- Graded assignments and quizzes.
- Monitored exams and maintained grading records.

## PRESENTATIONS

**University of Tennessee, Knoxville.**, Economics Brown Bag Seminar Series

Fall 2021

*Welfare Implications of Bubble Dynamics*

**Southern Econ. Assoc.**, 92nd Annual Conference, Fort Lauderdale, FL.

November 19-21, 2022

*Welfare Implications of Bubble Dynamics*

**University of Tennessee, Knoxville.**, Economics Brown Bag Seminar Series

Fall 2023

*Identifying Oil Supply News Shocks: The Impact of OPEC Announcements Using Textual Data*

**University of Tennessee, Knoxville.**, Economics Brown Bag Seminar Series

Fall 2024

*Forecasting Crude Oil Price Returns: A Principal Weighted-Elastic Net (PW-EN) Approach*

**Southern Econ. Assoc.**, 94th Annual Conference, Washington, DC.

November 23-25, 2024

1. *Identifying Oil Supply News Shocks: The Impact of OPEC Announcements Using Textual Data*

2. *Beyond News Headlines and TF-IDF: Enhancing Text-Based Forecasting Models with Validated Collocations and Improved Attention.*

## AWARDS AND SCHOLARSHIPS

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<b>Aaron Wuensch Memorial Scholarship for the Top Graduate Student Award</b> University of North Texas, Department of Economics.	<b>April 2019</b>
<b>J. Fred and Wilma Holly Fellowship</b> University of Tennessee, Department of Economics.	<b>Aug 2020 - May 2025</b>
<b>Texas Public Education Grant (TPEG)</b> Division of International Affairs, University of North Texas.	<b>Aug 2019</b>
<b>Toulouse Graduate Scholarship</b> Toulouse Graduate School, University of North Texas.	<b>Aug 2019</b>
<b>Mary D. Walsh Endowed Scholarship</b> Toulouse Graduate School, University of North Texas.	<b>April 2019</b>
<b>Toulouse Graduate Scholarship</b> Toulouse Graduate School, University of North Texas.	<b>Jan 2019</b>

## SKILLS

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**Programming Languages:** Python, R, MATLAB, Stata

## MEMBERSHIPS

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- American Economic Association
- International Institute of Forecasters
- Southern Economic Association

## REFERENCES

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**Andrew S. Hanson, PhD**  
Department of Economics  
University of Tennessee, KN  
ahanson@utk.edu

**Luiz R. Lima, PhD**  
Department of Economics  
University of Tennessee, KN  
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**Mohammed Mohsin, PhD**  
Department of Economics  
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