

# GABRIEL APPAU ABEYIE

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## EDUCATION

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| <b>University of Tennessee</b> , Knoxville.<br><i>Doctor of Philosophy (Ph.D)</i> , Economics                      | Aug 2020 - May 2025 |
| <b>University of North Texas</b> , Denton.<br><i>Master of Science (MS)</i> , Economics                            | Aug 2018 - May 2020 |
| <b>University of Ghana</b> , Accra, Ghana.<br><i>Bachelor of Arts (BA)</i> , Economics & Statistics, Double Major. | Aug 2013 - May 2017 |

## RESEARCH INTERESTS

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

## RESEARCH

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### Job Market Paper

Identifying OPEC News Shocks: The Impact of OPEC Announcements Using Textual Data  
[Working Paper](#)

### Working Paper

Beyond News Headlines and TF-IDF: Enhancing Text-Based Forecasting Models with Validated Collocations and Improved Attention. (**Revise & Resubmit at *International Journal of Forecasting***)  
[Working Paper](#)

### 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**

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.

**Aug 2022 - Dec 2022**

- 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.
- Graduate Teaching Assistant** **Aug 2021 2019 - May 2023**  
 University of Tennessee, Knoxville *Intermediate Macroeconomics*  
 • Assisted with homework preparation and grading.  
 • Managed course grading records.
- 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

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- 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 OPEC 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  
ahanson8@utk.edu

**Luiz R. Lima, PhD**  
Department of Economics  
University of Tennessee, KN  
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**Margie A. Tieslau, PhD**  
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