ONYEDIKACHI "EMMANUEL" CHIKE

Business Analytics Lecturer
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EDUCATION

- **Doctor of Philosophy (Ph.D.) in Applied Economics (2025)**
  Texas Tech University, Lubbock, TX.
  Field: Machine Learning, Data Analytics, Applied Econometrics, and Health Economics.
  Dissertation: Using Interpretable Machine Learning and Event Study in Analyzing Health Policy and Outcomes.
  Advisors: Conrad Lyford, Ph.D., and Syed Badruddoza, Ph.D.

- **Master of Science in Applied Economics (2024)**
  Texas Tech University, Lubbock, TX.

- **Master of Arts in Economics (2020)**
  Georgia State University, Atlanta, GA.
  Thesis: The Impact of Medicaid Expansion on Overweight
  Advisor: James Marton, Ph.D.

- **Bachelor of Science (BSc.) in Economics (1st Class Honors - Summa Cum Laude Equiv.) (2016)**
  Gregory University, Abia State, Nigeria.
  Project: Effect of Public Sector Expenditure on Economic Growth
  Advisor: Chinazaekpere Nwani, MS.

RESEARCH INTERESTS

- Machine Learning (ML) and Artificial Intelligence (AI) for Business Applications
- Applied Econometrics and Data-Driven Business Analytics
- AI/ML-Driven Healthcare and Labor Analytics for Business and Policy
- Management Decision Science and Strategic Analytics

RESEARCH: PUBLICATIONS

Under Review

- Chike, O.E., Oduniyi, S., Nwaiwu, J.I. (2025). An Interpretable Machine Learning Approach to Predicting Chronic Health Conditions. *Computational Economics*, Under Review.

- Oduniyi, S., **Chike, O.E**., Antwi, M. (2025). Machine Learning and Econometric Approaches to Understanding the Welfare Benefits of Cooperative Membership of Farmers in South Africa. *Scientific Africa*, Revise and Resubmit.

- Chike, O. E., Badruddoza, S., Lyford, C. (2025). Vaping and Smoking as Risk Factors for Arthritis: Evidence from Double Machine Learning. *Statistics in Medicine*, Submitted.

Published

- Adu, D. T.; Denkyirah, E. K.; **Chike, O. E.;** Muhoza, F. (2024). Effect of Economic Freedom on Women's Empowerment: Empirical Evidence from Developing Countries. *The Journal of Private Enterprise*, 39(4): 27-42.

- **Chike, E**., Wallace, S. (2020). Impact of Artificial Intelligence on Labor Force in Georgia. *Center for State and Local Finance, Andrew Young School of Policy Studies, Georgia State University:* Atlanta.
- Bluestone, P., **Chike, E**. & Wallace, S. (2020). The Future of Industry and Employment: COVID-19 Effects Exacerbate the March of Artificial Intelligence. *Center for State and Local Finance, Andrew Young School of Policy Studies, Georgia State University*, Atlanta.

Book Chapter
- Rajbhandari-Thapa, J., **Chike, O.E**., Lyford, C. (2024). Economic Aspects of Public Health Nutrition Across the Life Cycle. In K. Thompson, M. M. Barth, and M. D. Gutschall (Eds), *Life Cycle Nutrition for Public Health Professionals*. Springer. DOI:10.1891/9780826186232.0014.

RESEARCH: MANUSCRIPTS IN-PROCESS

- The Impact of Medicaid Expansion on Mortality: A Heterogeneous Treatment Approach (with Conrad Lyford). Targeted Journal: *Global Health: Science and Practice*. Manuscript ready to be submitted

- Predicting the Determinant and Effect of Vaping on Health Outcomes Using Gradient Boosting Algorithms. Targeted Journal: *Computational Economics*. Currently performing data analysis.

- Analyzing the Fragility of Innovation Ecosystems: A Machine Learning Approach to Predicting Startup Failures. Targeted Journal: *Journal of Business Venturing Insight*. Currently collecting data.

- Estimating Factors Impacting Student Belongingness, Health, and Satisfaction. Collecting Data.

- Leveraging Machine Learning to Explore the Links Between Preventive Care, Risky Behaviors, and Lung Cancer Risk. Currently in data collection.

CONFERENCE PRESENTATIONS

- **Chike, O.E**., Badruddoza, S., Lyford, C. (2025) "Vaping Vs. Smoking: The Links To Arthritis And Overall Health Using Double Machine Learning", 2025 AAEA & WAEA Joint Conference, Denver, Colorado.
- Velázquez, Y., **Chike, O.E**., Guerrero, P., Palmer, E., Lujan, J., Lyford, C. (2024). "Estimating Factors Impacting Student Belongingness and Satisfaction". Hispanic Serving Institution (HIS) 2024 Summit, Lubbock, TX.
- **Chike, O.E**., Lyford, C. (2023). The Impact of Medicaid Expansion on Mortality: A Heterogeneous Treatment Approach. 2024 CATO Health Policy Workshop. Washington, DC.
- **Chike, O.E**., Wallace, S. (2019). Impact of Artificial Intelligence on Labor Force in Georgia. Joint Center for Political and Economic Studies. Atlanta, GA. October 2023.

TEACHING EXPERIENCE

- BA B100 – Artificial Intelligence (A.I.) and the Future of Business
- BUAN T294 – Telling Story with Data
- AAEC 2305 – Microeconomics
- ECON 5414 – Econometrics (Ph.D. class)
- ECON 4305 – Introduction to Econometrics
- ECON 4322 – Labor Economics
- ECO 205 – Mathematics for Economics (Calculus 1)
- ECO 323 – Introduction to Econometrics

HONORS, FELLOWSHIP, AND SCHOLARSHIP

- Erin A. Wheeler-Cook Endowed Scholarship, 2024 (Texas Tech University)
- Helen DeVitt Jones Graduate Fellowship, 2021-2023 (Texas Tech University, Graduate School)
- W.B. Rushing Family Endowed Ag. Marketing Scholarship, 2022-2023. (Texas Tech University)
- Bayer Crop Science Graduate Endowed Agricultural Scholarship, 2022-2023 (Texas Tech University).
- Outstanding Master's Student Award, 2019 (Georgia State University, Department of Economics).
- Best Graduating Student Leader, 2016 (Gregory University-wide)
- Best Graduating Student, 2016 (Gregory University, Economics Department)
- Best Graduating Scholar, 2016 (Gregory University, Joseph Boakai College)
- 2015 Chancellor's Merit Summer Exchange Program Scholarship, 2016 (Gregory University, Uturu).
- Academic Session Overall Highest CGPA, 2013/2014 (Gregory University-wide, 2nd Place).
- Academic Session Overall Highest CGPA, 2012/2013 (Gregory University-wide - 1st Place).

PROFESSIONAL EXPERIENCE

Business Analytics Lecturer | August 2025 – Present
College of Business, Loyola University New Orleans, LA.
- Teach courses in analytics and AI-driven decision-making, equipping students with the skills to apply data insights to business strategy.

Instructor | August 2023 – July 2025
Texas Tech University, Lubbock, TX.
- Taught undergraduate economics courses, integrating real-world applications and data-driven methods to enhance student learning, engagement, and understanding of core economic principles.

Economist – Intern | May 2024 – August 2024
GM Financial, Fort Worth, TX.
- Developed and deployed an automated financial model predicting residual vehicle values with $8M exposure identified; evaluated risk models for competitive insights; and built a dynamic database processing 1M+ records, streamlining data workflows and boosting efficiency.

Research Assistant | October 2022 – July 2025
Texas Tech University, Lubbock, TX.
- Leverages big data, econometrics, and machine learning to build predictive models and analyze 500K+ observations, generating insights that inform labor and health policy, assess economic impacts, and guide strategic decision-making.

Statistical Consultant| May 2022 – October 2022
Graduate School, Texas Tech University, Lubbock, TX.
- Delivered advanced statistical consulting to 50+ researchers, applying econometrics, predictive modeling, and data transformation to improve research accuracy, financial modeling, and market analysis.

Teaching Assistant | August 2020 – July 2022
Texas Tech University, Lubbock, TX.
- Assisted in teaching undergraduate and graduate economics courses by leading discussions, grading assignments, and providing academic support to enhance student learning and engagement.

Research Assistant | August 2018 – May 2020
Andrew Young School of Policy Studies, Georgia State University, Atlanta, GA.
- Researched AI and job automation, applying statistical modeling to analyze labor trends and inform

policy, driving an increase in workforce development programs.

Program Analyst | May 2019 – July 2019
Mandela Washington Fellowship for Young African Leaders Initiative.
- Developed evaluation models and conducted impact analyses to improve program effectiveness while providing data-driven insights on business, leadership, and policy.

Instructor / Graduate Assistant | November 2016 – July 2018
Gregory University, Abia State, Nigeria.
- Taught undergraduate classes and conducted economic and financial research on macroeconomic trends, developing econometric models that improved forecasting accuracy.

Research Assistant | November 2016 – October 2017
Federal University, Wukari, Nigeria.
- Led economic policy research on regulatory and financial compliance, applying quantitative analysis to evaluate impacts and supporting funding acquisition through high-quality and credible insights.

PROFESSIONAL SERVICE

Reviewer: Journals:
- Computational Economics: Ad Hoc Reviewer (3 Manuscripts)
- Healthcare Analytics: Ad Hoc Reviewer (1 Manuscript)
- Discover Sustainability: Ad Hoc Reviewer (1 Manuscript)
- Journal of Agribusiness in Developing and Emerging Economies: Ad Hoc Reviewer (1 Manuscript)
- Discover Agriculture: Ad Hoc Reviewer (4 Manuscripts)

PROFESSIONAL AFFILIATIONS
- Association for the Advancement of Artificial Intelligence (AAAI), Member, 2024 – Present.
- International Society for Data Science and Analytics (ISDA), Member, 2024 – Present.
- American Economic Association (AEA), Member, 2024 – Present.
- Southern Economic Association (SEA), Member, 2024 – Present.
- American Public Health Association (APHA), Member, 2024 – Present.

REFERENCES

Conrad Lyford, Ph.D.
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Texas Tech University, Lubbock, TX.
Phone: 806-834-6881
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Syed Badruddoza, Ph.D.
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