

ONYEDIKACHI “EMMANUEL” CHIKE

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EDUCATION

- **Doctor of Philosophy (Ph.D.) in Applied Economics** **August 2025**
Texas Tech University, Lubbock, TX.
Field: Machine Learning, Data Analytics, Health Policy, Applied Econometrics .
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** **December 2024**
Texas Tech University, Lubbock, TX.
- **Master of Arts in Economics** **May 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) **October 2016**
Gregory University, Abia State, Nigeria.
Project: Effect of Public Sector Expenditure on Economic Growth
Advisor: Chinazaekpere Nwani, MS.

RESEARCH INTERESTS

- Applied Machine Learning (ML) and Artificial Intelligence (AI)
- Healthcare Analytics
- Data Analytics and Applied Econometrics
- Management Decision Science and Strategic Analytics
- Labor Economics and Economics of AI

SKILLS

- **Technical Skills:**
Python, R, SAS, STATA, SQL, SPSS, GTAP, MATLAB, EViews, Tableau, Power BI, MS Office 365.
- **Machine Learning & Quantitative Skills:**
Logistic Regression, GBM, XGBoost, LightGBM, Random Forest, ExtraTree, Decision Trees, Neural Networks, LSTM, NLP, DML, Causal Models, Time Series, etc.
- **AI Tools:**
Julius.ai, Perplexity.ai, Gemini, Claude, ChatGPT, Ideogram.ai, etc.

RESEARCH: PUBLICATIONS

Articles

- **Chike, O. E.** (2026). Double Machine Learning Analysis of Vaping and Smoking as Risk Factors for Arthritis and Its Economic Implications. *PLOS One*, Decision: R&R.

- **Chike, O.E.**, Oduniyi, S., Nwaiwu, J.I. (2026). An Interpretable Machine Learning Approach to Predicting Chronic Health Conditions. *Healthcare Analytics* (Elsevier), 100454(9). <https://doi.org/10.1016/j.health.2026.100454>.
- Oduniyi, S., **Chike, O.E.**, Antwi, M. (2026). Machine Learning and Econometric Approaches to Understanding the Welfare Benefits of Cooperative Membership of Farmers in South Africa. *Scientific Africa*, e03230(31). <https://doi.org/10.1016/j.sciaf.2026.e03230>.
- 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

- Measuring AI Complementarity in Tasks: The Impact on Worker Earnings and Job Mobility. Target Journal: *Journal of Labor Economics*. Currently performing data analysis.
- Cost Barriers, Chronic Conditions, and Labor Market Outcomes: A Structural Health-Investment Model Estimated with Machine Learning. Target journal: *Computational Economics*. Currently collecting data.
- Consolidation in Healthcare Labor Markets: Impacts on Wages, Employment, and Access to Care. Target Journal: *Health Affairs*. Currently performing data analysis.
- Automation in Healthcare: How AI Adoption in Hospitals Affects Nurse Labor Markets and Occupational Task Composition. Target journal: *Health Economics*. Currently collecting data.
- The Role of Credit Access on Labor Market Mobility. Target Journal: *The Review of Economic Studies*. Currently performing data analysis.
- Welfare Analysis of Automation Risk, Skill Investment, and Intergenerational Economic Mobility. Target Journal: *IZA Journal of Labor Economics*. Currently performing data analysis.
- Neighborhood Social Capital, Employment Dynamics and Upward Mobility: Evidence from IPUMS CPS. Target Journal: *Economic Inquiry*. 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 and Smoking as Risk Factors for Arthritis: Evidence from Double Machine Learning. *2025 Southern Economics Association (SEA) Annual Conference, Tampa, FL.*
- **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

Instructor:

- BUAN B205 – Business Analytics with AI (*Loyola University New Orleans*), Spring 2026
- BUAN B493-01 – Programming for Data Analytics (*Loyola University New Orleans*), Spring 2026
- BUAN T294 – Telling Story with Data (*Loyola University New Orleans*), Fall 2025; Spring 2026
- BA B100 – A.I. and the Future of Business (*Loyola University New Orleans*), Fall 2025
- AAEC 2305 – Principles of Agricultural and Applied Economics (*Texas Tech University, Lubbock*), Fall 2023, Spring 2023

Teaching Assistant:

- ECON 5414 – Econometrics - Ph.D. class (*Texas Tech University, Lubbock*)
- ECON 4305 – Introduction to Econometrics – (*Texas Tech University, Lubbock*)
- ECON 4322 – Labor Economics (*Texas Tech University, Lubbock*)
- ECO 205 – Mathematics for Economics - Calculus 1 (*Gregory University Uturu, Nigeria*)
- ECO 323 – Introduction to Econometrics (*Gregory University Uturu, Nigeria*)

NEW COURSES DESIGNED

- Database Management and Visualization for Business (*Loyola University New Orleans*)
- Applied Machine Learning for Data Analysis (*Loyola University New Orleans*)
- Business Mathematics and Computing (*Loyola University New Orleans*)

HONORS, FELLOWSHIP, AND SCHOLARSHIP

- Erin A. Wheeler-Cook Endowed Scholarship, 2024 (*Texas Tech University*)
 - 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*)
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- 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*).

GRANTS AND AWARD MONEY

- CATO Institute, 2024 (\$3,000)
- Helen DeVitt Jones Foundation, 2021-2024 (\$24,000)

WORK EXPERIENCE

Assistant Professor, Data Analytics <i>The Rinker College of Business, Palm Beach Atlantic University, West Palm Beach, FL.</i>	July 1, 2026 - Present
Business Analytics Lecturer <i>College of Business, Loyola University New Orleans, LA.</i>	August 2025 – May 2026
Instructor <i>Texas Tech University, Lubbock, TX.</i>	August 2023 – July 2025
Economist – Intern <i>GM Financial, Fort Worth, TX.</i>	May 2024 – August 2024
Research Assistant <i>Texas Tech University, Lubbock, TX.</i>	October 2022 – July 2025
Statistical Consultant <i>Graduate School, Texas Tech University, Lubbock, TX.</i>	May 2022 – October 2022
Teaching Assistant <i>Texas Tech University, Lubbock, TX.</i>	August 2020 – July 2022
Market Research Intern <i>Labrado U.S., Atlanta, GA.</i>	May 2020 – July 2020
Research Assistant <i>Andrew Young School of Policy Studies, Georgia State University, Atlanta, GA.</i>	August 2018 – May 2020
Program Analyst <i>Mandela Washington Fellowship for Young African Leaders Initiative.</i>	May 2019 – July 2019
Instructor / Graduate Assistant <i>Gregory University, Abia State, Nigeria.</i>	November 2016 – July 2018
Research Assistant <i>Federal University, Wukari, Nigeria.</i>	November 2016 – October 2017

PROFESSIONAL SERVICE

Session Chair: Southern Economic Association (SEA):

- Smoking, Vaping, and Dust, Session Chair, 95th Annual Meeting Southern Economic Association (SEA), November 22 – 24, 2025.

AI Research Affiliate: Mercor AI Research Group:

- Model External Research Collaborator

Reviewer: Journals:

- Computational Economics: Ad Hoc Reviewer (3 Manuscripts)
- Healthcare Analytics: Ad Hoc Reviewer (2 Manuscripts)
- 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

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

REFERENCES

Conrad Lyford, Ph.D.

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Texas Tech University, Lubbock, TX.
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