**DR. TOMIWA SHODIPE**

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**Welcome to My Webpage**

I am **Tomiwa Shodipe**, an Economist and Data Scientist whose scholarly trajectory resides at the intersection of econometrics, data engineering, and applied economics. My research integrates advanced statistical modelling, machine learning, and causal inference to address questions of enduring policy relevance and strategic import for business, governance, and society. Guided by methodological rigour and analytical precision, I seek to uncover the underlying dynamics of complex economic systems, to render their structures intelligible, and to transform empirical evidence into frameworks that foster judicious decision-making and sustainable development. By uniting computational sophistication with conceptual clarity, my work aspires to transcend the conventional divide between theoretical abstraction and practical application, thereby advancing a mode of inquiry that is at once epistemologically robust and socially consequential. This page offers an account of my academic formation, publications, and professional engagements, each reflecting a commitment to intellectual depth, methodological integrity, and purposeful scholarship.

**Areas of Interest**

* Macroeconomic Modelling
* Microeconomic modelling
* Data Engineering
* Cloud Computing
* Applied Econometrics
* Machine Learning
* Business Intelligence
* Energy Analytics
* Forecasting Models
* Policy Analytics
* Process Automation

**Education**

* **Kansas State University, USA**

*PhD Energy and Econometrics (2023)*

* **Eastern Illinois University, USA**

*MSc Economics 2019*

* **University of Lagos, Nigeria**

*BSc Economics 2016*

* **Federal Polytechnic Ilaro, Nigeria**

*AS Statistics 2010*

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**Awards, Fellowships, and Grants**

* John A. Nordin Memorial Scholarship, Kansas State University (2021), USA
* Graduate Student Investigator Award, Eastern Illinois University (2018, 2019), USA
* Distinguished International Student Award, Eastern Illinois University (2018), USA
* Booth Library Award, Eastern Illinois University (2018), USA
* First Class Student Endowment Scholarship, University of Lagos (2013–2015), Nigeria
* Best Graduating Student Award in Statistics, Federal Polytechnic Ilaro (2010), Nigeria

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**Publications**

* Shodipe, T., & Shobande, O. A. (2021). Monetary policy dynamics in the United States. Open Economics, 4(1), 14–30.
* Shodipe, T., & Shobande, O. A. (2021). Price stickiness in the U.S. corn market: Evidence from DSGE-VAR simulation. Studia Universitatis Vasile Goldiș, Arad, Seria Științe Economice, 31(2), 45–63.
* Shodipe, T., & Shobande, O. A. (2021). Monetary policy inter-dependency in Fisher effect: Comparative evidence. Journal of Central Banking Theory and Practice, 10(1), 203–226.
* Shodipe, T., & Shobande, O. A. (2020). Re-evaluation of world population figures: Politics and forecasting mechanics. Economics and Business, 34(1), 25–39.
* Shodipe, T., & Shobande, O. A. (2019). New Keynesian liquidity trap and conventional fiscal stance: An estimated DSGE model. Economics and Business, 33(1), 152–169.
* Shodipe, T., & Shobande, O. A. (2019). Remittances and real exchange rate: Latest evidence from Cochrane-Orcutt econometric model. Academic Journal of Economic Studies, 5(2), 166–172.
* Shodipe, T., & Shobande, O. A. (2019). Mechanics of investment drivers in the Chinese economy. Review of Economic and Business Studies, 12(1), 7–32.
* Shodipe, T. (2019). A comparative analysis on output gap–inflation relation: The New Keynesian approach [Master’s thesis, Eastern Illinois University]. The Keep, EIU. <https://thekeep.eiu.edu/theses/4465>
* Shodipe, T. (2018). The impact of real interest rate on real exchange rate: Empirical evidence from Japan [Undergraduate research award paper]. The Keep, EIU. <https://thekeep.eiu.edu/libawards2018docs/5>

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**Research Statement**

My research is situated at the intersection of data science, econometrics, and applied economics, cultivated through doctoral training in economics and refined by expertise in data engineering, causal inference, and computational modelling. It reflects a sustained commitment to methodological rigour and analytical clarity, guided by the conviction that scalable data systems, when combined with theoretical precision, can illuminate economic dynamics and support decisions of lasting consequence for policy, business, and society. The first dimension of my scholarship advances **Data Engineering and Applied Econometrics,** where I design pipelines, integrate large-scale datasets, and employ econometric frameworks to uncover causal mechanisms shaping economic behaviour. Bayesian inference, Monte Carlo simulation, and machine learning algorithms provide the methodological foundation for this work. The second-dimension addresses **Machine Learning and Policy Analytics**, reinterpreting predictive algorithms—such as neural networks and LASSO estimators—not as ends in themselves, but as instruments of causal discovery and counterfactual reasoning. This perspective yields insights into energy markets, labour dynamics, and managerial decision-making, offering relevance across both public and private spheres. The third dimension turns to **Sustainable Energy and Business Strategy,** interrogating renewable transitions, market volatility, and resource dependence. By integrating econometric modelling with business intelligence tools, I generate analyses that connect technological innovation with strategic and policy imperatives. Through the synthesis of automation, scalable computation, and dynamic optimisation, I aim to advance economics as a data-intensive discipline that is simultaneously rigorous in theory and consequential in practice, contributing to institutional resilience and sustainable transformation.

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**Editorial and Academic Services**

* Reviewer: Journal of African Business
* Reviewer: Journal of Public Affairs
* Reviewer: International Journal of Finance and Economics
* Reviewer: International Journal of Sustainable and World Ecology
* Member: African Student Association (ASU)

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