

# Yawo M. Kobara

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## Education

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**Western University**  
P.H.D. STATISTICS

London ON, Canada  
*In progress*

**WorldQuant University**  
M.SC. FINANCIAL ENGINEERING

New Orleans LA, USA  
June 2018 - May 2021

**African Institute for Mathematical Sciences**  
M.SC. MATHEMATICAL SCIENCES

Mbour, Senegal  
June 2016 - May 2017

**University for Development Studies**  
B.SC. STATISTICS

Navrongo, Ghana  
August 2011 - June 2015

## Research Experience

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### Published Papers

- Akpan, I. J., Aguolu, O. G., Kobara, Y. M., Razavi, R., Akpan, A. A., and Shanker, M. (2021). **Association Between What People Learned About COVID-19 Using Web Searches and Their Behavior Toward Public Health Guidelines: Empirical Infodemiology Study.** Journal of medical Internet research, 23(9), e28975.
- Kobara, Y. M., Pehlivanoglu, C., and Okigbo, O. J. (2021). **A Linear Process Approach to Short-term Trading Using the VIX Index as a Sentiment Indicator** (Preprint at <https://www.preprints.org/manuscript/202107.0673/v1>).
- Kobara Yawo, Salifu Katara and Abdul-Rahaman Issahaku (2020). **Statistical Analysis and Vector Auto Regressive Model for Minimum and Maximum Temperature**, International journal of advanced research and publication, ISSN: 2456 9992.

### Research Papers in Progress

- Yawo M. Kobara, Felipe F. Rodriguez, David A. Stanford and Camila E. P. de Souza, ICU Discharge Policy under Down Stream Congestion
- Yawo M. Kobara, Felipe F. Rodriguez, David A. Stanford and Camila E. P. de Souza, ICU/SDU Queuing Game with Length-of-stay Decisions
- Yawo M. Kobara, Felipe F. Rodriguez, David A. Stanford and Camila E. P. de Souza, Analysis of ICU Ventilator Use and Demand

### Unpublished Research

- Yawo M. Kobara, Actuarial Climatic Index Model for Health Spending in North America
- Yawo M. Kobara, Abukari Alhassan and Ernest Zamanah, Macro Economic Indicators of Ghana Economy an ARIMAX model
- A comprehensive report on Jema-Nkwanta community
- EM algorithm with Coordinate descent Method. Application to Bayesian Lasso and Fused Lasso

## Teaching Experience

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- **Graduate Teaching Assistant**, (*Sept 2017 - In progress*), **Western University**, London, ON, Canada.
- **Online Teaching Assistant** (Oct 2021 - In progress), **WorldQuant University**, New Orleans, LA, USA.
- **Statistics for Engineers Course Instructor**, (*Jan 2020 - April 2020*), **Western University**, London, ON, Canada.
- **Teaching Assistant**, (*Sep 2015 - June 2016*), **University for Development Studies**, Tamale, Ghana.
- **Part Time Tutor**, (*Sep 2013 - June 2016*), **Standard High School**, Navrongo, Ghana.
- **Part Time Tutor**, (*Sep 2013 - June 2016*), **Lady of Seven Sorrows Catholic High School**, Navrongo, Ghana.

## Other Work Experience

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- **Founding Member and VP Academic**, (Sept 2019 - In progress), **Western Science Writing Club**, London, ON, Canada.
- **Graduate Career Profile Advisor**, (Sept 2019 - Aug 2020), **Western University**, London, ON, Canada.
- **Western Science Rendez-Vous Organizing Committee Member**, (May 2018-2019), **Western University**, London, ON, Canada. **Active Volunteer**, (Sept 2015 - Sept 2017), **Kids and Maths NGO**, Ghana, West Africa.
- **Intern**, (Apr 2013 - Aug 2013), **General des Assurances**, Ouagadougou, Burkina Faso.

## Conference Presentations

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- **Intensive Care Unit / Step Down Unit Length of Stay Decisions: A Queuing Game Approach**. CanQueue 2021, Oct 29-30, Montreal.
- **Comparing Two Patients' Flow Policies in a Congested Intensive Care Unit -Step Down Unit (ICU-SDU) system**. CORS 2021, June 7-10, Online.
- **Intensive Care Unit (ICU) -Step-down Unit (SDU) system: To Premature Step-down or Not?** CSSC 2021, June 5-6, 2021
- **Patient Flow policies in the ICU/SDU System** Strathmore International Mathematics Conference 2020, June 28-July 02, Online.
- **ICU Discharge Policy Under Down Stream Congestion**. CanQueue 2019, August 23 - 24, Toronto.

## Honors & Awards

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- **Western Graduate Research Scholarship** (2017-2021), **Western University**, London, ON, Canada.
- **Next Einstein Fellow Award** (2016-2017), **African Institute for Mathematical Sciences**, Mbour, Senegal.
- **Outstanding Students Award** (2015), **Prudential Life Insurance**, Accra, Ghana.

## Additional Information

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### Professional Affiliation

- Member Statistical Society of Canada (SSC)
- Member Canadian Operational Research society (CORS)
- Member Decision Sciences Institute (DSI)

### Analytical Software skills

- R for Statistical Computing
- Python programming language
- Wolfram Mathematica Software
- Simul8 Computer program
- Matlab
- SAS and SPSS

### Language skills

- French, speak, read and write fluently
- English, speak, read and write fluently

### Hobby

- Hiking
- Soccer