

SAMUEL EDET

PhD Student

RESEARCH PROFILE

Samuel Edet carries out research in innovation across global cities using patent and medical publication data. Specifically, he is interested in how cross-border collaborations are facilitated and the implication for firm's decision to locate R&D activities.

CONTACT DETAILS

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ACADEMIC BACKGROUND

Joint Doctorate Degree, 2017-2021

- PhD System Science, IMT School for Advanced Studies, Italy.
- PhD Business Economics, Katholieke University, Leuven, Belgium.

Masters Degree (Distinction), 2016-2017

- MSc Mathematical Sciences, University of Cape Town, South Africa.

Bachelors Degree (Distinction), 2010-2014

- BSc Mathematics, University of Ibadan, Nigeria.

KEY COURSES

Major Doctoral Courses:

- Microeconomics, Macroeconomics, Econometrics, Probability and Statistics,
- Stochastic process, Game theory, Complex system theory, Optimal control,
- Analytics in economics and management, Machine learning.

Major Masters Courses:

- Algebra, Differential equations, Geometry and Groups, Computational algebra,
- Data Analytics, Financial Mathematics, Bioinformatics, Numerical analysis,
- Analytical techniques in mathematical biology, Algebraic biology, Python.

WORK EXPERIENCE

Business Developer, Siemens, 2017

- Team lead for data analysis and research on bid process for power and gas projects.

Graduate Assistant, University of Ibadan, 2014-2016

- Graduate assistant in the department of Mathematics, assisted with teaching probability.

Data Analyst, Nigeria Institute for Social and Economic Research, 2013-2014

- Assisted senior researchers with data analysis, literature review etc.

ACADEMIC DISTINCTIONS

- Erasmus mobility scholarship (2018)
- Oxford summer school economic networks winning project (2018)
- Italian doctoral scholarship (2017)
- Mandela Rhodes foundation scholarship (2017)
- Nominee, Thomson Reuters Excellence award (2017)
- Social Science Research Network top 10% most downloaded paper (2017).
- African Institute for Mathematical Sciences scholarship (2016)
- University scholar award (2014)

CORE COMPETENCIES

Advance level technical skills:

- Python, QGIS, SQL, Microsoft OS, Gephi.

Intermediate level technical skills:

- STATA, R, Linux OS.
- Mathematical modelling.

Basic level technical skills:

- Java.

RESEARCH PAPER

- Edet, Samuel, Recurrent Neural Networks in Forecasting S&P 500 index. (July 12, 2017). Available at https://ssrn.com/abstract=3001046

Economics of AI Conference: Essay on Interest in AI

I am delighted to apply for the 2019 Economics of AI conference. Over the course of my academic study, I have had a keen research interest in machine learning as it applies to economics and finance. This has been made possible due to the interdisciplinary nature of my graduate studies. For example, during my master's program I took courses that spanned applied mathematics, statistics, finance and machine learning. My master's thesis was about the application of recurrent neural networks in financial market forecasting. This project was nominated in 2017 for the Thomson Reuters excellence award as one of the best student project in data science (paper from the thesis: https://ssrn.com/abstract=3001046).

Currently, the focus of my doctoral research is on networks of innovation across global cities. Although the empirical strategy for analysis are tools from econometrics and network science; the data extraction, cleaning and disambiguation of patent and publication requires tools in text analysis, clustering etc. In addition to this, I am collaborating externally on project that involves application of recurrent neural networks for analysis of human movement. This project is interesting because: spatio-temporal sequence of human actions is difficult to model, since latent factor such as intention, task, knowledge, intuition and preference determine the action choices of humans.

Recently, there has been a growing interest in the use of neural networks for causal inference and learning representation for counterfactual inference. This interest is consistent with future work of my research. For example, I would want to know what happens to European cross border patent collaboration/co-authorship if the focal country is not US or if it is completely randomized. I do believe that the economics of AI conference will be a platform to meet with researchers working in this area.