SHAKEEL GAVIOLI-AKILAGUN

Academic Employment

2023 -Fellow in Statistics

London School of Economics

Economics and Statistics

University of Hong Kong (exchange year)

Teaching postgraduate courses on distributed computing, data management, and graph representation learning. Carrying out research on change point analysis under the guidance of Dr. Yining Chen and Prof. Qiwei Yao.

EDUCATION

2019-23	PhD in Statistics London School of Economics Thesis: On Inference and Causality in Change Point Regressions
2018-19	MSc in Statistics by Research London School of Economics (Distinction) Thesis: Screening High Dimensional Time Series via Tilting
2014-17	BSc in Economics and Econometrics University of York (First Class)

RESEARCH

2015-16

Publications & Pre-Prints

Fast and Optimal Inference for Change Points in Piecewise Polynomials via Differencing (with P. Fryzlewicz) Under review at Electronic Journal of Statistics, 2024+

Invited discussion of "Automatic Change-Point Detection in Time Series via Deep Learning" by Li, Fearnhead, Fryzlewicz, and Wang, Journal of the Royal Statistical Society Series B: Statistical Methodology, 2023

Robust Inference for Change Points in Piecewise Polynomials using Confidence Sets (with P. Fryzlewicz) Ready for submission to Technometrics, 2024+

Recovering Causal Structures in Change Point Regressions via Hawkes Process Representation (with P. Fryzlewicz) Manuscript in preparation, 2023+

Ongoing projects

Detecting Changes in Production Frontiers (with Y. Chen) Work in progress, 2024+

Online Detection of Changes in Mean Reverting Processes with Local Cointergration (with Q. Yao, B. Dou, and S. Tiwari,) Work in progress, 2024+

SEMINARS & CONFERENCES

- Spring HiTEc meeting on Complex Data in Econometrics and Statistics, Cyprus (invited); LSE Statistics Research Showcase, London (participant with joint work presented by Y. Chen); Statistical Modeling with Applications, Belgrade (invited)
- 2023 16th International Conference on Computational and Methodological Statistics, Berlin (invited); 6th International Conference on Econometrics and Statistics, Tokyo (invited, declined), Charles University Advanced Statistics Seminars, Prague (invited); Paris-Saclay Change-Point Workshop, Paris (invited)
- 2022 StatScale Early Careers Researchers Meeting, Brighton (invited), American Statistical Association Joint Statistical Meetings, Washington DC (contributed); International Conference on Robust Statistics, University of Waterloo (contributed, with travel award); Institute of Mathematical Statistics Annual Meeting, London (contributed)
- 2021 14th Conference on Computational and Methodological Statistics, London (contributed)

Teaching

Current teaching

- ST445: Managing and Visualising Data
- ST446: Distributed Computing for Big Data
- ST457: Graph Data Analytics and Representation Learning

Past Teaching

- ST304: Time Series and Forecasting (2019, 2020, 2021)
- ST310: Machine Learning (2020, 2021)
- ST226: Actuarial Investigations, Financial (2022, 2023)
- ST227: Survival Models (2022, 2023)

Mentoring

- Departmental mentor to undergraduate Statistics students (2024)
- Undergraduate Statistics Practitioner's Challenge (2019, 2020, 2024)
- MSc Dissertations Quantitative Methods Advisor (2019)

INDUSTRY EXPERIENCE

2019	Data Science Intern Competition and Markets Authority
2018	Summer Research Scholar York Cross-disciplinary Centre for Systems Analysis
2018	Economics Intern Competition and Markets Authority
2017	Policy Research Intern Center for the Study of Democracy
2016	Statistical Research Intern Institute for Integrated Development Studies

SCHOLARSHIPS & AWARDS

ACADEMIC AWARDS

2023	Postgraduate Travel Award London School of Economics
2022	Travel Award, International Conference on Robust Statistics University of Waterloo
2018	ESRC Studentship, MSc & PhD (1+3) pathway London School of Economics
2016	Achieving Excellence Bursary University of York
2017	National Scholarship Program at York University of York

TEACHING AWARDS

2021 Class Teacher Award

London School of Economics 'Highly Commended' for teaching in ST304 seminars.

Additional Information

Journal Reviews

Computational Statistics and Data Analysis, Journal of Business and Economic Statistics, IEE Transactions on Information Theory

TECHNICAL SKILL

Programming: R, Python, Spark, C++, Hadoop, Kafka

Markup languages: LATEX, HTML, CSS

Human languages: English (native), Italian (native), French (conversational)

EXTRA CURRICULARS

I help organize a lively discussion group for PhD students in the Statistics department at the London School of Economics; see here. I am also an active member of Mwangaza, the Black PhD student network at my university; see here.