

# SHAKEEL GAVIOLI-AKILAGUN

✉ s.a.gavioli-akilagun@lse.ac.uk    🌐 gaviolsha.xyz    🐙 github.com/gaviolsha

## EDUCATION

---

2019-23	<b>PhD in Statistics</b> <i>London School of Economics</i>
2018-19	<b>MSc in Statistics by Research</b> <i>London School of Economics (Distinction)</i>
2014-17	<b>BSc in Economics and Econometrics</b> <i>University of York (First Class)</i>
2015-16	<b>Economics and Statistics</b> <i>University of Hong Kong (exchange year)</i>

## PUBLICATIONS & PRE-PRINTS

---

Fast and Optimal Inference for Change Points in Piecewise Polynomials via Differencing (with P. Fryzlewicz) *Under revision 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*, 2023+

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

## WORKS IN PROGRESS

---

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

Online Detection of Changes in Mean Reverting Processes with Local Cointegration (with Q. Yoa, B. Dou, and S. Tiwar), 2024+

## SEMINARS & CONFERENCES

---

2024	Spring HiTEc meeting on Complex Data in Econometrics and Statistics, Cyprus (invited), LSE Statistics Research Showcase, London (participant with presentation by Y.Chen)
------	---

- |      |  |
|------|--|
| 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 | <b>Data Science Intern</b><br><i>Competition and Markets Authority</i>                       |
| 2018 | <b>Summer Research Scholar</b><br><i>York Cross-disciplinary Centre for Systems Analysis</i> |
| 2018 | <b>Economics Intern</b><br><i>Competition and Markets Authority</i>                          |

- |      |   |
|------|---|
| 2017 | <b>Policy Research Intern</b><br><i>Center for the Study of Democracy</i>                 |
| 2016 | <b>Statistical Research Intern</b><br><i>Institute for Integrated Development Studies</i> |

## SCHOLARSHIPS & AWARDS

---

### ACADEMIC AWARDS

- |      |   |
|------|---|
| 2023 | <b>Postgraduate Travel Award</b><br><i>London School of Economics</i>                               |
| 2022 | <b>Travel Award, International Conference on Robust Statistics</b><br><i>University of Waterloo</i> |
| 2018 | <b>ESRC Studentship, MSc &amp; PhD (1+3) pathway</b><br><i>London School of Economics</i>           |
| 2016 | <b>Achieving Excellence Bursary</b><br><i>University of York</i>                                    |
| 2017 | <b>National Scholarship Program at York</b><br><i>University of York</i>                            |

### TEACHING AWARDS

- |      |   |
|------|---|
| 2023 | <b>Class Teacher Award</b><br><i>London School of Economics</i><br>'Highly Commended' for teaching in ST304 seminars. |
| 2021 | <b>Class Teacher Award</b><br><i>London School of Economics</i><br>'Highly Commended' for teaching in ST304 seminars. |

## ADDITIONAL INFORMATION

---

### PROFESSIONAL SERVICE

Referee for: Journal of the Royal Statistical Society Series B, Computational Statistics and Data Analysis, Journal of Business and Economic Statistics, IEE Transactions on Information Theory, Journal of Statistical Software

### TECHNICAL SKILL

Programming languages: R, Python, C++

Markup languages: L<sup>A</sup>T<sub>E</sub>X, 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](#). In summer 2024 I helped organized a discussion group in which we studied David Pollard's course 'Inequalities for probability and statistics'; see [here](#).