

Jie LI

CONTACT INFORMATION	Department of Statistics School of Mathematics, Statistics and Actuarial Science University of Kent, Canterbury, CT2 7NZ jl725@kent.ac.uk	
WORKING EXPERIENCE	Neuroimaging Data Analyst KTP Associate employed by University of Kent and Innovision IP Limited Research Officer (with Professor Piotr Fryzlewicz) Department of Statistics, London School of Economics and Political Science Research Assistant (with Professor Shujun Li) School of Computing, University of Kent	Oct. 2023 – Oct. 2021 – Sept. 2023 Aug. 2021 – Sep. 2021
EDUCATION	School of Mathematics, Statistics and Actuarial Science, University of Kent, Canterbury, United Kingdom Ph.D., Statistics , awarded in September 2021 <ul style="list-style-type: none">Thesis Title: <i>Statistical Inference for High-dimensional Nonparametric Models</i>Supervisors: Professor Jian Zhang and Dr. Alfred Kume	
RESEARCH INTERESTS	Change-point detection; Machine learning; Artificial Intelligence; Reinforcement learning; Causal inference; Nonparametric inference; High dimensional inference; Functional data analysis; Neuroscience	
FULL PUBLICATION LIST	Published/Accepted Journal Publications: <ul style="list-style-type: none">[1] Li, Jie, Fearnhead, Paul, Fryzlewicz, Piotr, and Wang, Tengyao. 2024a. “Authors reply to the Discussion of Automatic Change-Point Detection in Time Series via Deep Learning at the Discussion Meeting on Probabilistic and statistical aspects of machine learning”. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i>, pp. 1–4. ISSN: 1369-7412. DOI: 10.1093/jrsssb/qkae008. URL: https://doi.org/10.1093/jrsssb/qkae008.[2] Li, Jie, Fearnhead, Paul, Fryzlewicz, Piotr, and Wang, Tengyao. 2024b. “Automatic Change-Point Detection in Time Series via Deep Learning”. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i>, pp. 1–17. ISSN: 1369-7412. DOI: 10.1093/jrsssb/qkae004. URL: https://doi.org/10.1093/jrsssb/qkae004.[3] Zhang, Jian and Li, Jie. June 1, 2022. “Factorized Estimation of High-dimensional Nonparametric Covariance Models”. <i>Scandinavian Journal of Statistics</i> 26, pp. 542–567. DOI: 10.1111/sjos.12529.[4] Tang, Nian-Sheng, Li, Hui-Qiong, Tang, Man-Lai, and Li, Jie. Mar. 3, 2016. “Confidence Interval Construction for the Difference between Two Correlated Proportions with Missing Observations”. <i>Journal of Biopharmaceutical Statistics</i> 26.2, pp. 323–338. DOI: 10.1080/10543406.2014.1000544.	
TEACHING TRAINING	<ul style="list-style-type: none">I have completed the Associate Fellowship Scheme (AFS) which is for Graduate Teaching Assistants (GTAs) in receipt of a Vice Chancellor Scholarship. It includes two 15-credit core modules: <i>An Introduction to Learning, Teaching and the Academic Environment</i> (UN819) and <i>Contextualising Higher Education Teaching and Learning</i> (UN831).	

- I have achieved the status of Associate Fellow (AFHEA, fellowship reference: PR224926) in 21/07/2021.

SOFTWARE AND Computer Programming:

- LANGUAGE SKILLS
- Proficient in data analysis using **Python**, **R**, **MATLAB**. For example,
 - **Python** package *AutoCPD* for automatic change-point detection via deep neural network based on **TensorFlow**.
 - **Python** package *skewt-scipy* for skew student t distribution.
 - **R** package: *lfdR* for my Ph.D. thesis
 - Intermediate in C++, L^AT_EX, Git, Linux, Microsoft Office, SQL
 - Parallel scientific computation in High Performance Cluster using 1920 CPU cores and 4x NVidia A100 GPU/Compute Cards.
 - Real Big Data Analysis: Human brain source localization based on the neuroscience dataset (200+Gb).

PROFESSIONAL MEMBERSHIP

- Royal Statistical Society (RSS)
- International Chinese Statistical Association (ICSA)

INTERPERSONAL SKILLS

- Problem-solving.
- Team-work.
- Time and task Management.
- Hard-working, responsible.
- Conflict management and resolution skills

PRESENTATIONS

Invited Talk

- Automatic Change-Point Detection in Time Series via Deep Learning, RSS Discussion meeting, Harrogate, UK. 6th Sept. 2023
- The 10th ICSA International Conference on Global Growth of Modern Statistics in the 21st Century, Shanghai Jiao Tong University, Shanghai, China Dec. 2016

Contributed Talk

- Automatic Change-Point Detection in Time Series via Deep Learning, CMStatistics conference in Berlin, 18 Dec. 2023.
- Automatic Change-Point Detection in Time Series via Deep Learning. The 1st Joint Conference on Statistics and Data Science, Beijing, China. 13 July. 2023
- Factorized estimation of high-dimensional nonparametric covariance models. 2022 IMS Annal Meeting: Probability and Statistics, London 29 Jun. 2022

WEBSITES

- GitHub: <https://github.com/Jieli12>
- Academic Homepage: <https://jieli12.github.io>
- Google Scholar: <https://scholar.google.com/citations?user=sOhkmd8AAAAJ&hl=en>
- Research Gate: <https://www.researchgate.net/profile/Jie-Li-271>
- LinkedIn: <https://www.linkedin.com/in/jie-li-01aa84211/>
- ORCID : 0000-0001-8353-1322