Jie LI, Ph.D in Statistics

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 Ltd.	Oct. 2023 – ♥ London, UK						
	Research Officer (with Professor Piotr Fryzlewicz)	Oct. $2021 - Sept. 2023$						
	London School of Economics and Political Science	${\pmb \Diamond}$ London, UK						
	Research Assistant (with Professor Shujun Li)	Aug. 2021 – Sep. 2021						
	University of Kent	♥ Canterbury, UK						
	Lecturer in Statistics	Dec. $2014 - Sep. 2017$						
	Dali University	Q Dali, China						
	Assistant Professor in Statistics	Aug. 2012 – Nov. 2014						
	School of Mathematics and Computer Science, Dali University	♥ Dali, China						
Education	School of Mathematics, Statistics and Actuarial Science, University of Kent, Canterbury, United Kingdom							
	Ph.D., Statistics, awarded in September 2021							
	 Thesis Title: Statistical Inference for High-dimensional Nonparametric Models Supervisors: Professor Jian Zhang and Dr. Alfred Kume 							
	Yunnan University, Kunming, China							
	M.S., Probability and Mathematical Statistics, July 2012							
	 Thesis Title: Equivalence Tests and Confidence Interval Construction of Risk Difference for An Incomplete Matched-pair Design Supervisor: Professor Niansheng Tang 							
	Yunnan University, Kunming, China							
	B.S., Statistics, July 2009							
Research Interests	Change-point detection in time series; Machine learning; Artificial Intelligence; Reinforcement learning; Causal inference; Nonparametric inference; High dimensional inference; Path Signature; Neuroscience; Portfolio analysis.							
Full Publication List	Under Review:							
	[1] Li, Jie, Green, Gary, Carr, Sarah, Liu, Peng, and Zhang, J Inference General Procedures for A Single-subject Test S	lian. 2024 . "The Bayesian tudy". <i>Under Revision</i> .						

Published/Accepted Journal Publications:

- [2] 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". Journal of the Royal Statistical Society Series B: Statistical Methodology, pp. 1–4. ISSN: 1369-7412. DOI: 10.1093/jrsssb/qkae008.
- Li, Jie, Fearnhead, Paul, Fryzlewicz, Piotr, and Wang, Tengyao. 2024b. "Automatic Change-Point Detection in Time Series via Deep Learning (with discussions)". *Journal of the Royal Statistical Society Series B: Statistical Methodology*, pp. 1–17. ISSN: 1369-7412. DOI: 10.1093/jrssb/qkae004.
- [4] Zhang, Jian and Li, Jie. June 1, 2022. "Factorized Estimation of High-dimensional Nonparametric Covariance Models". Scandinavian Journal of Statistics 26, pp. 542–567. DOI: 10.1111/sjos.12529.
- [5] 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". *Journal of Biopharmaceutical Statistics* 26.2, pp. 323–338.
 DOI: 10.1080/10543406.2014.1000544.

SOFTWARE AND Computer Programming:

Language Skills	•	Proficient in	data	analysis	using	Pvthon	R .	For	exampl	le.
LANGUAGE SKILLS	•	I TOHCIEHU III	uata	anarysis	using	I yunun	, Ι υ.	TOT.	слашр	Ľ

- Python package *BIGPAST* for Bayesian Inference General Procedures for A Single-subject Test Study.
- Python package *AutoCPD* for Automatic Change-point Detection via Deep Neural Network based on TensorFlow.
- **Python** package *skewt-scipy* for skewed student *t* distribution.
- \mathbf{R} package: *llfdr* for my Ph.D. thesis
- Intermediate in C++, LATEX, 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 (3.5 TB).

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
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