

Lizhong Chen

Contact Information

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Address: 1G, Royal Parade, Parkville VIC 3052

Research interests

Bioinformatics: limma, edgeR; Model selection; Model averaging; Dimension reduction; High dimensional data.

Employment

03/2022 - **Walter and Eliza Hall Institute of Medical Research (WEHI)**
Present Research Officer at the Bioinformatics Division
Supervisor: Prof. Gordon K Smyth

Education

02/2017 - **The University of Melbourne**
02/2022 Doctor of Philosophy (PhD) in Statistics
Supervisors: A/Prof. Guoqi Qian, Prof. Yuriy Kuleshov, Dr Tingjin Chu
Thesis: Model selection and averaging by Gibbs sampler with a tropical cyclone seasonal forecasting application

09/2013 - **Peking University**
07/2016 Master of Science (M.S.) in Mathematics
Mentor: Prof. Houhong Fan

09/2009 - **Peking University**
06/2013 Bachelor of Science (B.S.) in Mathematics
Mentor: Prof. Houhong Fan

Honors and scholarships

2017 Melbourne Research Scholarship (The University of Melbourne).

- 2016 Outstanding Graduate in Peking University, and Beijing
- 2015 Guanghua Scholarship (Peking University)
- 2014 National Scholarship (Peking University)

Publications

Variable selection in high dimensional data using Gibbs sampler
with Guoqi Qian, in preprint.

Model averaging in high dimensional data via Gibbs sampler
with Guoqi Qian, in preprint.

Variable selection via ridge estimate using a hybrid Gibbs sampler
with Guoqi Qian, in prepare.

Improving the seasonal tropical cyclone forecast in Australian and south Pacific ocean regions by model selection and model averaging methods based on Gibbs sampling
with Guoqi Qian, Yuriy Kuleshov, in preprint.

A sliced inverse regression approach to the tropical cyclone seasonal forecasting
with Guoqi Qian, Yuriy Kuleshov, in prepare.

Teaching experience

- 07/2017 - **Tutor, The University of Melbourne**
02/2022 Linear Algebra, Accelerated Mathematics I/II, Complex Analysis, Multivariate Statistical Techniques
- 07/2018 - **Assignment and Exam Marker, The University of Melbourne**
07/2021 Statistical Modelling, Mathematical statistics,
- 09/2013 - **Teaching assistant, Peking University**
07/2016 Mathematical analysis I/II, Calculus I, Advanced algebra I.

Technical skills

Programming languages

Proficient in: R language

Familiar with: Python

R Package: IBGS(Iterated Blockwise Gibbs Sampler)
<https://github.com/Kaukol/IBGS>