Lizhong Chen

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Research interests

Model selection, Model averaging, Dimension reduction, High dimensional data.

Education

2017 – Present **The University of Melbourne**
PhD in Statistics
Supervisors: A/Prof. Guoqi Qian, Prof. Yuriy Kuleshov, Dr Tingjin Chu
Thesis: Model selection and model averaging using Gibbs sampler with application to tropical cyclone forecast

2013 – 2016 **Peking University**
MA in Mathematics
Mentor: A/Prof. Houhong Fan

2009 – 2013 **Peking University**
BA in Mathematics
Mentor: A/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.

Improving the seasonal tropical cyclone forecast in southwestern Indian ocean regions using a restricted Gibbs sampler
with Guoqi Qian, Yuriy Kuleshov, in preprint.

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

Teaching experience

07/2017 - Present **Tutor, The University of Melbourne**
Linear Algebra, Accelerated Mathematics I/II, Complex Analysis, Multivariate Statistical Techniques

07/2018 - 07/2021 **Assignment and Exam Marker, The University of Melbourne**
Statistical Modelling, Mathematical statistics,

09/2013 - 07/2016 **Teaching assistant, Peking University**
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`