

MIAOSHIQI LIU

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PROFESSIONAL SUMMARY

Miaoshiqi LIU is a new Ph.D. student in the Department of Statistical Sciences at the University of Toronto. In 2019, she earned the bachelor's degree in Tsinghua University, Beijing, China. Her research interests include Mathematical Statistics, Nonparametric Estimation, Spatial Statistics, and Statistical Machine learning. She also has diverse interests in multi-discipline research between Statistics and other fields, such as Bioinformatics, Ecology, Finance and Social Science.

EDUCATION

Expected in 07/2024 **Ph.D.: Statistical Science**

University of Toronto - Toronto, ON

Bachelor of Science: Mathematical Science

Tsinghua University - Beijing, China

- GRE: Verbal 159/170, Quantitative 170/170, Analytical Writing 4.5/6
- TOEFL iBT: 108/120 (R28, L26, S27, W27)

WORK HISTORY

02/2019 to 06/2019 **Undergraduate Thesis**

Lijian Yang, Ying Yang – Beijing, China

- Performed Literature Review on varying coefficient model, including the parameter estimation methods and hypothesis testing approaches
- Performed Literature Review on gene-environment interaction, summarizing the significance of this terminology
- Conducted simulation to assess different estimation methods of varying coefficient model, and compared goodness-of-fit between varying coefficient model, simple linear model and linear model with interaction
- Completed thesis of varying coefficient model for gene-environment interaction

07/2018 to 09/2018 **Summer Intern**

Xuming He, Yang Chen – Ann Arbor, Michigan

- Independently established a research project investigating the association between ICU patients' social visits and survival, an under-explored field in medical data
- Procedures: Information Extraction, Sentiment Analysis, Logit Regression, Causal Inference
- Conclusion: According to logistic regression, positive social visits are correlated with higher in-hospital mortality, but after using PSM between the two groups, it turns out that whether the social visits are positive or not does not clearly influence the in-hospital mortality

SKILLS

- Language: Mandarin(native), English(fluent), Japanese(Intermediate)
- Programming: R, Matlab, C++, SQL, Python, LaTeX

HOBBIES

- Singing (being an Alto in Tsinghua Chorus)
- Table Tennis
- Cooking