

Yang Liu 刘阳

Curriculum Vitae

✉ yangliu1214@hkbu.edu.hk
🌐 enderlogic.github.io
🔗 [Enderlogic](#)



Employment experience

2024 **Senior research assistant in AI to single cell transcriptomics**
Hong Kong Baptist University, China

Educational Background

2019–2023 **PhD in Bayesian network structure learning**
Queen Mary, University of London, UK

2017–2018 **MSc in Artificial Intelligence**
University of Edinburgh, UK
Thesis: Posterior predictive check on Gaussian process

2013–2017 **BSc in Optoelectronic Information Engineering**
Beihang University, China

Publications

- 2023 **Yang Liu** and Anthony Constantinou. Improving the imputation of missing data with markov blanket discovery. In *International Conference on Learning Representations*, 2023.
- Neville Kenneth Kitson, Anthony C Constantinou, Zhigao Guo, **Yang Liu**, and Kiattikun Chobtham. A survey of bayesian network structure learning. *Artificial Intelligence Review*, pages 1–94. Springer, 2023.
- Anthony Constantinou, Neville K Kitson, **Yang Liu**, Kiattikun Chobtham, Ar-ian Hashemzadeh Amirkhizi, Prahars A Nanavati, Rendani Mbuvha, and Bruno Petrunaro. Open problems in causal structure learning: A case study of covid-19 in the uk. *Expert Systems with Applications*, page 121069. Elsevier, 2023.
- 2022 **Yang Liu**, Anthony C Constantinou, and Zhigao Guo. Improving bayesian network structure learning in the presence of measurement error. *Journal of Machine Learning Research*, volume 23, pages 1–28, 2022.
- Yang Liu** and Anthony C Constantinou. Greedy structure learning from data that contain systematic missing values. *Machine Learning*, volume 111, pages 3867–3896. Springer US, 2022.

Aiqi Jiang, Xiaohan Yang, **Yang Liu**, and Arkaitz Zubiaga. Swsr: A chinese dataset and lexicon for online sexism detection. *Online Social Networks and Media*, volume 27, page 100182. Elsevier, 2022.

Anthony C Constantinou, **Yang Liu**, Neville K Kitson, Kiattikun Chobtham, and Zhigao Guo. Effective and efficient structure learning with pruning and model averaging strategies. *International Journal of Approximate Reasoning*, volume 151, pages 292–321. Elsevier, 2022.

2021 Anthony C Constantinou, **Yang Liu**, Kiattikun Chobtham, Zhigao Guo, and Neville K Kitson. Large-scale empirical validation of bayesian network structure learning algorithms with noisy data. *International Journal of Approximate Reasoning*, volume 131, pages 151–188. Elsevier, 2021.

2020 Anthony C Constantinou, **Yang Liu**, Kiattikun Chobtham, Zhigao Guo, and Neville K Kitson. The bayesys data and bayesian network repository. *Queen Mary University of London: London, UK*, 2020.

Teaching experience

- Demonstrator**
- Bayesian Decision and Risk Analysis, 2020 - 2023
 - Data Analytics, 2022 - 2023

Skills

- R/Matlab/Python
- Pytorch programming experience