Jen Ning Lim

Ph.D. Student
University of Warwick

jl.jenning@gmail.com
http://jenninglim.github.io/
+447947510392

Education

Ph.D. Statistics, University of Warwick. Supervisor: Adam M. Johansen. 2021-2025

M.Sc. Machine Learning and Data Science, University College London. *Distinction*. 2019-2020

B.Sc. (Hon.) Mathematics and Computer Science, University of Bristol. *First Class*. 2015–2018

Employment

Applied Scientist II Intern June 2024 – Oct 2024
Amazon
Developed techniques for cross-price elasticity estimation using causal generative modelling methods.

Data Science for Social Good Fellow June 2020 – Sept 2020
Alan Turing Institute
Developed predictive models to detect future underachieving schools.

Research Intern July 2019 – Sept 2019
Kyoto University (Supervisor: Makoto Yamada)
Developed novel algorithms for feature selection using post-selection inference.

Research Intern Jan 2019 – May 2019
Max Planck Institute for Intelligent Systems (Supervisors: Wittawat Jitkrittum, Bernhard Schölkopf)
Developed novel algorithms for comparing different generative and probabilistic models.

Publications

1. **J. N. Lim** and A. M. Johansen. Particle semi-implicit variational inference. In *Neural Information Processing Systems (NeurIPS)*, 2024. (**Spotlight**).
2. **J. N. Lim**, J. Kuntz, S. Power, and A. M. Johansen. Momentum particle maximum likelihood. In *International Conference on Machine Learning (ICML)*, 2024.
3. J. Kuntz, **J. N. Lim**, and A. M. Johansen. Particle algorithms for maximum likelihood training of latent variable models. In *International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2023. (**Oral**).
4. T. Schröder, Z. Ou, **J. N. Lim**, Y. Li, S. Vollmer, and A. Duncan. Energy discrepancies: a score-independent loss for energy-based models. In *Neural Information Processing Systems (NeurIPS)*, 2023.

5. **J. N. Lim**, S. Vollmer, L. Wolf, and A. Duncan. Energy-based models for functional data using path measure tilting. In *International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2023.
6. **J. N. Lim**, M. Yamada, W. Jitkrittum, Y. Terada, S. Matsui, and H. Shimodaira. More powerful selective kernel tests for feature selection. In *International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2020.
7. **J. N. Lim**, M. Yamada, B. Schölkopf, and W. Jitkrittum. Kernel Stein tests for multiple model comparison. *Neural information processing systems (NeurIPS)*, 2019.

Awards

Feuer Scholarship for Artificial Intelligence (tuition + stipend). 2021 – 2025

Bloomberg Prize: Best Machine Learning Project. 2018

Netcraft Prize: Top 10 Computer Scientists. 2017

Engineering Skills

Programming Languages: Python, C++, Bash.

Libraries and Frameworks: NumPy, JAX Ecosystem, PyTorch, TensorFlow, SciPy, Pandas, scikit-learn, matplotlib (to name a few).

Other skills: Git, AWS Ecosystem (S3, SageMaker), SQL, Apache Spark.