Xing Liu

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EDUCATION

- **Imperial College London** — London, UK
  Doctor of Philosophy; Statistics (CDT in StatML at Imperial and Oxford) — *Oct 2020 – Sep 2024*
  - Funded by the Imperial College President's PhD Scholarship.
  - Alan Turing Enrichment Award (2023)

- **University of Cambridge** — Cambridge, UK
  Master of Advanced Study (Part III); Mathematical Statistics; Grade: 96.1% *(Pass)* — *Oct 2019 – Jul 2020*
  - Part III essay: *Approximate Bayesian Computation with Optimal Transport*

- **Imperial College London** — London, UK
  Bachelor of Science; Mathematics with Statistics; 1st Class Honours (Top 5% in cohort). — *Oct 2016 – Jul 2019*
  - Hyman Levy Memorial Prize, 2019 (awarded to one final year student of Mathematics for excellence in Statistics).
  - G-Research Ltd Prize, 2018 (awarded to students of Mathematics for academic excellence).
  - Faculty of Natural Sciences Dean's List, 2017, 2018 and 2019.

SELECTED PUBLICATIONS

- **X Liu**, A Duncan, A Gandy (2023). *Using Perturbation to Improve Goodness-of-Fit Tests based on Kernelized Stein Discrepancy.* ICML 2023.
- **X Liu**, H Zhu, J-F Ton, G Wynne, A Duncan (2022). *Grassmann Stein Variational Gradient Descent.* AISTATS 2022.

RESEARCH EXPERIENCE

- **Approximate Bayesian Computation with Optimal Transport** — Cambridge, UK
  Part III Essay; advised by Dr. Sergio Bacallado. — *Feb 2020 – May 2020*
  - Approximate Bayesian Computation (ABC), Optimal Transport, Maximum Mean Discrepancy, KL-Divergence.
- **Predicting Sepsis at Triage** — Toronto, Canada
  Summer Research Programme; supervised by Dr Anna Goldenberg and Mr Erik Drysdale. — *Jul 2019 – Aug 2019*
  - Natural Language Processing, BERT, medical triage; in collaboration with the SickKids Hospital, Toronto, Canada.

INTERNSHIP EXPERIENCE

- **Meta** — London, UK
  Research Scientist Intern — *Jun 2022 – Sep 2022*
  - Worked on multi-task active learning for improving ads ranking models.
- **JPMorgan Chase & Co.** — London, UK
  Off-Cycle Intern in Quantitative Research and AI & Machine Learning Programme — *Jul 2020 – Oct 2020*
  - Worked on discriminant analysis of equities data and liquidity analysis of fixed income using Random Forest.

EXTRACURRICULAR ACTIVITIES

- **Bridges for Enterprise** — Cambridge, UK
  Mentor and Global Analytics and Algorithm Manager — *Dec 2020 – Present*
  - Led student teams and worked on MLOps (using MLflow and Microsoft Azure) and Natural Language Processing.
- **Imperial Mathematics Competition Committee** — London, UK
  Co-Founder and Senior Event Coordinator — *May 2017 – May 2019*
  - Led the publicity team and established partnerships with Maths societies from 11 UK universities within a month.

SKILLS AND COMPETENCIES

- **Languages**: Chinese Mandarin (Native); English (Professional); French (Basic).
- **Programming**: R, Python, PyTorch, TensorFlow, MATLAB (Proficient); Unix, MLflow (Intermediate); C++ (Elementary).