

Mengqi Chen

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EDUCATION

University of Warwick

Coventry, United Kingdom

- **PhD: Statistics**
 - Organiser of the Warwick Machine Learning Group reading groups.

10/2023 – 10/2027

University of Cambridge

Cambridge, United Kingdom

- **MMath, BA: Mathematics**
 - Full scholarship (approximately £170k) awarded by the Jardine Foundation for the duration of the degree.
 - Master's essay titled "Theory and Applications of Maximum Mean Discrepancy".

10/2019 – 06/2023

PUBLICATIONS

- M. Chen, T. B. Berrett, T. Damoulas, M. Caprio. *Bulk-Calibrated Credal Ambiguity Sets: Fast, Tractable Decision Making under Out-of-Sample Contamination*. ICML 2026 (**Spotlight**, top 2.2% of all submitted papers)
- M. Caprio, M. Chen. *Imprecise Markov Semigroups and their Ergodicity*. ESAIM: P&S 2026 (To appear)
- M. Chen, C. Dellaporta, T. B. Berrett, T. Damoulas. *Total Robustness in Bayesian Nonlinear Regression for Measurement Error Problems under Model Misspecification*. arXiv Preprint 2025 (Under review)

PRESENTATIONS

University of Oxford | OxCSML Seminar Talk

06/2026

- Invited talk on *Bulk-Calibrated Credal Ambiguity Sets: Fast, Tractable Decision Making under Out-of-Sample Contamination*.

University College London | Fundamentals of Statistical Machine Learning group meetings

03/2026

- Invited talk on *Bulk-Calibrated Credal Ambiguity Sets: Fast, Tractable Decision Making under Out-of-Sample Contamination*.

University of Manchester | AI Fundamentals Research Forum

10/2025

- Invited talk on *Total Robustness in Bayesian Nonlinear Regression for Measurement Error Problems under Model Misspecification*

PROFESSIONAL EXPERIENCE

Department of Statistics, University of Warwick

Coventry, United Kingdom

- *Senior Graduate Teaching Assistant*
 - Tutoring and marking for first year courses *Introduction to Statistical Modelling*, *Statistical Laboratory*.
 - Marking for master's course *Statistical Learning and Big Data*.

01/2024 – present

Oxehealth, now LIO

Oxford, United Kingdom

- *Research Intern*
 - Evaluated algorithm performance with accuracy statistics and unsupervised machine learning.
 - Utilised machine learning tools to identify changes in time series data, achieving 81% precision and 98% recall.
 - Developed algorithms to process video data with Python, which sped up ground-truthing by 400%.
 - Visualised and analysed data from cloud-based warehouse to understand customer behaviour.

06/2022 – 09/2022

Silvaco Europe LTD

St. Ives, Cambridgeshire, United Kingdom

- *Research and Technology Intern*
 - Examined and updated the software using C++ by adding distribution parser and ion sampler to the system.
 - Tested the sampling model with different statistical methods including GoF test, KS test, etc.
 - Conducted literature review and ran MCMC simulations to investigate ion implantation.
 - Modelled using MATLAB and C++ the depth profiles of high-energy ion implantation with numerical methods.

06/2021 – 08/2021

Harvard Summit for Young Leaders in China (HSYLC)

Remote

- *Core Lecturer*
 - Lectured class of 50 students regarding RSA encoding and related number theory topics.

08/2020

SKILLS & INTERESTS

- **Programming:** Python (experience with Gurobi, MOSEK, JAX, PyTorch), R, C++, MATLAB; familiar with Git and Linux.
- **Interests:** Board games, singing, knitting, origami.