Kai Zhi TEH

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Education

PhD Statistical Science - University College London 2022-

Working on graphical causal inference.

MEng Engineering Science - St Peter's College, University of Oxford 2017-2021

First class classification.

2020-2021	Computer Vision, Machine Learning, Optimisation, Systems Control and Dynamics. 4th Year Research Project Graph Compression
2019-2020	Control Systems, Signal Processing, Software Engineering, Bio-mechanics and Bio-medical. 3rd Year Group Project Advanced Photonics Manufacturing Platform (adaptive optical confocal microscopy)

Experience

University College London, UK Feb 2022-
Postgraduate Teaching Assistant

Conducting undergraduate tutorials, demonstrations and marking exercises.

Modules include : STAT0002(Introduction to Probability and Statistics)
STAT0007(Stochastic Processes)
BIOS0019 (Life Sciences Foundation)

Dell-Oxford Artificial Intelligence Society Summer Project Jul 2021

Implementing reinforcement learning approaches to Dell business cases of selling technology as a service, particularly product-seller interaction.

Collaborated with business team of the project to produce business analytics of the project.

St Peter's College, University of Oxford, UK Feb 2020
Open Day Student Outreach Helper

Guiding A-Levels students around campus, and answering questions about life in University.

SingHealth Duke-NUS Institute of Precision Medicine, Singapore Jul-Aug 2019
Research Intern

Implementing LD Pruning on genotype samples.

Expanding upon previous year's work by verifying a recent correlation study between SNP (Single Nucleotide Polymorphism) and telomere length amongst Singaporean Chinese.

Oxford Thermofluids Institute, University of Oxford, UK Sep 2018
Software Intern

Fixing crash and reboot issues on engine temperature data measurement software.

Learning the practicalities of serial data communication through Python.

SingHealth Duke-NUS Institute of Precision Medicine, Singapore Jul-Aug 2018
Research Intern

Implementing LMM (Linear Mixed Modelling) on genotype data on phenotype traits.

Implementing statistical tests (KS-Tests) on correlation data to be compared to previous studies.

Publications

Published

Teh, K.Z., Sadeghi, K. & Soo, T. Localised natural causal learning algorithms for weak consistency conditions. In: Proceedings of the 40th Conference on Uncertainty in Artificial Intelligence, to appear. arXiv.2402.14775, 2024.

PrePrints/Work in Progress

Teh, K.Z., Sadeghi, K. & Soo, T. A General Framewok for Constraint-based Causal Learning, submittted for review. arXiv:2408.07575, 2024.

Presentations

Posters

Jul 2024	Localised Natural Causal Learning under weak Conditions, **2024 Conference on Uncertainty in Artificial Intelligence**, Barcelona
Apr 2024	A General Framework for Constraint-based Causal Learning, **European Causal Inference Meeting 2024**, Copenhagen

Talks

May 2024	Relaxing the Faithfulness Assumption in Causal Inference, **UCL Statistical Science PhD Seminars**, London
Dec 2023	A General Framework for Causal Learning Algorithms, **2023 IMS International Conference on Statistics and Data Science**, Lisbon
Sep 2023	The role of ordering in Causal Inference, **RSS International Conference 2023**, Harrogate

Organisational Duties

UCL-ELLIS CSML Seminar Series 2022-

Invited and organised academic speaker seminars in computational statistics and machine learning.
`https://ucl-ellis.github.io/jt_csml_seminar_home/`

Oxford Artificial Intelligence Society Committee 2017-2020

Hosted speaker events from corporations and academics in AI.
`https://tinyurl.com/wjk4g5m`
`http://tiny.cc/h2ngaz`

Awards

2022-2025	UCL Postgraduate Teaching Assistant Studentship
2017-2021	Verdant Foundation - Cheng Kin Ku Scholarship

Relevant Skills

Language

English	Fluent
Mandarin	Native
Malay	Grade A Proficiency in Malaysian O Levels (SPM)
Cantonese	Conversational

IT

Programming
- Matlab
- Python

Documentation
- Excel
- LaTeX