SIU LUN CHAU

Ph.D Student in Statistical Machine Learning

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EDUCATION SKILLS

DPhil in Statistical Machine Learning

University of Oxford

2019 - Ongoing

- Supervised by Prof. Dino Sejdionvic, Prof. Mihai Cucuringu and Prof. Xiaowen Dona
- Thesis title: Explainability, Causality, and Uncertainty via Kernel methods.

MMATH in Mathematics and Statistics (1st Class Honours)

University of Oxford

2017 - 2018

- Ranked 2nd in the year.
- Distinction in Master Thesis: Modelling Diseases Trajectories with Infinite Mixture of Gaussian Processes.

BA in Mathematics and Statistics (1st Class Honours)

University of Oxford

2014 - 2017

- Ranked 1st in the year.
- Distinction in Undergraduate Essay: Adaptive and Gradient Boosting in Machine Learning.

PUBLICATIONS

RKHS-SHAP: Shapley Values for Kernel Methods

The 25th International Conference on Artificial Intelligence and Statistics (AISTATS 2022) Under Review

Siu Lun Chau, Javier Gonzalez and Dino Sejdionvic

Learning Inconsistent Preference with Gaussian Processes

The 25th International Conference on Artificial Intelligence and Statistics (AISTATS 2022) Under Review

Siu Lun Chau, Javier Gonzalez and Dino Sejdinovic

BayesIMP: Uncertainty Quantification for Causal Data Fusion

Thirty-fifth Conference on Neural Information Processing Systems (NeuRIPS 2021)

Siu Lun Chau, Jean Francois Ton, Yee Whye Teh, Javier Gonzalez and Dino Sejdionvic

Deconditional Downscaling with Gaussian Processes

Thirty-fifth Conference on Neural Information Processing Systems (NeuRIPS 2021)

Siu Lun Chau, Shahine Bouabid and Dino Sejdinovic

Kernel-Based Grap Learning From Smooth Signals: A Functional Viewpoint

Transactions on Signal and information Processing over Networks (IEEE)

Xingyue Pu, Siu Lun Chau, Xiaowen Dong and Dino Sejdinovic

LANGUAGES

English Proficient • • • • Mandarin Native ••••

Cantonese Native ••••

Machine Learning Models

Kernel Methods

Gaussian Processes

Graph Neural Networks

Machine Learning Application

Causal Inference

Preference Learning

Explainable Al

Uncertainty modelling

Bayesian Optimisation

Graph ML

Software

Python

R

Pvtorch

Sckit-Learn

EXPERIENCES

Machine Learning Research Intern

Max Planck Institute for Intelligence Systems

- · Supervised by Dr. Krikamol Muandet.
- Researched into relaxing restrictive structural assumptions in causal Inference under unobserved confounding and decision making.

Machine Learning Content Developer Cambridge Spark

Designed projects and delivered Machine Learning courses to upskill students and corporate.

Machine Learning Engineer

Gini

Developed a Gaussian Processes based explainable time series model for giniPredict, a forecasting tool built for use in Google spreadsheets for decision-makers.

Machine Learning Consultant CatalystAi

- Developed a crop growth forecasting model using Gaussian Processes for Crop4Sight, an agricultural software company.
- Developed a demand forecasting model for a markdown optimisation project for a fashion retail company.

Founder and Manging Director

Oxford Strategy Group Digital

Launched and managed Oxford's first student-led machine learning consultancy group with over 50 technical consultants.