Leung Sing Chan

Curriculum Vitae

Department of Statistics
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🌐 *lucianlschan*

Research Interest

My research interests are in machine learning, computational statistics and topological data analysis. In particular, I am interested in applying these techniques to solve problems in chemistry and biology.

Education

2017 - **DPhil in Statistics**, University of Oxford, United Kingdom.
Supervisor:Prof Garrett M. Morris

2016 - 2017 **MSc Applied Statistics**, University of Oxford, United Kingdom.
Thesis: Predicting Adverse Drug-Drug Interactions (Supervisor: Prof Garrett M. Morris)

2013 - 2016 **BSc Mathematics and Statistical Science**, University College London, United Kingdom.
Thesis: Simulating Stochastic Differential Equation with Non-Globally Lipschitz Coefficients (Supervisor: Dr Yvo Pokern)

Publications

1. **Lucian Chan**, Geoffrey Hutchison and Garrett Morris. BOKEI: Bayesian Optimization Using Knowledge of Correlated Torsions and Expected Improvement for Conformer Generation. *ChemRxiv* 2019

2. Jean-Francois Ton, **Lucian Chan**, Yee Whye Teh, Dino Sejdinovic. Noise Contrastive Meta-Learning for Conditional Density Estimation using Kernel Mean Embeddings. *arXiv* 2019

3. Ho Chung Leon Law, Peilin Zhao, **Lucian Chan**, Junzhou Huang, Dino Sejdinovic. Hyperparameter Learning via Distributional Transfer. *arXiv* 2019

4. **Lucian Chan**, Geoffrey Hutchison and Garrett Morris. Bayesian Optimization for Conformer Generation. *Journal of Cheminformatics* 2019 11 32

Conference and Talks

April 2019 American Chemical Society National Meeting and Exposition
Title: Bayesian Optimization for Conformer Generation (Oral)

Industry Experience

June 2015 -
August 2015 Queen Mary University of London, NIHR Research Method Intern

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Research Groups

2017 -	Member of Oxford Protein Informatics Group

Teaching

Hilary 2019	University of Oxford, MSc Statistical Science: Statistical Programming
Michaelmas 2018	University of Oxford, Doctoral Training Center: Drug Discovery
Hilary 2018	University of Oxford, Doctoral Training Center: Data Science and High Performance Computing
Michaelmas 2017	University of Oxford, Doctoral Training Center: Statistics and Data Management

Awards and Scholarships

2016	International Students Dean's Summer Student Scholarships

Selected Experiences

2018	Co-founder of Oxford Strategy Group Digital
2017 - 2019	Secretary of the Oxford Hong Kong Postgraduate Society

Computing Skills and Languages

Languages	Cantonese (native), English (fluent), Mandarin (fluent)
Programming Languages	PYTHON, R, C++ (in order of usage)
Operating systems	Linux, Windows (in order of usage)