

# Zhongyi Hu

## PERSONAL DATA

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## EDUCATION

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OCT 2019-PRESENT | *University of Oxford* | Dphil in Statistics  
Supervisor: Prof. Robin Evans  
Research field: Graphical Model and Causal Inference  
Current project: developing a score-based method to learn the causal graph given data in the presence of latent confounders.

OCT 2015-JUN 2019 | *University of Oxford* | MMath Mathematics and Statistics  
Distinction and ranked 4/24.  
Course include: machine learning, graphical models, martingales, bayes method, simulation method and statistical inference.  
Dissertations: Estimating Causal Effects via Doubly Robust Estimators.

## PUBLICATION

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UAI 2020 | *Faster algorithms for Markov equivalence.*  
Author: Hu.Z and Evans.R. A state-of-art algorithm to verify Markov equivalence between maximal ancestral graphs which extend the well known directed acyclic graphs.

PREPRINT | *Towards standard imsets for maximal ancestral graphs.*  
Author: Hu.Z and Evans.R. A partial solution to extend the framework of imsets from DAGs to MAGs. Thus providing both a representation of Markov equivalence class of MAGs and an alternative scoring criteria to the usual BIC score.

## WORKING EXPERIENCE

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2019-2022 | *University of Oxford* | Tutor and teaching assistant  
Courses: Simulation, Graphical model, Foundations of Statistical Inference and Statistical Machine Learning.

## UNDERGRADUATE RESEARCH EXPERIENCE

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July 2018 | *University of Oxford* | Summer Research in Machine Learning  
Supervised by Dr.Andrey Kormilitzin. Use combination of the novel signature method and machine learning algorithms to predict future symptoms based on time series data. The accuracy is improved by ten percent compared to the baseline.

## COMPUTER SKILLS, INTERESTS AND ACTIVITIES

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Programming: Python, VB, Matlab, R, Latex.  
Languages: English and Chinese.  
Activities: Conference reviewer for UAI 2022,  
"Causality" program at UC, Berkeley (2022).  
Award: The Adam Monk Scholarship (2016).  
Interests: Table tennis and saxophone.