BRIAN K CHEN

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EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

PhD in Computer Science (2021- present), GPA: 4.42, Qualifying Examination: Passed

Coursework: Neural Networks and Deep Learning, Theory and Algorithms for Machine Learning, Advanced Topics in Machine Learning, Topics in Machine Learning and Optimization, Fundamentals of Logic in Computer Science, Advanced Topics in Artificial Intelligence

UNIVERSITY OF OXFORD

Masters in MMath Mathematics & Statistics (2016-2020), Upper 2nd Class Honours

Coursework: Statistical Inference, Computational Statistics, Functional Analysis, Applied Probability, Algorithmic Foundations of Learning, Further Functional Analysis, Stochastic Differential Equations, Advanced Machine Learning, Simulations

International Baccalaureate Diploma Program (2014-2016), Score: 40/45

EXPERIENCE

Esquel Group

Human Resources Data Analyst Intern

- Developed a worker turnover model to predict workers leaving in the next 3 months

ACADEMIC PUBLICATIONS

- [ICML POSTER] Brian K Chen, Tianyang Hu, Hui Jin, Hwee Kuan Lee, & Kenji Kawaguchi (2024). Exact Conversion of In-Context Learning to Model Weights in Linearized-Attention Transformers. In *Forty-first International Conference on Machine Learning*.

- [NEURIPS WORKSHOP POSTER] Brian K Chen, Tianyang Hu, Hui Jin, Hwee Kuan Lee, & Kenji Kawaguchi (2024). In-Context Learning behaves as a greedy layer-wise gradient descent algorithm. In *Adaptive Foundation Models: Evolving AI for Personalized and Efficient Learning*.

WORK IN PROGRESS

-[CO-FIRST] Rethinking Pathological Image Analysis through Shuffling

-**[CO-FIRST]** Approximate Conversion in Pretrained Large Language Models

SKILLS

Programming: MATLAB(Basic), R (Intermediate), Python (Intermediate)

Languages: English (Native), Mandarin (Fluent), Cantonese (Basic)