

Mengyan Zhang

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EDUCATION

Ph.D. Candidate in Machine Learning

Computational Media Lab, The Australian National University, 2018.08- present
Machine Learning Research Group, Data61, CSIRO, 2018.08- present

Bachelor of Computer Science (first class honours)

The Australian National University and Shandong University, 2+2 joint degree,
2014-2018, GPA 6.938/7.0

WORK EXPERIENCE

Research Internship

Social Computing Lab, Microsoft Research Asia, 2021.09 - present

Academic Tutor

Australian National University, paid teaching position, 2019-2021, total working hours: 300h

RESEARCH INTEREST

My research interests are online experimental design in machine learning, including multi-armed bandits and active learning. I work on both theoretical and practical views of experimental design with two goals: (I) Designing robust algorithms to reflect the preference of agents and understanding the concentration of measures and adaptive strategies involved. (II) Designing the pipeline and recommendation strategies for synthetic biology experimental design applications.

PUBLICATIONS/ PRE-PRINTS

Gaussian Process Bandits with Aggregated Feedback

Zhang, M., Tsuchida, R., Ong, C. S. (2022). AAAI Conference on Artificial Intelligence.

Quantile Bandits for Best Arms Identification

Zhang, M., Ong, C. S. (2021). International Conference on Machine Learning.

Opportunities and Challenges in Designing Genomic Sequences

Zhang, M., Ong, C. S. (2021). ICML Workshop on Computational Biology.

Machine learning guided batched design of a bacterial Ribosome Binding Site

Zhang, M., Holowko M. B., Hayman Zumpe H., Ong, C. S. (2021). under review.

Classification of Historical Death and Occupation coding

Zhang, M. (2018). Honours thesis. (Supervisors: Christen, P., Graham, T.)

OPEN SOURCE

Acton: Active Learning Library for Knowledge Graph

Alger M., Zhang M., Ong, C.S. (2018). [Python software](#)

AWARDS

2019 Data61 Top-up Postgraduate Research Scholarship

2018 PhD Scholarship of ANU

2018 ANU HDR Fee Remission Merit Scholarship

2017 Paul Thistlewatte Memorial Honours Year Scholarship of ANU
2015-2016 National Scholarship (China)
2016 Lan Qiao Cup Programming Competition Shandong province 1st prize

TALKS/PRESENTATIONS

Dec. 2021: WiML workshop in NeurPIS

Poster presentation: Gaussian Process Bandits with Aggregated Feedback

Jul. 2021: ICML Workshop on Computational Biology

Spotlight Talk: Opportunities and Challenges in Designing Genomic Sequences

Jul. 2021: Thirty-ninth International Conference on Machine Learning

Poster presentation: Quantile Bandits for Best Arms Identification

Jul. 2020: Machine Learning Summer School (acceptance rate: 13.84%)

Poster presentation: Quantile Bandits for Best Arms Identification

Dec. 2019: Collaborative Conference on Computational and Data Intensive Science

Talk: Optimized Experimental Design for Translation Initiation using Machine Learning

TEACHING

Tutor for [COMP8600 Statistical Machine Learning](#) (S1 2019, S1 2020, S1 2021)

Tutor for [COMP6670 Introduction to Machine Learning](#) (S2 2020)

TECHNICAL SKILLS

Programming: Python (familiar with PyTorch), Java, C#, C++

Language: Chinese, English

Others: Git, L^AT_EX

REFEREE

Dr. Cheng Soon Ong

Senior Principal Research Scientist, Director of [ML and AI future science platform](#) at CSIRO
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Prof. Lexing Xie

Professor, School of Computing, ANU; Director of [Computation Media lab](#); Director of [Humanising Machine Intelligence](#)

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