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

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.

RESEARCH & PROJECT

Gaussian Process Bandits with Aggregated Feedback
***Zhang, M.**, Tsuchida, Russell, 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 Design of Ribosome Binding Sites
***Zhang, M.**, Holowko M. B., Hayman Zumpe H., Ong, C. S. (2021). under review.*
Active Learning Library for Knowledge Graph
*Alger M., **Zhang M.**, Ong, C.S. (2018). Python software*
Classification of Historical Death and Occupation coding
***Zhang, M.** (2018). Honours thesis. (Supervisors: Christen, P., Graham, T.)*

WORK

Research Internship
Social Computing Lab, Microsoft Research Asian, 2021.09 - present

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

PRESENTATIONS

Quantile Bandits for Best Arms Identification
Machine Learning Summer School 2020 (acceptance rate: 13.84%)
Max Planck Institute for Intelligent Systems, Tübingen, Germany

Optimized Experimental Design for Translation Initiation using Machine Learning
Collaborative Conference on Computational and Data Intensive Science (C3DIS) 2020
Canberra, Australia

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, LaTex, Photoshop

REFEREE

Dr. Cheng Soon Ong
Principal Research Scientist, Director of the ML and AI future science platform at CSIRO
chengsoon.ong@anu.edu.au

Prof. Lexing Xie
Professor, School of Computing, ANU; Director of Computation Media lab
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