Fengyi Tang

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EDUCATION

MICHIGAN STATE UNIVERSITY

Ph.D. in Computer Science | Advisor: Jiayu Zhou

Aug. 2017 - Sept. 2021

UNIVERSITY OF CALIFORNIA SAN DIEGO

B.S. in Human Biology & M.S. in Biology

Sept. 2012 (B.S), Sept. 2014 (M.S.)

SELECTED PUBLICATIONS

- Fengyi Tang, Lifan Zeng, Fei Wang, and Jiayu Zhou (2020). "Adversarial Precision Sensing with Healthcare Applications". 2020 IEEE International Conference on Data Mining (ICDM'20).
- Fengyi Tang, Ikechukwu Uchendu, Fei Wang, Hiroko Dodge, Jiayu Zhou (2020). "Scalable Diagnostic Screening of Mild Cognitive Impairment Using AI Dialogue Agent". Nature Scientific Reports.
- Fengyi Tang., Betty HC Cheng (2020). "Protecting Temporal Signatures Using Synchronized Chaotic Circuits". Hawaiian International Conference of System Sciences 2020 (HICSS-53).
- Fengyi Tang, Cao Xiao, Fei Wang, Jiayu Zhou, and Li-wei H. Lehman (2019). "Retaining Privileged Information for Multi-Task Learning". In Proceedings of the 25th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (KDD '19).
- Xi Zhang, Fengyi Tang, Hiroko Dodge, Jiayu Zhou, and Fei Wang (2019). "MetaPred: Meta-Learning for Clinical Risk Prediction with Limited Patient Electronic Health Records". KDD'19.

EXPERIENCES

MACHINE LEARNING SCIENTIST II

Amplitude Analytics, San Francisco, CA

October 2021 - Present

- Shipped an in-house ML product for improving net retention.
- Led a research project on machine learning with graphs.

MACHINE LEARNING RESEARCH, ILLIDAN LAB

Michigan State University, East Lansing, MI

August 2017 - August 2021

- Developed a dialog system to identify language markers that can detect early-stage mild cognitive impairment.
- Thesis projects led to a \$3.9M NIH grant awarded to the lab that was featured in local news.

RESEARCH COORDINATOR

Weill Cornell Medical College, New York, NY

May 2019 - August 2019

• Developed "adversarial precision sensing", a technique that leverages 2 competing neural nets to do personalized feature selection on a budget-constraint with non-i.i.d. data; led to a first-authored publication in ICDM 2020.

DATA SCIENCE SUMMER INTERN

 MIT Laboratory of Computational Physiology, Cambridge, MA

May 2018 - August 2018

Developed "retaining privileged information" that enables sample-efficient multitask learning for neural nets;
led to a first-authored publication in KDD 2019.

PRESENTATIONS AND INVITED TALKS

SKILLS

- Machine Learning: reinforcement learning, natural language processing, deep unsupervised learning
- Technical Environments: Python, Pytorch, Tensorflow / Keras, Flask, MySQL, HTML & CSS
- Functional Skills: project management, grant proposal writing, ML life cycle