JIAXUAN WANG

Tel: (734) 834-7996 E-mail: <u>jiaxuan@umich.edu</u> Website: <u>nathanwang000.github.io</u>

EDUCATION

Ph.D. candidate at the University of Michigan, Ann Arbor

Sep 2017-Present

Computer Science and Engineering

Advisor: Jenna Wiens GPA: 4.00 / 4.00

Research interests: Model interpretability; Time-series analysis; Transfer/multitask learning; Non convex optimization; Feature selection; Temporal conditional shift; Computer vision; Deep

reinforcement learning; Causal inference; Basketball analytics

Computational skills: PyTorch; Jax; Javascript; Matlab; R; Python: C++: Chainer

Bachelors of Science in Engineering, Ann Arbor

Sep. 2013 - Dec. 2016

Computer Science major and Mathematics minor

GPA: 3.96 / 4.00

Directed research: Computer vision; Basketball analytics

EMPLOYMENT

Research Intern, Adaptive Systems and Interaction Group, Microsoft Research Jun. 6 - Aug.21 2020

Mentor: Scott Lundberg

Proposed a novel explanation method, Shapley Flow, that unifies and avoids the pitfall of 3 previous methods.

Software Engineering Intern, NLP group, Bloomberg L.P. (New York)

Jun. 6 - Aug. 19 2016

Mentors: Konstantine Arkoudas and Srivas Prasad

Algorithms for natural language parsing in financial chart domain: C++; SVM; PCFG

Research Assistant, Computer vision lab, University of Michigan

Oct. 2014 - Jan. 2016

Advisor: Jia Deng

Focus: Human action dataset collection; Amazon Mechanical Turk; Feature extraction; Rotation

equivariant network

PUBLICATIONS (* denotes equal contribution)

Shapley Flow: A Graph-based Approach to Interpreting Model Predictions

Jiaxuan Wang, Jenna Wiens, Scott Lundberg

Proceedings of the 23rd International Conference on Artificial Intelligence and Statistics (AISTATS), 2021

AdaSGD: Bridging the gap between SGD and Adam

Jiaxuan Wang, Jenna Wiens

arXiv preprint, 2020

Relaxed Parameter Sharing: Effectively Modeling Time-Varying Relationships in Clinical Time-Series

Jeeheh Oh*, **Jiaxuan Wang***, Shengpu Tang, Michael Sjoding, Jenna Wiens In Proceedings of the 4th Machine Learning for Healthcare Conference, 2019

Learning Credible Models

Jiaxuan Wang, Jeeheh Oh, Haozhu Wang, Jenna Wiens

ACM SIGKDD Conference on Knowledge Discovery and Data Mining, 2018

The Advantage of Doubling: A Deep Reinforcement Learning Approach to Studying the Double Team **Jiaxuan Wang***, Ian Fox*, Jonathan Skaza, Nick Linck, Satinder Singh, Jenna Wiens MIT Sloan Sports Analytics Conference, 2018

Learning to Exploit Invariances in Clinical Time-Series Data using Sequence Transformer Networks
Jeeheh Oh, **Jiaxuan Wang**, and Jenna Wiens
In Proceedings of the 4th Machine Learning for Healthcare Conference, 2018

HICO: A Benchmark for Recognizing Human-Object Interactions in Images Yu-Wei Chao, Zhan Wang, Yugeng He, **Jiaxuan Wang**, Jia Deng International Conference on Computer Vision (ICCV) 2015