

JIAXUAN WANG

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EDUCATION

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

Sep 2017-April 2022

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; Python; C++; Javascript; Matlab; R;

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 scientist in machine learning, Meta

Jun. 6 2022 - Present

Focus: Applying reinforcement learning to protect users' data.

Research Intern, Adaptive Systems and Interaction Group, Microsoft Research

Jun. 1 - 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. 7 - 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)

1. Learning Concept Credible Models for Mitigating Shortcuts

Jiaxuan Wang, Sarah Jabbour, Maggie Makar, Jenna Wiens

Proceedings of the 36th Conference on Neural Information Processing Systems (NeurIPS), 2022

2. [Shapley Flow: A Graph-based Approach to Interpreting Model Predictions](#)

Jiaxuan Wang, Jenna Wiens, Scott Lundberg

Proceedings of the 24th International Conference on Artificial Intelligence and Statistics (AISTATS), 2021

3. [AdaSGD: Bridging the gap between SGD and Adam](#)

Jiaxuan Wang, Jenna Wiens

arXiv preprint, 2020

4. [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

5. [Learning Credible Models](#)

Jiaxuan Wang, Jeeheh Oh, Haozhu Wang, Jenna Wiens
ACM SIGKDD Conference on Knowledge Discovery and Data Mining, 2018

6. [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

7. [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

8. [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

SERVICES

Reviewer @ NeurIPS 2022
Reviewer @ AISTATS 2022
Reviewer @ ICLR 2022
Reviewer @ AISTATS 2021
Reviewer @ NeurIPS 2020
Reviewer @ NeurIPS 2019
Reviewer @ MLHC 2021
Reviewer @ MLHC 2020
Volunteer @ Michigan AI symposium 2020
Reviewer @ SSAC 2020
Reviewer @ MLHC 2019
Reviewer @ SSAC 2019
Volunteer @ Michigan AI symposium 2019

INTEREST

Basketball since 3 years old
Bouldering for < 1 year
Violin since 5 years old
Guitar for 5 years