

## JIAXUAN WANG

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### EDUCATION

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#### **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

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#### **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)

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

**Jiaxuan Wang**, Jenna Wiens, Scott Lundberg

arXiv preprint, 2020

[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