Jiaxuan Wang

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EDUCATION

UNIVERSITY OF MICHIGAN   Ann Arbor, MI
Ph.D student in Computer Science Engineering, Sept. 2017 - Present
- GPA: 4.00/ 4.00
Advisor: Jenna Wiens

Bachelors of Science in Engineering, Sept. 2013 - Dec. 2016
Computer Science major and Math minor
- GPA: 3.956 / 4.00

SUMMARY

I develop novel machine learning algorithms to work with time-series data, motivated by clinical needs. My research area involves non-convex optimization, temporal conditional shift, model interpretability, and application of reinforcement learning.

INTERN

MACHINE LEARNING @ DATA DRIVEN DECISIONS LAB   Ann Arbor, MI
Research Assistant, Jan. 2017 - Aug. 2017
- Advisor: Jenna Wiens
- Proposed and investigated a novel regularization technique to incorporate domain knowledge into a linear model to increase its interpretability

MACHINE LEARNING @ BLOOMBERG LP   New York
Natural Language Processing Intern, June 6 - August 19, 2016
- Mentor: Konstantine Arkoudas and Srivas Prasad
- Semantic parsing for financial chart with RTN (a variant of PCFG) from scratch

COMPUTER VISION LAB   Ann Arbor, MI
Undergraduate Researcher, Oct. 2014 – Jan. 2016
- Advisor: Jia Deng
- Proposed and implemented Rotational Convolution Neural Network in Matlab and Torch 7 (during the SURE program 2015)

PAPERS

Relaxed Parameter Sharing

Jeeheh Oh, **Jiaxuan Wang**, Shengpu Tang, Michael Sjoding, Jenna Wiens
Machine Learning for Healthcare, 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 in the NBA](The Advantage of Doubling)
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](Learning to Exploit Invariances)
Jeeheh Oh, **Jiaxuan Wang**, and Jenna Wiens
Machine Learning for Healthcare, 2018

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