Ruohan Zhan

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EDUCATION

Stanford University   *09/2017 - 06/2022(expected)*
Ph.D. in Computational and Mathematical Engineering - GPA: 4.06/4.00   advisor: Susan Athey
Research Interests: causal inference, statistics, machine learning.

Peking University   *09/2013 - 07/2017*
B.S. in Mathematics - GPA: 3.86/4.00

WORKING PAPER

Confidence Intervals for Policy Evaluation in Adaptive Experiments   *05/2019-present*
joint work with Viror Hadad, David A. Hirshberg, Stefan Wager and Susan Athey

- Statistical inference on adaptively collected bandits data

- Weighted AIPW estimator with consistency and asymptotic normality

- Heuristic weights with empirical perfect coverage

INDUSTRIAL EXPERIENCE

Google LLC, Mountain View   *06/2019-09/2019*
Research Intern, Perception

- Developed deep generative models to embed information into images with robustness to image distortions

- Submitted to CVPR 2020

Cubist Systematic Strategies, LLC, New York   *06/2018-09/2018*
Summer Research Analyst, Equity Trading

- Developed advanced machine learning algorithms and methodologies to analyze large amount of equity-based data

- Alpha seeking and alpha combination, added positive value to the algorithmic trading system of the group

- Built a C++ interface of developed model for production

OTHER RESEARCH PROJECTS

Safety Masked Reinforcement Learning(soon to be submitted)   *10/2018-present*
joint work with Maxime Bouton and Mykel Kochenderfer

- Designed a safety-enhanced, scalable, model-free RL algorithm for MDPs in both learning and deployment processes.

Machine Comprehension on SQuAD using Bi-Directional Attention Flow   *01/2018-03/2018*
CS 224N, Natural Language Processing with Deep Learning, Stanford University, teamed with Daisy Ding

- Applied RNN with Bi-Directional Attention Flow to SQuAD dataset for machine comprehension

PUBLICATION

- **Ruohan Zhan**, Bin Dong. *CT Image Reconstruction by Spatial-Radon Domain Data-Driven Tight Frame Regularization*, SIAM Journal on Imaging Sciences, 9(3), 1063-1083, 2016.

- Baichuan Yuan, Sathya R. Chitturi, Geoffrey Iyer, Nuoyu Li, Xiaochuan Xu, **Ruohan Zhan**, Rafael Llerena, Jesse T. Yen, Andrea L. Bertozzi. *Machine Learning for Cardiac Ultrasound Time Series Data*, SPIE Medical Imaging 2017.

SELECTED HONORS

- D.E. Shaw Exploration Fellowship   *08/2019*
- First Prize of 2018 Citadel Datathon at Stanford (Citadel Spotlight)   *10/2018*
- TOTAL Innovation Fellowship, Stanford   *08/2018, 08/2019*