Ruqi Bai

Seeking 2024 Summer ML related Intern

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EDUCATION

Purdue University, West Lafayette, Indiana   Aug. 2019 — May. 2025 (Expected)

Ph.D. in Electrical and Computer Engineering

Advisor: David I. Inouye

PUBLICATIONS

* *denotes equal contribution.*

Benchmarking Algorithms for Federated Domain Generalization

Ruqi Bai, Saurabh Bagchi, David I. Inouye

The Twelfth International Conference on Learning Representations (ICLR). 2024, (Spotlight).

Towards Characterizing Domain Counterfactuals for Invertible Latent Causal Models

Ruqi Bai*, Sean Kulinski*, Zeyu Zhou*, Murat Kocaoglu, David I. Inouye

The Twelfth International Conference on Learning Representations (ICLR). 2024.

Improving Practical Counterfactual Fairness with Limited Causal Knowledge

Zeyu Zhou, **Ruqi Bai**, David I. Inouye

(Under Review)

HAWKEYE: Adversarial Example Detection through Ensemble Detectors

Ruqi Bai, Jinkyu Koo, Heron Teegarden, Michael Roth, Kevin Chan, David I. Inouye, Saurabh Bagchi

SPIE Defense and Commercial Sensing Symposium,11746-21, 2021.

WORKING EXPERIENCE

Purdue University   Aug. 2020 — Jan. 2023

Research Assistant

- Multi-Agent Tracking and Intention Prediction.
- Latent Causal Representation Learning.
- Domain Generalization in Federated Learning.

Baidu, Inc   Aug. 2016 — Jun. 2019

Senior Site Reliability Engineer

- Led the exploration of the design and development of Baidu Phoenix Nest's first AI distributed tracing and failure location system. Averaging MTTR from 45min to 17min. Millions cost saving per year.
- Assisted in building Baidu Phoenix Nest's large-scale tracing infrastructure, achieving distributed log splice across thousands of servers in one minute.
- Participating Baidu Search System Assurance in the 2019 Spring Festival Gala Red Envelope, an event brought billions of page view in a minute.

SKILL

- **Python:** PyTorch, NumPy, SciPy, pandas, scikit-learn, WanDB
- **Tool:**   Git, Linux, Bash, LaTeX