

Shibo Li

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Research Interests

- Bayesian machine learning/modeling, approximate inference
- (Multi-output/fidelity/tasks) Active-learning/Bayesian-optimization
- (Bayesian) Meta-learning
- Reinforcement Learning and Decision making under uncertainties

Education

- **University of Utah** Salt Lake City, UT
Ph.D. in Computer Science; GPA:3.9 Aug. 2019 – Present
- **University of Pittsburgh** Pittsburgh, PA
M.S. in Mechanical Engineering; GPA:3.78 Aug. 2012 – Apr. 2014
- **South China University of Technology** Guangzhou, Guangdong, China
B.E. in Mechatronics and Robotics; GPA:3.20 Sep. 2008 – Jun. 2012

Experience

- **Amazon, Inc.** Seattle, WA
Applied Scientist Intern May. 2021 – Aug. 2021
– Research and development of SOTA privacy preserved machine learning algorithms
- **University of Utah** Salt Lake City, UT
Research Assistant Aug. 2019 – Present
– Uncertainty quantification of deep models, Active Learning, Bayesian Optimization and Meta Learning
- **Schlumberger-Doll Research** Cambridge, MA
Robotics Research Intern Jun. 2018 – Oct. 2018
– Research and development of planning algorithms under point cloud observation

Skills

Programming: Python, C, C++, Java, Scala, Matlab

Tools: PyTorch, TensorFlow, Jax, ROS, ...

Publications

- [1] S. Li, R. M. Kirby, and S. Zhe, *Batch multi-fidelity bayesian optimization with deep auto-regressive networks*, 2021. arXiv: 2106.09884 [cs.LG].
- [2] S. Li, R. M. Kirby, and S. Zhe, *Deep multi-fidelity active learning of high-dimensional outputs*, 2020. arXiv: 2012.00901 [cs.LG].
- [3] S. Li, W. Xing, M. Kirby, and S. Zhe, “Multi-fidelity bayesian optimization via deep neural networks,” *Neural Information Processing Systems(NeurIPS)*, 2020.
- [4] S. Li, W. Xing, R. M. Kirby, and S. Zhe, “Scalable gaussian process regression networks,” in *International Joint Conference on Artificial Intelligence-Pacific Rim International Conference on Artificial Intelligence (IJCAI-PRICAI)*, 2020.
- [5] T. Yang, S. Fang, S. Li, Y. Wang, and Q. Ai, “Analysis of multivariate scoring functions for automatic unbiased learning to rank,” in *Proceedings of the 29th ACM International Conference on Information & Knowledge Management*, 2020, pp. 2277–2280.