

Education

May 2022 **Ph.D. in Computer Science**, Tufts University, Medford, MA.
Feb. 2019 **M.S. in Computer Science**, Tufts University, Medford, MA. GPA: 4.0/4.0.
Jul. 2015 **B.Eng. in Computer Science**, Sichuan University, Sichuan, China.

Skills

Language Python, C/C++, MATLAB, TensorFlow, PyTorch, Keras, HTML, CSS, \LaTeX .
Application PyCharm, Vim, MySQL, Git, Google Cloud, AWS, Photoshop.

Experience & Projects

2021 **Facebook**, *Summer Internship, PhD Software Engineer*.
Apply cutting-edge machine learning to facilitate ads delivery.
2020 **Amazon Web Services (AWS)**, *Summer Internship, Applied Scientist*.
Developed graph neural network models to assist large-scale code analysis.
2017-2019 **Tufts University**, *Research Assistant*.
Scaled up Gaussian processes with variational inference and graph convolutional networks.
2017-2018 **Tufts University**, *Head Teaching Assistant*.
Introduction to Machine Learning, Artificial Intelligence, Algorithm, Discrete Mathematics.
2015-2016 **Zhejiang University**, *Research Assistant*.
Provided ensemble and probabilistic models to process ginseng electronic nose sensory data.

Publications

1. **Liu L**, Hughes M.C, Hassoun S, Liu L. "Stochastic Iterative Graph Matching." International Conference on Machine Learning (ICML) 2021.
2. **Liu L**, Nguyen H, Karypis G, Sengamedu S. "Universal Representation for Code." Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD) 2021, pp. 16-28.
3. **Liu L***, Appleby G*, Liu L. "Kriging Convolutional Networks." Association for the Advancement of Artificial Intelligence (AAAI) 2020, pp. 3187-3194. **Poster Spotlights**.
4. **Liu L**, Liu L. "Localizing and Amortizing: Efficient Inference for Gaussian Processes." Asian Conference on Machine Learning (ACML) 2020.
5. **Liu L**, Liu L. "Amortized Variational Inference with Graph Convolutional Networks for Gaussian Processes." Artificial Intelligence and Statistics (AISTATS). 2019, pp. 2291-2300.
6. **Liu L**, Liu L. "Non-Parametric Variational Inference for Gaussian Processes with Graph Convolutional Networks." Bayesian Nonparametrics (BNP) Workshop at NeurIPS. 2018. **Poster Spotlights**.
7. **Liu L**, Hassoun S. "A Tool for Predicting the Dark Side of Enzymes." ACM International Conference on Bioinformatics, Boston, August 2017.
8. Sun X, **Liu L**, Wang Z, Miao J, Wang Y, Luo Z, Li G. "An Optimized Multi-classifiers Ensemble Learning for Identification of Ginsengs Based on Electronic Nose." Sensors and Actuators A: Physical. 2017, Vol. 266, pp. 135-144.
9. Wang Y, Miao J, Lyu X, **Liu L**, Luo Z, Li G. "Valid Probabilistic Predictions for Ginseng with Venn Machines Using Electronic Nose." Sensors. 2016;16(7):1088. doi:10.3390/s16071088.
10. Li X, **Liu L**. "Volume Measurement System of Massive Material Based on Aerial Photography." Chinese Software Copyright. 2014SR096344(30100-0000).

Professional Service

Reviewer, PC: TPAMI. NeurIPS (2020, 2021). ICML (2021). IJCAI (2020, 2021). AISTATS (2021, 2022). AAAI (2019, 2022). DLG-KDD(2021). DLG-AAAI (2020).

Invited talk: Efficient Inference for Gaussian Process. Machine Intelligence Conference (2019).

Awards and Honors

National Scholarship by Chinese Ministry of Education.
Gold Medal, ACM-International Collegiate Programming Contest (Asia Regional).