

# Qiuling Suo

Personal Website: [suoql.github.io](http://suoql.github.io)

Google Scholar: [scholar.google.com/citations](https://scholar.google.com/citations) | LinkedIn: [www.linkedin.com/in/suoql](https://www.linkedin.com/in/suoql)

## Education

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Ph.D. in Computer Science and Engineering, <b>University at Buffalo</b>	2015-2022
Master in Aerospace Engineering, <b>Pennsylvania State University</b>	2013-2015
Bachelor in Engineering (honor school), <b>Beihang University, China</b>	2009-2013

## Research Experience

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### Task-Adaptive Network for Graph-Enriched Meta-Learning (KDD'20)

- Proposed a meta-learning framework with task-adaptive metric space for few-shot learning
- Incorporated external knowledge represented in graphs to the framework via graph attention
- The model tailors the learned structure knowledge to metric space per task for classification, and is evaluated on image and healthcare tasks separately

### Multimodal Metric Learning with Incomplete Modalities (IJCAI'19)

- Proposed a metric learning framework for measuring patient similarities with modality missingness
- Preprocessed MRI and PET modalities from Alzheimer's disease dataset using SPM
- Implemented a semi-supervised GAN to generate data for missing modalities

### Multi-task Sparse Metric Learning for Monitoring Disease Progression (ICDM'18)

- Developed a multi-task metric learning method to predict disease stages in multiple future timestamps
- Incorporated label relationships in formulating distance constraints

## Work Experience

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<b>Research Scientist</b> , Meta Platform, Menlo Park, CA	March 2022 – Present
<b>Software Engineer Intern</b> , Meta Platform, Menlo Park, CA	June 2021 – August 2021
◦ Build and implement feature imputation models for signal loss	
<b>Research Intern</b> , Baidu USA, Computer Vision Group, Sunnyvale, CA	September – December 2020
◦ Worked on meta-learning and network compression	
<b>Research Intern</b> , IQVIA Inc., Machine Learning Group, Cambridge, MA	February 2020 – May 2020
◦ Worked on rare disease prediction with data imbalanced problem	

## Technical Skills

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**Languages:** Python, R, C, Java, SQL

**Tools:** PyTorch, Tensorflow, Keras, Theano, Spark

## Selected Publications

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- [1] W Zhong, **Q Suo**, A Gupta, X Jia, C Qiao, L Su. "MetaTP: Traffic Prediction with Unevenly-Distributed Road Sensing Data via Fast Adaptation", in *Proceedings of UbiComp*, 2021 Sep 14;5(3):1-28.
- [2] Z Wang, T Duan, L Fang, **Q Suo**, M Gao. "Meta Learning on a Sequence of Imbalanced Domains with Difficulty Awareness", In *Proceedings of the IEEE/CVF ICCV*, 2021.
- [3] **Q Suo**, J Chou, W Zhong, A Zhang. "TAdaNet: Task-Adaptive Network for Graph-Enriched Meta-Learning", in *Proceedings of ACM SIGKDD*, 2020.
- [4] W Zhong, **Q Suo**, F Ma, Y Hou, A Gupta, C Qiao, L Su, "A Reliability-Aware Vehicular Crowdsensing System for Pothole Profiling", in *Proceedings of UbiComp*, 2019.
- [5] **Q Suo**, W Zhong, F Ma, Y Yuan, J Gao, A Zhang, "Metric Learning on Healthcare Data with Incomplete Modalities", in *Proceedings of IJCAI*, 2019.
- [6] F Ma, J Gao, **Q Suo**, Q You, J Zhou, A Zhang, "Risk prediction on electronic health records with prior medical knowledge", in *Proceedings of ACM SIGKDD*, 2018.
- [7] **Q Suo**, W Zhong, F Ma, Y Yuan, M Huai, A Zhang, "Multi-task Sparse Metric Learning for Monitoring Patient Similarity Progression", in *IEEE International Conference on Data Mining (ICDM)*, 2018.
- [8] **Q Suo**, F Ma, G Canino, J Gao, A Zhang, P Veltri, "A multi-task framework for monitoring health conditions via attention-based recurrent neural networks", in *AMIA annual symposium proceedings*, 2017.