Lu Zhang, Ph.D Student

University of Texas at Arlington
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EDUCATION

2018 – now **Ph.D Student, Computer Science and Engineering**
University of Texas at Arlington, Arlington,TX
Advisor: Dajiang Zhu, Ph.D.

2015 – 2018 **M.S. Computer Science and Technology**
Northwestern Polytechnical University, Xi'an, China
Advisor: Xiao'an Li, Ph.D.

2011 – 2015 **B.S. Computer Science and Technology**
Northwestern Polytechnical University, Xi'an, China

PROFESSIONAL POSITIONS

2021 – 2022 **Research Assistant**
Computer Science and Engineering
University of Texas at Arlington, Arlington, TX

2019 – 2021 **Teaching Assistant**
Computer Science and Engineering
University of Texas at Arlington, Arlington, TX

2018 – 2019 **Research Assistant**
Computer Science and Engineering
University of Texas at Arlington, Arlington, TX

RESEARCH INTERESTS

My research is focused on **brain imaging**, **computational neuroscience**, **machine learning** and **big data solutions** for medical data analysis.

AWARDS AND HONORS

2019 UTA Doctoral Student Research and Travel Grant Award
2020 MICCAI 2020 Young Scientist Award
2020 MICCAI 2020 Student Travel Award

Talk

University of Texas at Arlington

2019 Guest Lecture: Multi-Modality Analysis in Mild Cognitive Impairment (CSE6363)
2021 Guest Lecture: Recurrent Neural Network and Transformer (CSE 6363)
2021 Some Thoughts on My PhD Training (CSE BPC (Broadening Participation in Computing) Colloquium)
2022 Guest Lecture: STree-E: Hierarchical Semantic Tree Embedding for Image Understanding (CSE 6363)

PUBLICATIONS

[8] **Lu Zhang**, Li Wang, Dajiang Zhu, and Alzheimer's Disease Neuroimaging Initiative. "Predicting brain structural network using functional connectivity." Medical Image Analysis 79 (2022): 102463.

[7] **Lu Zhang**, Li Wang, Jean Gao, Shannon L. Risacher, Jingwen Yan, Gang Li, Tianming Liu, Dajiang Zhu, and Alzheimer's Disease Neuroimaging Initiative. "Deep fusion of brain structure-function in mild cognitive impairment." Medical image analysis 72 (2021): 102082.

[6] **Lu Zhang**, Li Wang, and Dajiang Zhu. "Recovering brain structural connectivity from functional connectivity via multi-gcn based generative adversarial network." International Conference on Medical Image Computing and Computer-Assisted Intervention, 2020, (**Young Scientist Award**).

[5] **Lu Zhang**, Li Wang, and Dajiang Zhu. "Jointly Analyzing Alzheimer's Disease Related Structure-Function Using Deep Cross-Model Attention Network." 2020 IEEE 17th International Symposium on Biomedical Imaging (ISBI). IEEE, 2020. (**Oral**)

[4] Li Wang, **Lu Zhang**, and Dajiang Zhu. "Learning Latent Structure Over Deep Fusion Model of Mild Cognitive Impairment." 2020 IEEE 17th International Symposium on Biomedical Imaging (ISBI). IEEE, 2020.

[3] **Lu Zhang**, Akib Zaman, Li Wang, Jingwen Yan and Dajiang Zhu, "A Cascaded Multi-Modality Analysis in Mild Cognitive Impairment."10th International Workshop on Machine Learning in Medical Imaging (MLMI 2019) held in Conjunction with MICCAI 2019.

[2] Akib Zaman, **Lu Zhang**, Jingwen Yan and Dajiang Zhu, "Multi-Modal Image Prediction via Spatial Hybrid U-Net." 1st International Workshop on Multiscale Multimodal Medical Imaging (MMMI 2019) held in Conjunction with MICCAI 2019, (**Best Oral Paper**).

[1] Li Wang, **Lu Zhang** and Dajiang Zhu, "Accessing Latent Connectome of Mild Cognitive Impairment via Discriminant Structure Learning." IEEE International Symposium on Biomedical Imaging (ISBI), 2019.