Lijun An

Electrical & Computer Engineering
National University of Singapore
https://www.anlijun.cn

Phone: (+65) 91218362
Email: lijun.an@hotmail.com
Google Scholar Profile

EDUCATION

2019 – 2023 **National University of Singapore, Singapore**
Ph.D. candidate, Electrical and Computer Engineering
Advisor: B.T. Thomas Yeo

2014 – 2018 **Harbin Institute of Technology, China**
B.Eng., Instrumentation Science and Engineering
Advisor: Bo Zhao & Jiubin Tan

2017 – 2018 **National Institute of Applied Sciences of Lyon, France**
Exchange student, Télécommunications

RESEARCH EXPERIENCE

2019 – 2023 **Ph.D. Student**, Computational Brain Imaging Group, Yong Loo Lin School of Medicine, National University of Singapore
Supervisor: B.T. Thomas Yeo
Thesis: Deep learning based brain MRI harmonization
Other works: (1) Data management and preprocessing: ADNI, MACC, AIBL.
(2) Mentorship: Zongyi Guo, Pansheng Chen, Cheng Zhang

2017 – 2018 **Final Year Project Student**, Department of Instrumentation Science and Engineering, Harbin Institute of Technology
Supervisor: Bo Zhao & Jiubin Tan
Thesis: Video super-resolution with convolutional neural networks

RESEARCH INTERESTS

Brain MRI harmonization, Neurodegenerative diseases, Mental disorder, Brain-based phenotype prediction;

Deep generative modeling, Transfer learning, Time series modeling.

PUBLICATIONS

[1] Yan, X., Kong, R., Xue, A., Yang, Q., Orban, C., **An, L.**, ... & Yeo, B. T. (2023). Homotopic local-global parcellation of the human cerebral cortex from resting-state functional connectivity. NeuroImage, 273, 120010.

[2] Chopra, S., Dhamala, E., Lawhead, C., Ricard, J., Orchard, E., **An, L.**, ... & Holmes, A. (2023). 252. Reliable and Generalizable Brain-Based Predictions of Cognitive Functioning Across Common Psychiatric Illness. Biological Psychiatry, 93(9), S195.

[3] **An, L.**, Chen, J., Chen, P., Zhang, C., He, T., Chen, C., ... & Alzheimer's Disease Neuroimaging Initiative. (2022). Goal-specific brain MRI harmonization. NeuroImage, 263, 119570.

[4] He, T., **An, L.**, Chen, P., Chen, J., Feng, J., Bzdok, D., ... & Yeo, B. T. (2022). Meta-matching as a simple framework to translate phenotypic predictive models from big to small data. Nature neuroscience, 25(6), 795-804.

[5] Nguyen, M., He, T., **An, L.**, Alexander, D. C., Feng, J., Yeo, B. T., & Alzheimer's Disease Neuroimaging Initiative. (2020). Predicting Alzheimer's disease progression using deep recurrent neural networks. NeuroImage, 222, 117203.

PRENTATIONS AND ASTRACTS

Singapore Longevity Science Symposium — September 2022
Goal-specific brain MRI harmonization — Singapore

OHBM — June 2022
Application-specific brain MRI harmonization — Glasgow, UK (Virtual)

Centre for sleep and cognition, NUS — November 2021
Task-specific brain MRI harmonization — Singapore (Virtual)

Centre for sleep and cognition, NUS — December 2020
Benchmarking brain MRI harmonization — Singapore (Virtual)

Tadpole-share Symposium — July 2020
Modeling Alzheimer's disease using deep recurrent neural networks — Netherlands (Virtual)

AWARDS AND HONORS

NUS Research Scholarship — National University of Singapore, 2019

Outstanding Graduates of the Class 2018 — Harbin Institute of Technology, 2018

National Scholarship — Ministry of Education of the People's Republic of China, 2017

SKILLS

OS	Linux, Unix, Windows
Programming Languages	Python, MATLAB, R, Shell, C
Modalities	sMRI
Software	FreeSurfer, PyTorch, scikit-learn, SciPy
Specialities	Deep learning, Machine learning
Languages	Proficient in Chinese and English (written and spoken)

REFERENCES

Name	Email
Dr. B.T. Thomas Yeo	thomas.yeo@nus.edu.sg
Dr. Juan Helen Zhou	helen.zhou@nus.edu.sg
Dr. Bo Zhao	hitzhaobo@hit.edu.cn