

We want to utilize electrophysiology and/or optical imaging data and/or EEG/MEG data, combined with biophysical models and/or machine learnings to understand how interneuron/ inhibition shapes cortical activity.

Specifically, we want to investigate how inhibition contributes to decision making in mice or primates or humans

Now our team includes Mia (Mingyi Huang), Hao Gao, Wei Zhang, Yiming Wei, Huadong Shen (Our team is now full , 7.14.2020)



[fMRI/EEG/MEG data analysis]
[motor planning and execution]
[attention mechanism]
[computational modeling]
proficient in programming(Matlab/python)
solid foundation of mathematics
by Yiming Wei

【topic】
Attention, Memory, ADHD, executive function
【tech】
fMRI
—— Anqi Li

visual
perception, deep
learning

I love to study how people make decisions/choices.Also, deep learning is my interest area.
By Huadong Shen

I like coding.
Please show me your Data.

By Hao

Yu Zhao (I am a novice in coding)
Research topics of interests:
Visual perception, visual feature mapping, object recognition and representation, the relationship between actions and objects

Methods: computer vision, fMRI MVPA, voxel-wise modeling, encoding, decoding models, neural networks

OCD, decision making, reinforce learning

By Xiangshu Wu

Neural circuits dynamics
Visual processing
EEG data analysis
Deep learning
Information theory applied for the brain

By Guanyue