Shi Mao 毛适

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Tsinghua University, Beijing, P.R. China

Education

M. Phil. @ Tsinghua University (THU)   Fall 2019 –

Data Science & Information Technology，Tsinghua-Berkeley Shenzhen Institute (TBSI)

GPA: 3.98/4.0   Rank: 2nd /95

Excepted Graduation: 2022.06

B. E. @ South China University of Technology (SCUT)   Fall 2015 – Spring 2019

Intelligence Science & Technology，Automation Department

GPA: 3.88/4.0   Rank: 1st /51

Visiting Student @ University of California, Berkely (UCB)   Fall 2018

Computer Science & Statistics, Exchange Program

Got 3A and 1B+ in all major courses

Research Experience

GigaMVS: A Benchmark for Ultra-large-scale Gigapixel-level 3D Reconstruction   Sep 2020 – Oct 2021

Construct high-resolution 3D reconstruction dataset to support large scene reconstruction with fine details.

Contribute to the data collection and analysis. Accepted by IEEE TPAMI (as co-first-auther).

Surface Material Perception Through Multimodal Learning   Aug 2021 – Apr 2022

Material perception using structured light camera by fusing reflecting, scattering and texture modalities.

Contribute to the methods, theoretical analysis and experiments. Under review by IEEE JSTSP (as first-author)

Visual system of a BCI manipulator for automatic drinking   Jun 2017– May 2018

Recognize and localize the cup for grasping by computer vision.

As a team leader of National Undergraduate Training Program. Accepted by ROBIO. (as second author)

Deciphering cortex neural signals using mesoscale imaging and electrophysiology   Sep 2021 – Mar 2022

Analyze the dynamic yet distributed neural activities using imaging and electrophysiology methods.

Contribute to the neural decoding of facial expressions.

Mapping brain dynamics in unconsciousness with a human SEEG resource   Mar 2021 – Jun 2021

Characterized the neural oscillations of different consciousness state, based on SEEG implanted in human brain.

Contribute to the data analysis. Under review by Brain (as co-auther).

Honors

China National Scholarship (twice)		2016 & 2017
Mathematical Contest In Modeling (ICM)	Meritorious Award	2017
8-th Mathematics competition of Chinese College Students	First Price	2016