Shi Mao 毛适

(+86) 13416342937
mssheldonmao@gmail.com
Tsinghua University, Beijing, P.R. China
1997-Feb-24 [Homepage] [Google Scholar]

Education

M. Sc. @ Tsinghua University (THU)   Fall 2019 – Spring 2022

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

GPA: 3.95/4.0   Rank: 2nd/98   Advisor: Prof. Qionghai Dai & Prof. Lu Fang

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

Intelligence Science & Technology，Automation Department

GPA: 3.90/4.0   Rank: 1st/51

Visiting Student @ University of California, Berkeley (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 (IF:16.389, as co-first-author).

Surface Material Perception Through Multimodal Learning   Sep 2019 – Apr 2022

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

Contribute to the methods, theoretical analysis and experiments. Accepted by IEEE JSTSP (IF:6.856, 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 and distributed neural activities using imaging and electrophysiology methods.

Contribute to the neural decoding of facial expressions.

Other Experiences

Teaching Assistant for *Introduction to Audio-visual Information system*   Fall 2021 @ THU

Design assignments and provide coding guidance.

Honors

Chinese National Scholarship, by Minister of Education of China	2017
Chinese National Scholarship, by Minister of Education of China	2016
Interdisciplinary Contest in Modeling (ICM) Meritorious Award	2017
8-th Mathematics competition of Chinese College Students First Price	2016