

Lei Luo

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EDUCATION

King's College London

Neuroscience Master Institute of Psychiatry, Psychology & Neuroscience London
"3+1" Joint Undergraduate and Master Training Program at King's College London and Southern University of Science and Technology. (Only 3 people were chosen and funded in 2021 at SUSTech) Sep 2021 - Sep 2022
Dissertation: *"The utility of multi-task machine learning for decoding of brain states"*.

Southern University of Science and Technology.

Bioscience Bachelor College of Life Sciences Shenzhen
GPA: 3.5 /4.0 Sep 2018 - Sep 2021
Dissertation: *"Mechanism Inquiry of The Strategy of Pericyte Based on Medical Stimulation"*.

PROFESSIONAL EXPERIENCE (list by the end time)

Professor Hou Shengtao laboratory

Shenzhen
Internships Sep 2019 - Jun 2022
As the secondary contributing author, publish an article titled *"40 Hz light flicker alters human brain EEG microstates and complexity implicated in brain diseases"* on Frontiers in Neuroscience. Data was collected with EEG and analyzed with python.
Jun 2021 - Oct 2021

Extract, isolate and culture pericytes from mice and try to build a system for recognizing pericytes from all cells by neural network deep machine learning. Aug 2020 - Apr 2021

The National College Student Innovation and Entrepreneurship Training Program in China, with the topic *"rhythmic flicking can save hippocampal γ and protect ischemic neurons by affecting pericytes"*. Apr 2020 - Sept 2021

The lipidomic research of stroke, learn cell culture techniques and experiment with calcium imaging, immunofluorescence methods. Learn the cardiac perfusion techniques and construction method of creating mouse tMACO models. Sept 2019 - Jan 2020

Behavioral experiments for example water maze, Y maze, novel object recognition. Sept 2019 - Nov 2019

Southern University of Science and Technology - Queensland University Joint Neuroscience and Nervous Engineering Research Center

Shenzhen
Student assistant Oct 2019 - Oct 2021
Cooperate to organize the national scientific seminars. Periodically biweekly contact with researchers, typeset and post the announcement for each seminar.

Chinese Institute for Brain Research, Beijing

Beijing
Camper Jan 2021 - Feb 2021
The winter camp of the Chinese Institute for Brain Research, Beijing and became an excellent camper. Attended a two-week course and gave a presentation with the group.

Professor Xiao Guozhi laboratory

Shenzhen
Internships Jun 2019 - Sep 2019
Learned laboratory basic knowledge, a series of model animals' experiments. Made contributions to the main project by doing designed experiments weekly. Determined my interest in neuroscience.

HONARS and AWARDS

Publications

40 Hz light flicker alters human brain EEG microstates and complexity implicated in brain diseases (as the secondary author, Frontiers in Neuroscience) (IF: 4.501)

Awards

The Study Abroad Program Scholarships for Undergraduates of the Southern University of Science and Technology (2021, 2022)

Third Prize Scholarship in Zhicheng College of the Southern University of Science and Technology (2019)

The Third Prize of the National High School Mathematics Competition (2018)

SKILLS, CERTIFICATIONS & OTHERS

Programming: Language: Python and R (used in my previous research), Java (courses), html & ejs (blog), C and C++ (learning)

Certifications: IELTS 6.5 (Listening: 6.5, Reading: 6.5, Talking: 6, Writing: 6)

Languages: Mandarin (Bilingual or native proficiency), Wu (Bilingual or native proficiency), English (Complete professional competence), Cantonese (Limited working proficiency), German (Elementary proficiency)

Lab Skills: EEG; electrophysiology experiments (patch-clamp); calcium imaging; construction of mouse tMCAO model; neurons extraction; immunofluorescence; frozen and vibratome section; cardiac perfusion techniques; etc.

Club: Membership in the **supercomputing** and **big data analytics** center for computational science and engineering in Southern University of Science and Technology.