

Lujie (Lauren) Ma

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EDUCATION

Vanderbilt University, Peabody College

Master of Education in International Education Policy & Management

Nashville, TN

Expected May 2024

Relevant Courses: Embodied Cognition, Cognitive Science to the Classroom, Research Design and Data Analysis

Shanghai Normal University, Tianhua College

Bachelor of Education in Elementary Education

Shanghai, China

June 2022

Relevant Courses: Math Education, Methods of Mathematical Thinking, Mathematical Problem-solving Methods, Educational Internship, Educational Psychology, Psychology for Elementary School Students

RESEARCH EXPERIENCE

Educational Neuroscience Lab at East China Normal University

Research Assistant

Remote (Shanghai, China)

September 2023-Present

- Writing literature review about using educational neuroscience knowledge to support 3rd grade students learning geometry in math class;
- Discuss and design instructional activities based on neuroscience evidence with teachers at the experimental elementary school and experimental middle school;

Institute of Psychology and Behavior Science at Shanghai Jiao Tong University

Research Assistant

Shanghai, China

May 2023-August 2023

Imagery Types of Face and Objects

- Collected 44 full task state and resting state fMRI data, completed the scanning process, monitored data quality and recorded;
- Filtered 44 eligible subjects of fMRI from the result of 96 binocular rivalry behavioral experiments, concluded the pass rates of two behavioral programs, gathered potential problems and proposed possible solutions;
- Recruited 136 participants to fill out and submit the VVIQ questionnaires, contacted participants who fit the aim score range to participate in following behavioral experiments, scheduled 96 subjects and maximized efficiency of laboratory;
- Preprocessed the fMRI structural data to extract the brain;

Relationship between Imagination and Working Memory

- Led 8 fMRI full task state and resting state scanning of blind participants, monitored data quality and recorded;
- Documented a detail experiment records for laboratory future use, and taught other two colleagues operate process;
- Assisted and monitored 8 EEG experiments to test the visual stimulation of participant, ensured that blind participants in this experiment have no visual stimuli;

Spatial Navigation Ability of Aphantasias

- Measured spatial navigation test scores of 2 Aphantasias with VR tools, and tested the RQ scores of them with Wechsler Intelligence Scale;
- Evaluated the research design according to the participants' experience, diagnosed shortcomings in the initial experimental design, and discussed with the VR environment designer to refine the experiment.

PROFESSIONAL EXPERIENCE

Shanghai Ching Chu School

Intern Teacher

Shanghai, China

September 2021-May 2022

- Designed and implemented four interactive lesson plans in accordance with school curriculum standards;
- Motivated and managed 27 students, and provided them with behavioral guidelines during class;
- Supervised after-school activities and provided feedback to parents through close communication;
- Coordinated with teachers to prepare and manage after-school tutoring, and improved students' academic performance;

Shanghai Yixin Education & Training Co.

Tutor

Shanghai, China

January 2021-September 2021

- Provided 12-14 hours weekly tutoring to 4th and 5th grade students in small size classes;
- Evaluated students' learning styles; designed and provided appropriate techniques to maximize their understanding of the material, such as performance evaluation and hands-on activities;

Sunflower Community Children's Service Center of Jing'an District

Volunteer Teacher

Shanghai, China

October 2018-December 2019

- Tutored 10 students aged from 7 to 12 in mathematics and provided additional help after school;
- Adopted the differentiation approach to instructing students in mixed-grade mathematics classes;
- Assessed and analyzed students' studying progress and understanding of concepts before and after examinations.

CERTIFICATIONS & AWARDS

National Teacher Certificate Examination Certificate: Primary School Mathematics (2021)

Third Prize of the Second Yangtze River Delta Basic Teaching Skills Competition (2020)

SKILLS

Computer Skills: STATA, SPSS, Python (beginner), Microsoft Office Suite, Google Suite, Adobe Photoshop

Languages: Mandarin Chinese (Native), English (Proficient)