

Yin Ting, Lau

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Education

University of Birmingham, Birmingham, U.K.
BSc Human Neuroscience

2018-2022

Supervisor:

Professor Jonathan Lee

Research Experience

Research Centre for Language, Cognition, and Neuroscience, The Hong Kong Polytechnic University, Hong Kong.

Research Assistant (January 2023 – Present)

Assisting Professor William Shi-Yuan Wang and Dr. Manson Fong with the project “Quantification of Brain Age by Functional MRI Data: Complexity and Functional Connectivity” and different bilingual studies projects. The main duties of the job are designing experiments, data analysis and MRI data analysis. The advanced knowledge of Python and Linux is learnt from the project.

Department of Psychiatry, University of Hong Kong, Hong Kong.

Research Assistant (August 2022 — December 2022)

Assisting Dr. Sherry Chan with the different projects on patients with Schizophrenia. Clinical assessments, cognitive tests, and interviews are given to the patients. Data management, data analysis, and MRI preprocessing are the key tasks of the job.

Visual Experience Laboratory, University of Birmingham, UK.

Volunteer Research Assistant (March 2019 — November 2019)

Assisting Dr. Sara Asseconi with the EEG correlates cognitive training project. Conducting experiments, Participants recruitment and data analysis with Python are the key tasks of the volunteer.

Sleep Research Clinic and Laboratory, The University of Hong Kong, Hong Kong.

Research Internship (July 2019 — August 2019)

Assisting Dr. Shirley Li with the Sleep Deprivation Study, Insomnia and Depression Treatment Study, School-based Napping Study, Sleep Disturbances in ADHD and Sleep Duration Variability and Cognitive Function. Conducting experiments, data collecting, data entry and participants recruitment are the key tasks of the internship.

Skills

Software:	Microsoft Office Suite, SPSS, Jupyter Notebook, Anaconda Jupyter, R Studio, MATLAB, XCode, PBS (Portable Batch System)
Operating System:	Microsoft Windows, MacOS, Linux
Programming Language:	Python, R, MATLAB, Unix Scripting, JSON
Data Mining Tool:	NumPy, SciPy, Pandas, scikits-learn, TensorFlow (Machine Learning), statsmodels (Data Processing and Modelling), Seaborn, Matplotlib (Data Visualization)
Brain Image Processing Tools:	FreeSurfer, FSL, ANTs, SPM, AFNI, NiPype, NIPY
Neuroimaging:	MRI, EEG, ECG
Language:	Cantonese, English, Mandarin, Italian

Projects

MRI Study

Role: Research Assistant
PI: Professor Shi-Yuan Wang
Title: Quantification of Brain Age by Functional MRI Data: Complexity and Functional Connectivity
Skills: fMRI Data Preprocessing, Data Analysis

Clozapine Mortality Study

Role: Research Assistant
PI: Dr. Sherry Chan
Title: The Long-term Impact of Clozapine on Mortality, Hospitalization and Comorbidity in Patients with Schizophrenia
Skills: Data Management, Data Processing, Data Analysis, Data Visualization

Dissertation

Role: Principal Investigator
Supervisor: Professor Howard Bowman
Title: What Can We Search for Preconsciously?
Details: The main purpose of the project is to find out what classes of information the human brain can search for, what it cannot. Rapid Serial Visual Presentation (RSVP) was used to determine how long an arbitrary item in an RSVP stream remains in the brain when not a target.

Data Analysis Individual Project

Role: Principal Investigator
Title: Bitcoin Data Exploration, Linear Regression and Price Prediction
Skills: Data Processing, Data Modelling, Data Visualization, Machine Learning