

Zhiqian (Catherine) Fang

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EDUCATION

The University of Hong Kong, Hong Kong PhD Candidate in Psychiatry	Jul 2024 – Present
The University of Hong Kong, Hong Kong Master of Philosophy in Psychiatry Thesis: Application of Statistical Learning Methods to Predict Psychopathological Symptoms and Well-being in Young People	Mar 2023
Columbia University Mailman School of Public Health, New York, United States Master of Science in Biostatistics GPA: 3.5/4.0 Relevant Courses: Data Science; Relational Databases and SQL Programming; Statistical Computing with SAS	May 2020
Rutgers University, New Jersey, United States South China University of Technology (SCUT), Guangzhou, China (Joint Program) Bachelor of Science in Public Policy (Health and Environment) GPA: 3.82/4.0 Minor in Business Administration	May 2018
Honors and Awards: Dean's Honor List (2016 – 2018); National Endeavor Fellowship (2016)	

WORK EXPERIENCE

The University of Hong Kong, Department of Psychiatry, HK <i>Research Assistant</i> <ul style="list-style-type: none">Administered clinical and cognitive assessments and operated MRI scans to patients with first-episode schizophrenia and first-episode bipolar disorderConducted statistical analyses on antipsychotic utilization patterns and mortality rate among patients with psychotic disorders using population-based electronic health record database	Aug 2023 – June 2024
Columbia University Department of Psychiatry, NY <i>Data Analyst, LeeLab</i> Project: Examining the effects of a risk factor gene for Alzheimer's Disease (APOE e4) and its associated neuropathologies on neuropsychiatric symptoms <ul style="list-style-type: none">Preprocessed demographic, genetic, and neuropathology data from National Alzheimer's Coordinating Center collected since 2005Conducted mediation analysis with multiple mediators to examine the mediation role of APOE e4's associated neuropathologies on the causal pathway from APOE e4 to neuropsychiatric symptoms	Jan 2022 – July 2023
Columbia University Department of Psychiatry, NY <i>Research Assistant, LeeLab</i> Project: Testing the association between brain structure change and cognitive ability change over time <ul style="list-style-type: none">Manipulate and performed quality check using R on longitudinal data of brain structure and neural networkApply the latent change score model for examining the association and test the moderation by age, IQ, and education between latent variables	Jun 2019 – May 2020
New York State Psychiatric Institute, NY <i>Data Intern, Boricua Youth Study</i> <ul style="list-style-type: none">Harmonized variables between waves in a longitudinal study launched in 2001 for over 2,000 Boricua childrenIdentified inconsistencies in the fourth-wave dataset with over 3,000 records using SPSSCreated Dialogix information system codebook for a next-generation study of Environmental influences on Child Health Outcomes (ECHO) program	Feb 2019 – May 2020

SKILLS

Technical: R, Python, Mplus, SAS, SQL, SPSS, Microsoft Office Master 2013

Language: Mandarin (native), Cantonese (native), English (fluent)