

Muhan Yang

+1 604-727-0895 | muhan211@student.ubc.ca

Website: <https://muhanyang.shinyapps.io/quantpsych/>

EDUCATION

The University of British Columbia (UBC) 2021 - 2025 (Expected)
Honours Bachelor of Arts in Psychology, Minor in Data Science Vancouver, Canada
Overall GPA: 83.9/100 | Major GPA: 86.5/100 | Dean's List (2022-2023, 2023-2024)

Relevant Coursework

- PSYC 303 - Tests and Measurements
- PSYC 359 - Advanced Research Methods in Behavioural Sciences
- PSYC 417 - Applied Regression Analysis
- PSYC 546J - Multilevel Model (graduate course)
- PSYC 546Y - Structural Equation Model I (graduate course; self-learned via 2021W materials)
- STAT 201 - Statistical Inference for Data Science
- STAT 301 - Statistical Modelling for Data Science
- MATH 221 - Matrix Algebra
- DSCI 320 - Visualization for Data Science
- CPSC 330 - Applied Machine Learning
- CPSC 368 - Databases in Data Science (ongoing)

Fourth-Year Honours Thesis

Sept. 2024 - Present

Supervisor: Dr. Jason Rights

- **Title:** Level-specific standardized mean differences in multilevel models (MLM)

Third-Year Honours Thesis

Sept. 2023 - Apr. 2024

Supervisor: Dr. Catherine Ann Cameron

- **Title:** Development of academic dishonesty in childhood: Relationships between theory of mind, agreeableness, and prosocial behaviour on cheating

RESEARCH EXPERIENCES

UBC Structural Equation Modelling (SEM) Lab

Jan. 2024 - Present

Work-Learn Research Assistant

PI: Victoria Savalei

- Designing and leading the independent project examining Random Intercept Cross-Lagged Panel Model (RI-CLPM) power analysis via simulation: conducted a literature review on the RI-CLPM simulation and a report of extending the simulation analysis in Mulder (2023) to other parameters and conditions

The Rights Lab

Sept. 2023 - Present

Research Assistant + Honours Thesis Student

PI: Jason Rights

- Facilitating project examining the property of Intra-class Correlations (ICCs) in MLM, conducting literature review over 100+ articles to map out the current utilization and report standards of ICCs in empirical studies, and provided an empirical example of interpreting newly proposed ICCs
- Conducted literature review for the current advanced of R^2 adjustment methods for MLM, and proofread the manuscript

Child & Teen Studies Lab*Research Assistant + Honours Thesis Student*

Aug. 2023 - Jun. 2024

PI: Catherine Ann Cameron

- Entered and cleaned data in the Children's Integrity project, and mentored junior lab members to clean data using SPSS and R
- Managed parents contacting, study sessions scheduling, consent forms collection, and session video recordings on Globus

Social Health Lab*Research Assistant*

Sept. 2022 - Sept. 2023

PI: Frances Chen

- Conducted ~80 sessions of the Trier Social Stress Test (TSST) interview, parent re-consent, and medication record check-up and entry in Teen Studies project and TSST Simulated Online Interview project, including saliva sample collection
- Assisted graduate students with mock phone screen practice using DSM-V

PRESENTATIONS

Yang, M., Phan, K., Song, J., Chawla, T., Wilkinson, L., Duan, T.-Y., Dong, L. D., & Cameron, C. A. (2024, May 25th). *Theory of mind, agreeableness, and demographics in the development of children's academic dishonesty*. [Poster presentation]. Association for Psychological Science Annual Convention, San Francisco, CA, United States.

Yang, M. & Cameron, C. A. (2024, April 5th). *Development of rule violation in childhood: Psychosocial factors in academic cheating*. [Poster presentation]. 26th Annual UBC Psychology Undergraduate Research Conference, Vancouver, BC, Canada.

AWARDS & RECOGNITIONS

Work Learn International Undergraduate Research Award (WLIURA) *May - Aug. 2024*
\$8,500 awarded to international undergraduates to work full-time (35h/week) on research projects under faculty's supervision

Dean's List *2022 - 2024*
Awarded by UBC Faculty of Arts to undergraduates with a grade average of 85/100 (A) per year

Honourable Mention *Apr. 2024*
Awarded by youCode@UBC Hackathon to teams ranking directly subsequent top 3 winners

EXTRACURRICULAR ACTIVITY | WORK EXPERIENCE | COMMUNITY INVOLVEMENT

youCode@UBC 24-Hour Hackathon *Apr. 6-7, 2024*
Beginner Stream Hacker | UX/UI Designer *Vancouver, Canada*

- Implemented UX/UI design in the team of 4 by creating an interactive and functional prototype with a campus map, using Figma and Procreate
- Built a phone app for locating outdoor activities on campus map with reward features

Mood Psychology Mental Health Support Group UBC Branch *Jul. 2022 – May 2023*
Peer Support Mentor *Vancouver, Canada*

- Attained peer support skills and ethics through 5-week online peer support training
- Offered weekly 1-2h peer support service to mentees
- Actively discussed advanced counselling skills with supervisor and other mentors bimonthly

TOEFL Killer

Private 1-on-1 TOEFL Writing Tutor

Jul. – Aug. 2021

Beijing, China

- Reviewed 30+ pieces of student writing practice in MS Word with detailed feedback
- Lectured on English grammar systematically with common usage in writing

SKILLS

R Tools & Packages	Shiny, Rmarkdown, lavaan, semTools, simsem, lme4, psych, Tidyverse, ggplot2, dplyr
Python Tools & Packages	Pandas, Matplotlib, NumPy, scikit-learn, Altair, Natural Language Toolkit(NLTK), spaCy
Other Software & Tools	SPSS, Git, LaTeX, Jupyter, Figma, Qualtrics, Globus

Languages: Fluent in Mandarin & English | Conversational in Cantonese
Soft Skills: Literature Review | Academic Poster Design | UX/UI Design
Hobbies: Guzheng | Ukulele | Sudoku | Board Games | Music Arrangement