

Zhang Yifan (Jenny)

The University of Hong Kong
zyf2020@connect.hku.hk

Education

- Doctor's degree in Psychometrics** 2022-2026(expected)
The University of Hong Kong
Thesis title:
- Master's degree in Data Science** 2020-2022
The University of Hong Kong
Capstone project: Statistical Inference for Tensor Data
- Bachelor's degree in Information and Computing Science** 2016 - 2020
Northeastern University
Thesis title: Analysis of breast cancer prediction based on neural network

Publication

Peer-Reviewed Journal

- **Yifan Zhang** & Jinsong Chen (2023). Accommodating and extending various models for special effects within the generalized partially confirmatory factor analysis framework. Manuscript submitted for publication.

Peer-Reviewed Conference Presentations

- **Yifan Zhang** & Jinsong Chen (2023, March). Accommodating and extending various models for special effects within the generalized partially confirmatory factor analysis framework. Coordinated paper presented at the National Council on Measurement in Education, Virtual, Chicago, IL.
- **Yifan Zhang** & Jinsong Chen (2023, March). Improving recommender system with the partially confirmatory approach and psychological factors. Coordinated paper presented at the National Council on Measurement in Education, Virtual, Chicago, IL.
- **Yifan Zhang** & Jinsong Chen (2023, April). Accommodating and extending various models for special effects within the generalized partially confirmatory factor analysis framework. Poster presented at the National Council on Measurement in Education, Chicago, IL.

Awards

- Honorable Mention, COMAP(MCM) April 2019
- 3rd Prize, China Undergraduate Mathematical Contest in Modeling November 2018
- 3rd Prize, Mathematical Modeling Contest for College Students July 2018
- Successful Participant, COMAP(MCM) April 2018
- 2nd Prize, China Undergraduate Mathematical Contest in Modeling November 2017
- 1st Prize, Mathematical Modeling Contest for College Students July 2017
- 3rd Class Academic Scholarship, Northeastern University November 2017/2018/2019

Research Project

Artificial intelligence training camp - machine learning 2019
Leadership *Shenyang, China*

- Image Classification using deep learning.
- Used Python to construct convolutional neural network

Athletic Games Information Administration System 2019
Leadership *Shenyang, China*

- Used My Eclipse to design the website and realized basic functions of the interface.
- Applied SQL to design database and matched the relevant functions of the website.

Teaching

Statistical and Psychometric Analysis with R <i>Teaching Assistant</i>	<i>Fall Semester, 2023</i> <i>HKU</i>
Factor Analysis <i>Teaching Assistant</i>	<i>Fall Semester, 2023</i> <i>HKU</i>
Introduction to factor analysis and structural equation modeling <i>Teaching Assistant</i>	<i>Spring Semester, 2023</i> <i>HKU</i>
Introduction to statistical methods <i>Teaching Assistant</i>	<i>Fall Semester, 2022</i> <i>HKU</i>
Methods of research and enquiry <i>Teaching Assistant</i>	<i>Spring Semester, 2022</i> <i>HKU</i>

Work experience

The University of Hong Kong <i>Research Assistant</i>	<i>June - August, 2022</i> <i>Hong Kong, China</i>
<ul style="list-style-type: none"> • Enhance research methodology and psychometrics with learning-based latent variable modeling • Methodological developments to advance educational and psychological measurement with Bayesian learning 	
The University of Hong Kong <i>Research Assistant</i>	<i>June - August, 2021</i> <i>Hong Kong, China</i>
<ul style="list-style-type: none"> • Prepare course materials for structural equation modeling • Use Rmarkdown to convert code and text materials 	
Biden Consulting Company <i>Campus Representative</i>	<i>March - November, 2019</i> <i>Shenyang, China</i>
<ul style="list-style-type: none"> • Took the duties of brand and product promotion within campus. • Planned and organized lectures and public welfare activities. • Administered operate alumni association. • Campus excellent professional manager, 4 out of 100. 	
Manulife Financial Centre <i>Asset Management Intern</i>	<i>February, 2019</i> <i>Hong Kong, China</i>
<ul style="list-style-type: none"> • Analyzed the Asian market and the development trend for asset planning products. 	

- Tracked the dynamic state of financial service industry and its market, collected and collated information from multiple sources, wrote complete business proposal to support evidence for decision-making.
- Packed the funds, by different years, conducted real situational simulation, and made portfolio analysis as reference for corporate assets department.
- Best Team Award of The 2019 Manulife GP programme.

Technical skills

Programming Languages/Tools	Python, R, C, Matlab, SPSS, HTML, LATEX, RMarkdown
------------------------------------	--

Language proficiencies

Mandarin	Native
English	Fluent