

# Zhang Yifan (Jenny)

The University of Hong Kong  
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## Education

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**Ph.D. in Psychometrics** 2022-2026(expected)

*Faculty of Education, The University of Hong Kong*

*Thesis title:*

**M.S. in Data Science** 2020-2022

*Department of Statistics & Department of Computer Science, The University of Hong Kong*

*Capstone project: Statistical Inference for Tensor Data*

**B.S. in Information and Computing Science** 2016 - 2020

*Department of Mathematics, Northeastern University, China*

*Thesis title: Analysis of Breast Cancer Prediction Based on Neural Network*

## Publication

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### 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, 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, Chicago, IL.

## Awards

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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

Academic Scholarship, Northeastern University November 2017/2018/2019

## Research Project

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**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

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### Structural Equation Modeling I

Teaching Assistant

Spring Semester, 2024

HKU

### Quantitative Research Methods II

Teaching Assistant

Spring Semester, 2024

HKU

### Statistical and Psychometric Analysis with R

Teaching Assistant

Fall Semester, 2023

HKU

### Factor Analysis

Teaching Assistant

Fall Semester, 2023

HKU

### Introduction to factor analysis and structural equation modeling

Teaching Assistant

Spring Semester, 2023

HKU

### Introduction to statistical methods

Teaching Assistant

Fall Semester, 2022

HKU

### Methods of research and enquiry

Teaching Assistant

Spring Semester, 2022

HKU

## Working

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### The University of Hong Kong

RPG student coordinator

January - June, 2024

Hong Kong, China

- Serve as student representatives to the Organizing Committee of the Research Postgraduate Conference
- Organize and support academic and social activities for MPhil/PhD/EdD students

### The University of Hong Kong

Research Assistant I

June - August, 2022

Hong Kong, China

- 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

Research Assistant II

June - August, 2021

Hong Kong, China

- Prepare course materials for structural equation modeling
- Convert code and text materials using Rmarkdown

### Biden Consulting Company

Campus Representative

March - November, 2019

Shenyang, China

- Took the duties of brand and product promotion within campus.
- Planned and organized lectures and public welfare activities.
- Administrated operate alumni association.
- Campus excellent professional manager, 4 out of 100.

**Manulife Financial Centre***Asset Management Intern**February, 2019**Hong Kong, China*

- 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***

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**Programming Languages/Tools**Python, R, C, Matlab, SPSS, HTML, L<sup>A</sup>T<sub>E</sub>X, RMarkdown***Language proficiencies***

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<b>Mandarin</b>	Native
<b>English</b>	Fluent