

# Yingshi Huang

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## EDUCATION

### Beijing Normal University

Beijing, China

M.Ed. in Psychology GPA: 3.9/4.0

Sep. 2020 – Jun. 2023 (expected)

Thesis (in preparation): *A Cognitive Diagnosis Model for Insufficient Responses Detection*

Advisor: Prof. Ping Chen

### South China Normal University

Guangzhou, China

B.S. in Psychology GPA: 3.96/5.0

Sep. 2016 – Jun. 2020

Thesis (with honors): *Classification Accuracy and Consistency under Different Maximum Information Locations*

Advisor: Prof. Minqiang Zhang

## PUBLICATIONS

(\* correspondent author, + co-first author)

**Huang, Y.**, Ren, H., & Chen, P.\* (2022). Item selection methods with exposure and time control for computerized classification test. *British Journal of Mathematical and Statistical Psychology*, 00, 1–17. [\[doi\]](#) [2021 IF: 2.410]

Yuan, L., **Huang, Y.**, Li, S., & Chen, P.\* (accepted). Online calibration in multidimensional computerized adaptive testing with polytomously scored items. *Journal of Educational Measurement*. [2021 IF: 1.188]

Ren, H., **Huang, Y.**, & Chen, P.\* (2022). Types, characteristics and application of termination rules in computerized classification testing (in Chinese). *Advances in Psychological Science*, 30(5), 1168. [\[doi\]](#)

Lu, A.\*+, Deng, R.+, **Huang, Y.**+, Song, T., Shen, Y., Fan, Z., & Zhang, J. (2022). The roles of mobile app perceived usefulness and perceived ease of use in app-based Chinese and English learning flow and satisfaction. *Education and Information Technologies*, 1-22. [\[doi\]](#) [2021 IF: 3.666]

Ni, Y., Tein, J. Y., Zhang, M.\*, Zhen, F., Huang, F., **Huang, Y.**, ... & Mei, J. (2020). The need to belong: A parallel process latent growth curve model of late life negative affect and cognitive function. *Archives of gerontology and geriatrics*, 89, 104049. [\[doi\]](#) [2021 IF: 4.163]

**Huang, Y.**, Deng, R.+, Lu, A.\*, Li, Y., & He, J. (under review). How user perception affects app-based second language learning flow and satisfaction: a mediated moderating model and network analysis.

## CONFERENCE PRESENTATIONS

**Huang, Y.**, Zhang, T., & Chen, P. (2022, July). *Exploring the structure of speed in cognitive diagnostic models*. International Meeting of the Psychometric Society, Bologna, Italy.

Zhang, T., **Huang, Y.**, & Xin, T. (2022, July). *An analysis of adaptive learning recommendation based on reinforcement learning*. International Meeting of the Psychometric Society, Bologna, Italy.

- Huang, Y., Ren, H., & Chen, P.** (2022, April). *New item selection designs for computerized classification test*. National Council on Measurement in Education, San Diego, CA, Virtual Meeting.
- Huang, Y., Ren, H., & Chen, P.** (2021, October). *Stage adaptive and timed item selection methods for computerized classification test*. The 23rd National Academic Conference of Psychology, Inner Mongolia.
- Ren, H., **Huang, Y., & Chen, P.** (2021, October). *Who has the final say in computerized classification test: three types of termination rules*. The 23rd National Academic Conference of Psychology, Inner Mongolia.
- Ni, Y., **Huang, Y., & Zhang, M.** (2018, November). *Subtypes of longitudinal association between late life cognitive function and negative affect: a parallel progress growth mixture model*. The 21st National Academic Conference of Psychology, Beijing.

## FUNDED GRANTS

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|---|---|
| <p><b>2021 Independent Project (Grant No. BJZK-2020A2-20011).</b><br/> <i>Item Selection Methods for Computerized Classification Testing</i><br/>         Funded by Collaborative Innovation Center of Assessment for Basic Education Quality</p>                                       | <p><b>PI</b><br/>         2021 – 2022<br/>         ~\$1,000</p>           |
| <p><b>2020 National Natural Science Foundation of China (Grant No. 32071092).</b><br/> <i>Online Calibration in Computerized Adaptive Testing: New Challenges and Solutions</i><br/>         Funded by National Natural Science Foundation of China</p>                                 | <p><b>Participant</b><br/>         2021 – 2024<br/>         ~\$90,000</p> |
| <p><b>2019 Extracurricular Research Project (Grant No. 19XLGA01).</b><br/> <i>High Quality of Teacher-Student Relationships Promotes Mathematics Achievement of Junior High School Students: The Multiple Mediation Effect</i><br/>         Funded by South China Normal University</p> | <p><b>PI</b><br/>         2019 – 2020<br/>         ~\$500</p>             |
| <p><b>2018 Special Funds for Seed Breeding Program (Grant No. 18XLGA07).</b><br/> <i>Second Language Learning through Mobile Devices: The Effect of Perceived Usefulness, Perceived Ease of Use, and Flow Experience</i><br/>         Funded by South China Normal University</p>       | <p><b>CO-PI</b><br/>         2018 – 2019<br/>         ~\$500</p>          |

## RESEARCH AND TEACHING EXPERIENCE

- National Assessment Guangdong Sub-Center for Item Bank Construction** Guangzhou, China  
**Research Assistant** Sep. 2017 – Jun. 2020  
*Prof. Minqiang Zhang's lab studies the validity of new Verbal and Mathematics item formats, score reports system, and test equating in China's College Entrance Examination*
- Contributed to revising the Test Quality Analysis Report (Mathematics) of China's College Entrance Examination
  - Designed a study on how students' mathematics performance is affected by the quality of the teacher-student relationship, analyzed data from 3,997 students, and led a fund grant
  - Assisted with the development of questionnaires for the Police Office in Heyuan and helped with writing the survey report
  - Completed an honors thesis and assisted in supervising five undergraduates

**Guangdong Key Laboratory of Mental Health and Cognitive Science**  
**Research Assistant**

Guangzhou, China  
Oct. 2018 – May. 2019

*Prof. Aitao Lu's lab studies the mechanism of language acquisition and how human brains execute language processing*

- Designed and conducted studies investigating app-based second-language learning, especially for Chinese and English learners
- Collected 786 questionnaires and analyzed the data with latent profile analysis, hierarchical regression, structure equation model, and network analysis
- Co-project leader for a fund grant and a challenge cup project (Awarded a second prize), completed two papers with one published and one under review

**Beijing Normal University**

Beijing, China

**Teaching Assistant**

Sep. 2021 – Jan. 2022

*Adaptive testing and diagnostic adaptive assessment (graduate course; Instructor: Prof. Ping Chen)*

- Presented two lectures introducing R language
- Held weekly office hours and provided instant feedback for students' presentations
- Graded assigned homework and the final project

**Beijing Normal University**

Beijing, China

**Teaching Assistant**

Feb. 2021 – Jun. 2021

*Think and act like a psychometrician (undergraduate course; Instructor: Prof. Ping Chen)*

- Assisted in the development of the curriculum and the assignments
- Held weekly office hours and graded assigned homework
- Provided assistance with statistics and Visual Basic programming

## COMPUTER AND LANGUAGE SKILLS

**Analytical:** Proficient in R, Mplus, SPSS, HLM, latentGOLD, jamovi; Capable of Python and Conquest.

**Languages:** Chinese (native), English (fluent).

## SELECTED AWARDS AND HONORS

<b>First-class Academic Scholarship</b> , Beijing Normal University	2021
<b>Second Prize for Excellent Scientific Writing</b> , South China Normal University	2019
<b>Second-class Comprehensive Scholarship</b> , South China Normal University	2018
<b>Excellent New Students Award (Top 3%)</b> , South China Normal University	2016

## ADDITIONAL EXPERIENCE

**Internship:** Worked as a psychology teacher in Shenzhen Hongling Middle School, organized mental health assessment for 696 students, offered 25 courses, and provided psychological counselling to 36 students (Awarded as Excellent Team Leader, 2019).

**Volunteer Experience:** Devoted to supporting education in Wanzi Primary School of Meizhou, a remote county in southeast China (Awarded as Advanced Individual, 2017).

**Extracurricular Activities:** The Business Pioneering Camp (Vice Chairman, 2018 – 2019); Campus Ambassador for UC Browser of Alibaba Group (2017 – 2018).