Contact Information	California, United States +1 310 873 7956	yingshi@ucla.edu https://quantithinker-yingshi.github.io/	
Education	University of California, Los Angeles (UCLA), California, United StatesPh.D. in EducationSep. 2023 - Present• Research Interest: Latent space model; Network analysis; Time-series dataAdvisor: Prof. Minjeong Jeon		
	<ul> <li>Beijing Normal University, Beijing, China</li> <li>M.A. in Psychology</li> <li>Thesis: A Cognitive Diagnosis Model for Insufficient Resp</li> <li>Advisor: Prof. Ping Chen</li> </ul>	Sep. 2020 – Jun. 2023 onses Detection	
	<ul> <li>South China Normal University, Guangzhou, China</li> <li>B.S. in Psychology</li> <li>Thesis (with honors): <i>Classification Accuracy and Consist Locations</i></li> <li>Advisor: Prof. Minqiang Zhang</li> </ul>	Sep. 2016 – Jun. 2020 tency under Different Maximum Information	
PUBLICATIONS	(* correspondent author, + co-first author) Educational and Psychological Measurement		
	1. Chen, P.*, Dai, Y., <b>Huang, Y.</b> (2023). Test mode effect: Sources, detection, and applications (in Chinese). <i>Advances in Psychological Science</i> , <i>31</i> (10), 1966–1980. doi: 10.3724/SPJ.1042.2023.01966		
	<ol> <li>Yuan, L., Huang, Y., Li, S., &amp; Chen, P.* (2023). Online calibration in multidimensional computerized adaptive testing with polytomously scored items. <i>Journal of Educational Measurement</i>, 60(3), 476-500. doi: 10.1111/jedm.12353.</li> </ol>		
	3. <b>Huang, Y.</b> , Ren, H., & Chen, P.* (2023). Item selection methods with exposure and time control for computerized classification test. <i>British Journal of Mathematical and Statistical Psychology</i> , <i>76</i> , 52–68. doi: 10.1111/bmsp.12281.		
	<ol> <li>Ren, H., Huang, Y., &amp; Chen, P.* (2022). Types, characteristics and application of termination rules in computerized classification testing (in Chinese). <i>Advances in Psychological Science</i>, 30(5), 1168. doi: 10.3724/SPJ.1042.2022.01168.</li> </ol>		
	<ol> <li>Sun, X., Huang, Y., &amp; Song, N.* (under review) Estimating the Q-matrix for cognitive diag- nostic models: Based on partial known q-entries.</li> </ol>		
	6. Yuan, L., <b>Huang, Y.</b> , & Chen, P.* (under review) Online calibration for multidimensional CAT with polytomously scored items: A neural network based approach.		
	Substantive Topics		
	<ol> <li>Lu, A.*+, Deng, R.+, Huang, Y.+, Song, T., Shen, Y., Fan, Z., &amp; 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. <i>Education and Information Technologies</i>, 1-22. doi: 10.1007/s10639- 022-11036-1.</li> </ol>		
	<ol> <li>Ni, Y., Tein, J. Y., Zhang, M.*, Zhen, F., Huang, F., Huang, Y., Yao, Y., &amp; Mei, J. (2020). The need to belong: A parallel process latent growth curve model of late life negative affect and cogni- tive function. <i>Archives of Gerontology and Geriatrics</i>, 89, 104049. doi: 10.1016/j.archger.2020.104049.</li> </ol>		

Select Conference Presentations	1. <b>Huang, Y.</b> , Wang, S., Pan, Y., Lu, X., & Chen, P. (2024, April) <i>A motivation-based cognitive diagnostic model for insufficient responses detection</i> . Talk presented at the Annual Meeting of the National Council on Measurement in Education, Philadelphia, PA.	
	2. Yuan, L., <b>Huang, Y.</b> , & Chen, P. (2023, July). <i>Online calibration for P-MCAT: A neural network based approach</i> . Talk presented at the International Meeting of the Psychometric Society, College Park, Maryland.	
	3. <b>Huang, Y.</b> , Zhang, T., & Chen, P. (2022, July). <i>Exploring the structure of speed in cognitive diagnostic models</i> . Poster presented at the International Meeting of the Psychometric Society, Bologna, Italy.	
	4. Zhang, T., <b>Huang, Y.</b> , & Xin, T. (2022, July). <i>An analysis of adaptive learning recommendation based on reinforcement learning</i> . Poster presented at the International Meeting of the Psychometric Society, Bologna, Italy.	
	<ol> <li>Huang, Y., Ren, H., &amp; Chen, P. (2022, April). New item selection designs for computerized classifi- cation test. Flash Talk presented at the Annual Meeting of the National Council on Measure- ment in Education, San Diego, CA, Virtual Meeting.</li> </ol>	
Select Funded Grants	2021 Independent Project (Grant No. BJZK-2020A2-20011).PIItem Selection Methods for Computerized Classification Testing2021 – 2022Funded by Collaborative Innovation Center of Assessment for Basic Education Quality\$1,000	
	2020 National Natural Science Foundation of China (Grant No. 32071092).ParticipantOnline Calibration in Computerized Adaptive Testing: New Challenges and Solutions2021 – 2024Funded by National Natural Science Foundation of China\$90,000	
	2019 Extracurricular Research Project (Grant No. 19XLGA01).PIHigh Quality of Teacher-Student Relationships Promotes Mathematics Achievement of Junior High SchoolStudents: The Multiple Mediation EffectStudents: The Multiple Mediation Effect2019 – 2020Funded by South China Normal University\$500	
	2018 Special Funds for Seed Breeding Program (Grant No. 18XLGA07).Co-PISecond Language Learning through Mobile Devices: The Effect of Perceived Usefulness, Perceived Ease of Use, and Flow Experience2018 – 2019Funded by South China Normal University\$500	
Research Experience	Jeon lab, Los Angeles, United StatesGraduate Student ResearcherDec. 2023 – PresentProf. Minjeong Jeon's lab centers on developing, applying, and estimating various latent variablemodels for studying measurement and growth• analyzing the NIH-supported annual mHealth Training project with TERGMs• developing longitudinal latent process model with multiple learning targets	
	National Assessment Center for Key Technologies, Beijing, China         Research Assistant       Sep. 2020 – Jun. 2023         Prof. Ping Chen's lab focuses on building and developing more effective and efficient algorithms for parameter estimation and adaptive testing         • Assisted in writing grant proposals and revising three graduates' theses         • Designed and conducted studies introducing new item selection methods, online calibration designs, and a motivation-based cognitive diagnosis model         • Helped manage the pretesting of items for the National Assessment	
	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, the

score reports system, and test equating in China's College Entrance Examination

- Contributed to the revision of the Test Quality Analysis Report (Mathematics) of China's College **Entrance Examination**
- Assisted with the implementation of the Guangzhou Sunshine education evaluation project and helped write the survey report
- 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 funded grant

Guangdong Key Laboratory of Mental Health and Cognitive Science, Guangzhou, China Data Analysis Research Assistant 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, structural equation modeling, and network analysis TEACHING Beijing Normal University, Beijing, China **EXPERIENCE** Teaching Assistant Sep. 2021 – Jan. 2022 Adaptive testing and diagnostic adaptive assessment (graduate course) • Presented two lectures that introduced R language to 40 students Held weekly office hours and provided instant feedback on students' presentations Beijing Normal University, Beijing, China Teaching Assistant Feb. 2021 – Jun. 2021 Think and act like a psychometrician (undergraduate course) • Assisted in the development of the curriculum and assignments Provided assistance with statistics and Visual Basic programming • Analytical: Proficient in R, Mplus, SPSS, HLM, latentGOLD; Capable of Python and Conquest • Design: Photoshop, HTML, LATEX, Unity SELECT HONORS Gordon & Olga Smith Scholarship, UCLA 2023 AND AWARDS 2023 Graduate Dean's Scholar Award, UCLA 2023 Outstanding Graduates of Beijing, Beijing Municipal Education Commission Outstanding Graduates, Beijing Normal University 2023 National Scholarship, Minister of Education of China 2022 First-class Academic Scholarship, Beijing Normal University 2021 Second-class Comprehensive Scholarship, South China Normal University 2017 - 2018 2019 **ADMINISTRATIVE** Team Leader & Psychology Teacher, Shenzhen Hongling Middle School AND OTHER Organized mental health assessment for 696 students, taught 25 courses, and provided psycholog-**EXPERIENCE** ical counselling to 36 students (Awarded as Excellent Team Leader) Vice Chairman, The Business Pioneering Camp 2018 - 2019Planned and organized business competitions, trained new members, and managed the budget (Awarded as Outstanding Student Leader) **Reviewer Experience:** American Educational Research Association (AERA) Annual Meeting 2024 Aug. 2023

SKILLS

## **Volunteer Experience:**

Devoted to supporting education at the Wanzi Primary School in Meizhou, an undeveloped county in Southeast China (Awarded as Advanced Individual) [Program Web] Aug. 2017

## Workshop:

Machine Learning, Natural Language Processing, and their Application in Educational Assessment (Virtual), University of Maryland Nov. 2022