# Fu Chen

Curriculum Vitae

1022, Faculty of Education (E33)

University of Macau
Avenida da Universidade
Taipa, Macau
China
☎ +853 8822 8787

□ +853 8822 2402
□ fuchen@um.edu.mo
□ www.fuchen.me
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## Education

2017–2021 Ph.D., Measurement, Evaluation, and Data Science, University of Alberta.

Department of Educational Psychology

Thesis: Deep Collaborative Filtering for Enhanced Learning Outcome Modeling

**Supervisor**: Dr. Ying Cui

2014–2017 M.Ed., Educational Measurement, Beijing Normal University.

Faculty of Psychology

**Thesis**: Model Fit Evaluation of Hierarchical Diagnostic Classification Models with  $M_2$ 

Supervisor: Dr. Tao Xin

2010–2014 B.S., Psychology, Beijing Normal University.

School of Psychology

### Positions

09/2021 - Assistant Professor, University of Macau.

present Faculty of Education

## **Research Interests**

Educational Data Mining

Learning Analytics

Computer-Based Assessments for Learning

Data Science in Education

# Scholarships/Awards/Grants

#### **Scholarships**

2020 Alberta Innovates Graduate Student Scholarship,  $CA$31,000 \times 2$ .

- Alberta Innovates
- The scholarship is a full scholarship for graduate students at three Alberta universities to undertake full-time research in the areas of Information and Communications Technology (ICT), Nanotechnology, and Omics.

### 2020 Alberta Graduate Excellence Scholarship, CA\$12,000.

- University of Alberta
- The scholarship recognizes and incents the best and the brightest students pursuing graduate studies in Alberta.

# 2020 Chinese Government Award for Outstanding Graduate Students Studying Abroad, *US\$*6,000.

- China Scholarship Council
- The scholarship is considered the highest award given by Chinese government to graduate students studying outside China.

# 2018 Professor Mian Muhammad Afzal International Graduate Scholarship in Education, *CA\$*1,000.

- University of Alberta
- The scholarship recognizes a graduate student with superior academic achievement annually in the Faculty of Education.

## 2017 University of Alberta Doctoral Recruitment Scholarship, CA\$5,000.

- University of Alberta
- The scholarship recognizes superior students at the doctoral level who have the potential to contribute to the University of Alberta's community and research.

## 2016 China National Scholarship, CNY 20, 000.

- o Ministry of Education, China
- The scholarship recognizes the top 3% of master's students at Beijing Normal University (BNU) annually. It is the most prestigious scholarship operated by the central government of China.

#### 2016 Liyun Rank 1 Graduate Scholarship, CNY 5,000.

- Beijing Normal University
- The scholarship recognizes five outstanding graduate students at BNU every two years.

#### 2016 Huawei Graduate Scholarship, CNY 6, 000.

- Huawei Technologies Co., Ltd.
- The scholarship recognizes six outstanding graduate students at BNU annually.

#### 2015 Graduate Rank 2 Specialty Scholarship, CNY 10,000.

Beijing Normal University

#### 2014 Graduate Rank 1 Freshmen Scholarship, CNY 12,000.

Beijing Normal University

## 2013 Undergraduate Rank 2 Specialty Scholarship, CNY 1, 500.

Beijing Normal University

## **Awards and Honors**

#### 2017 Beijing Normal University Honor of Outstanding Graduates, CNY 1,000.

- Beijing Normal University
- $\circ$  The award recognizes the top 10% of 1,527 graduates with a master's degree at BNU in 2017

- 2013, 2014 Third Prize, the Jingshi-cup Extracurricular and Academic Competition.
  - Beijing Normal University
  - The competition recognizes students' outstanding papers and technological works annually.
  - 2014 Outstanding Project Award, CNY 1,000.
    - Beijing Normal University
    - This award recognizes the top 20% of student-led projects funded by the plan of Beijing college students' scientific research and entrepreneurial action.
  - 2013 Outstanding Project Award, CNY 1,000.
    - Beijing Normal University
    - This award recognizes the top 20% of student-led projects funded by the scientific research foundation for undergraduates of Beijing Normal University.
- 2015, 2016 Outstanding Teaching Assistant Award, CNY 1,000 each year.
  - Beijing Normal University
- 2017, 2018, Departmental Research Paper Award, CNY 50,000 in total.
  - 2019 Beijing Normal University
- 2016, 2017 Outstanding Graduate Student Paper Award, CNY 15,000 in total.
  - Beijing Normal University

#### **Current Research Grants**

- 2021–2023 **Dean's Incentive Fund**, *MOP* 20,000.
  - University of Macau

#### **Previous Research Grants**

- 2013 Plan of Beijing College Students' Scientific Research and Entrepreneurial Action Grant, CNY~8,000.
  - Beijing Normal University
- 2012 Grant of Scientific Research Foundation for Undergraduates at Beijing Normal University,  $CNY\ 2,000$ .
  - Beijing Normal University

#### **Conference Travel Grants and Awards**

- 2020 Myer Horowitz Graduate Student Travel Award, CA\$500.
  - o Faculty of Education, University of Alberta
- 2017 **2017** Annual Meeting of the National Council on Measurement in Education, CNY~20,000.
  - Beijing Normal University

#### **Publications**

**Referred Journal Articles** 

- [19] Chen, F., Sakyi, A., & Cui, Y. (2021). Linking student, home, and school factors to reading achievement: The mediating role of reading self-efficacy. Educational Psychology. https://doi.org/10.1080/01443410.2021.1953445 (SSCI-IF: 2.903, Ranking: 88/264; Scopus-CiteScore: 4.9, Rank: 98/1319)
- [18] Shin, J., **Chen, F.**, Lu, C., & Bulut, O. (2021). Analyzing students' performance in computerized formative assessments to optimize teacher's test administration decisions using deep learning frameworks. *Journal of Computers in Education*. https://doi.org/10.1007/s40692-021-00196-7 (**ESCI**; **Scopus**-CiteScore: 2.7, Rank: 324/1319)
- [17] **Chen, F.**, & Cui, Y. (2020). LogCF: Deep collaborative filtering with process data for enhanced learning outcome modeling. *Journal of Educational Data Mining*, 12(4), 66–99. https://doi.org/10.5281/zenodo.4399685 (one of the highest quality journals in the field)
- [16] Chen, F., Cui, Y., & Chu, M-W. (2020). Utilizing game analytics to inform and validate digital game-based assessment with evidence-centered game design: A case study. *International Journal of Artificial Intelligence in Education*, 30, 481–503. https://doi.org/10.1007/s40593-020-00202-6 (ESCI; Scopus-CiteScore: 8.1, Rank: 19/1319)
- [15] **Chen, F.**, & Cui, Y. (2020). Utilizing student time series behaviour in learning management systems for early prediction of course performance. *Journal of Learning Analytics*, 7(2), 1–17. https://doi.org/10.18608/jla.2020.72.1 (**ESCI**; **Scopus**-CiteScore: 3.4, Rank: 196/1319)
- [14] Cui, Y., **Chen, F.**, & Shiri, A. (2020). Scale up predictive models for early detection of at-risk students: A feasibility study. *Information and Learning Sciences*, 121(3/4), 97–116. https://doi.org/10.1108/ILS-05-2019-0041 (**ESCI**; **Scopus**-CiteScore: 1.8, Rank: 73/235)
- [13] **Chen, F.**, & Cui, Y. (2020). Investigating the relation of perceived teacher unfairness to science achievement by hierarchical linear modeling in 52 countries and economies. *Educational Psychology, 40*(3), 273–295. https://doi.org/10.1080/01443410. 2019.1652248 (**SSCI**-IF: 2.903, Ranking: 88/264; **Scopus**-CiteScore: 4.9, Rank: 98/1319)
- [12] **Chen, F.**, Yang, H., Bulut, O., Cui, Y., & Xin, T. (2019). Examining the relation of personality factors to substance use disorder by explanatory item response modeling of DSM-5 symptoms. *PLoS ONE*, *14*(6), e0217630. https://doi.org/10.1371/journal.pone.0217630 (**SCIE**-IF: 2.74, Rank: 27/71; **Scopus**-CiteScore: 5.2, Rank: 10/111)
- [11] Cui, Y., Chen, F., Shiri, A., & Fan, Y. (2019). Predictive analytic models of student success in higher education: A review of methodology. *Information and Learning Sciences*, 120(3/4), 208–227. https://doi.org/10.1108/ILS-10-2018-0104 (ESCI; Scopus-CiteScore: 1.7, Rank: 66/227)

- [10] Cui, Y., Chu, M-W., & **Chen, F.** (2019). Analyzing student process data in game-based assessments with Bayesian knowledge tracing and dynamic Bayesian network. *Journal of Educational Data Mining*, 11(1), 80–100. https://doi.org/10.5281/zenodo.3554751 (one of the highest quality journals in the field)
- [9] Yang, H., Chen, F., Liu, X., & Xin, T. (2019). An item response theory analysis of DSM-5 heroin use disorder in a clinical sample of Chinese adolescents. Frontiers in Psychology. https://doi.org/10.3389/fpsyg.2019.02209 (SSCI-IF: 2.067, Rank: 45/138; Scopus-CiteScore: 3.2, Rank: 54/204)
- [8] Chen, F., Liu, Y., Xin, T., & Cui, Y. (2018). Applying the  $M_2$  statistic to evaluate the fit of diagnostic classification models in the presence of attribute hierarchies. Frontiers in Psychology. https://doi.org/10.3389/fpsyg.2018.01875 (SSCIIF: 2.129, Rank: 40/137; Scopus-CiteScore: 3.0, Rank: 58/199)
- [7] Chen, F., Yan, Y., & Xin, T. (2017). Developing a learning progression for number sense based on the rule space model in China. *Educational Psychology*, 37, 128–144. https://doi.org/10.1080/01443410.2016.1239817 (SSCI-IF: 1.344, Rank: 118/239; Scopus-CiteScore: 3.8, Rank: 84/1024)
- [6] Chen, F., Zhang, S., Guo, Y., & Xin, T. (2017). Applying the rule space model to develop a learning progression for thermochemistry. Research in Science Education, 47, 1357–1378. https://doi.org/10.1007/s11165-016-9553-7 (SSCI-IF: 1.568, Rank: 96/239; Scopus-CiteScore: 2.6, Rank: 197/1024)
- [5] Zhang, S., Du, J., Chen, P., Xin, T., & Chen, F. (2017). Using procedure based on item response theory to evaluate classification consistency indices in the practice of large-scale assessment. Frontiers in Psychology. https://doi.org/10.3389/ fpsyg.2017.01676 (SSCI-IF: 2.089, Rank: 39/135; Scopus-CiteScore: 3.4, Rank: 51/191)
- [4] Ouyang, X., Xin, T., & Chen, F. (2016). Construct validity of the children's coping strategies scale (CCSS): A bifactor model approach. *Psychological Reports*, 118, 199–218. https://doi.org/10.1177/0033294116628362 (SSCI-IF: 0.629, Rank: 98/129; Scopus-CiteScore: 1.1, Rank: 115/186)
- [3] Chen, F., Xin, T., Liu, Y., Liu, T., & Tian, W. (2016). Model-data fit test methods and statistics for cognitive diagnostic models. *Advances in Psychological Sciences*, 24, 1946–1960. https://doi.org/10.3724/SP.J.1042.2016.01946 (CSSCI, in Chinese)
- [2] Gao, Y., Chen, F., Xin, T., Zhan, P., & Jiang Y. (2017). Applying psychometric models in learning progressions studies: Theory, method and breakthrough. Advances in Psychological Sciences, 25, 1623–1630. https://doi.org/10.3724/SP.J.1042.2017.01623 (CSSCI, in Chinese)

[1] Xu, J., Zhou, H., Li, W., **Chen, F.**, & Zhang, W. (2014). Interviewer's rating and influencing factors in structural interviews. *Advances in Psychological Sciences*, 22, 357–368. https://doi.org/10.3724/SP.J.1042.2014.00357 (**CSSCI**, in Chinese)

#### **Manuscripts Under Review**

- [3] **Chen, F.**, Sakyi, A., & Cui, Y. (under review). Identifying key contextual factors of top performers in digital reading through a machine learning approach. Manuscript submitted for publication.
- [2] Gao, Y., Cui, Y., Bulut, O., Zhai, X., & **Chen, F.**. (under review). Examining adults' web navigation patterns in multi-layered hypertext environments. Manuscript submitted for publication.
- [1] Zhao, J., Jia, X., & **Chen, F.** (under review). The development and validation of the doctoral student identity scale. Manuscript submitted for publication.

## **Manuscripts in Preparation**

- [4] **Chen, F.**, Lu, C., & Cui, Y. (in preparation). Interpretable modeling of process data: An attentive approach.
- [3] **Chen, F.**, & Cui, Y. (in preparation). SDCF: Sequential deep collaborative filtering for enhanced learning outcome modeling.
- [2] **Chen, F.**, & Cui, Y. (in preparation). Enhanced learning outcome modeling of learner process and product data with sequential deep collaborative filtering.
- [1] Chu, M-W., Shojaee, M., Hachem, M., **Chen, F.**, & Cui, Y. (in preparation). Types of validity evidence needed to support digital game-based assessment competency outcome claims.

## **Book Chapters in Preparation**

- [2] **Chen, F.**, & Lu, C. (in preparation). Learner modeling in digital learning systems. In F. Ouyang, P. Jiao, B. M. McLaren, & A. H. Alavi (Eds.), *Artificial intelligence in STEM education: The paradigmatic shifts in research, education, and technology* (pp. pages of chapter). Auerbach/CRC Press.
- [1] Cui, Y., & **Chen, F.** (in preparation). Contextual factors of strategy use in solving non-routine problems: A multilevel modelling analysis. In M. S. Khine (Ed.), *Methodology for multilevel modeling in educational research: Concepts and applications* (pp. pages of chapter).

## **Conference Presentations**

Referred Conference Paper/Poster Presentations

- [12] Chen, F., Sakyi, A., & Cui, Y. (2020, April). Identifying influential contextual factors of online reading literacy through a machine learning approach [Poster Session]. Annual Meeting of the American Educational Research Association, San Francisco, CA, United States. http://tinyurl.com/qq724ky (Conference Canceled due to COVID-19).
- [11] **Chen, F.**, Guo, Q., Cui, Y., & Chu, M-W. (2020, April). *Utilizing game analytics to inform digital game-based assessment design*. Annual Meeting of the National Council on Measurement in Education (Symposium Canceled due to COVID-19).
- [10] Chen, F., & Cui, Y. (2020, September). Predictive analytics of temporal behavior to automate formative feedback on course performance [Poster Session]. Annual Meeting of the National Council on Measurement in Education (Online Presentation due to COVID-19).
  - [9] Cui, Y., Chu, M-W., Chen, F., & Guo, Q. (2020, April). Analyzing student process data with Bayesian knowledge tracing and dynamic Bayesian network. Annual Meeting of the National Council on Measurement in Education (Symposium Canceled due to COVID-19).
  - [8] Chu, M-W., Cui, Y., Shojaee, M., Hachem, M., Guo, Q., & **Chen, F.** (2020, April). Validity of process-based competency outcome claims using think-a-loud data and evidence-trace files. Annual Meeting of the National Council on Measurement in Education (Symposium Canceled due to COVID-19).
  - [7] Guo, Q., Chen, F., Chu, M-W., & Cui, Y. (2020, April). Detection of aberrant response patterns using discrete variational autoencoder. 2020 Annual Meeting of the National Council on Measurement in Education (Symposium Canceled due to COVID-19).
  - [6] Gao, Y., **Chen, F.**, & Cui, Y. (2020, September). Examining relation of information and communication technology to collaborative problem solving by hierarchical linear modeling. Annual Meeting of the National Council on Measurement in Education (Online Presentation due to COVID-19).
- [5] Shin, J., Chen, F., Lu, C., & Bulut, O. (2020, September). Automating test administration decisions in computerized formative assessment. Annual Meeting of the National Council on Measurement in Education (Online Presentation due to COVID-19).
- [4] Carlson, E., Kapasi, A., **Chen, F.**, Pei, J., Cui, Y., Anderson, T., & Mela, M. (2018, September). *Prenatal alcohol exposure and its relation to intelligence, executive functions, and antisocial and prosocial outcomes.* Paper presented at the European Conference on Fetal Alcohol Spectrum Disorders 2018, Berlin, German.
- [3] Chen, F., Liu, Y., & Xin, T. (2017, April). Applying  $M_2$  statistic to evaluate the fit of hierarchical diagnostic classification models. Paper presented at the 2017 Annual Meeting of the National Council on Measurement in Education, San Antonio, TX.

- [2] **Chen, F.**, Xin, T., & Guo, Y. (2015, July). Applying the rule space model to develop a learning progression of thermochemistry. Paper presented at the 80th Annual Meeting of the Psychometric Society, Beijing, China.
- [1] Li, W., Zhang, W., **Chen, F.**, & Xu, J. (2013, November). *The effects of interviewees' nonverbal clues on interviewers' ratings*. Paper presented at the 16th National Academic Congress of Psychology, Nanjing, China. (in Chinese)

## **Local Presentations: Knowledge Mobilization**

- [3] Cui, Y., & **Chen, F.** (2021, March). Early detection of at-risk students using predictive learning analytics. Presented at the CanAm Online Symposium in Educational Research Methods (online presentation; two authors jointly presented).
- [2] **Chen, F.** (2019, October). *Influential factors contributing to students' mathematics achievement (PISA 2012): A comparison between Alberta and Quebec.* Poster presented at the 2019 Alberta Research Network Meeting, Edmonton, AB.
- [1] Cui, Y., Shiri, A., & **Chen, F.** (2019, May). Enhancing student success through predictive learning analytics. Paper presented at the 2019 Festival of Teaching and Learning at University of Alberta, Edmonton, AB.

#### **Conference Presentations Under Review**

- [2] Cui, Y., Cutumisu, M., & **Chen, F.**, Lutsyk, A., Leighton, J. P. (under review). *A digital performance assessment for teaching and measuring critical thinking in the domain of data literacy*. Paper submitted to the Annual Meeting of the American Educational Research Association, San Diego, CA, United States.
- [1] **Chen, F.**, Cui, Y., & Lutsyk, A. (under review). *Validating a novel data literacy assessment: Psychometric and eye-tracking analyses.* Paper submitted to the Annual Meeting of the National Council on Measurement in Education, San Diego, CA, United States.

# Research Experience

- 11/2020- Research Assistant, University of Alberta.
- 08/2021 Project: Validity Evidence for the Use of CASPer in Admissions Decisions and Prediction of Performance Within an Occupational Therapy Program
  - o PI: Dr. Mary Roduta Roberts
  - Experience: Analyzed student admission data with non-linear optimization and regress tress to identify the most important admission metrics for student future academic performance.
- 05/2019— **Research Assistant**, *University of Alberta*.
- 08/2021 Project: Digital Performance-Based Learning and Assessment System for Teaching Data Literacy
  - OPI: Dr. Ying Cui
  - **Experience**: Did an overall literature search of over 200 articles on data literacy; developed a digital performance-based assessment measuring undergraduates' skills of data collection, data evaluation and critical thinking on data literacy.

- 05/2018- **Research Assistant**, *University of Calgary*.
- 05/2020 Project: Students' Performance on Weather Game-Based Assessment
  - o PI: Drs. Man-Wai Chu & Ying Cui
  - **Experience**: Cleaned students' structured assessment data and log file data, did data analysis with Bayesian knowledge tracing, dynamic Bayesian networks and machine learning techniques, and helped write up two research articles.
- 09/2017- Research Assistant, University of Alberta.
- 08/2019 Project: Enhancing Student Success through Predictive Learning Analytics: Expanding the Learning Analytic Application at the University of Alberta
  - PI: Dr. Ying Cui
  - **Experience**: As a leading group member, did an overall literature review of over 100 articles, participated in data collection and data cleaning, analyzed the log file data with machine learning techniques, helped write up three research articles.
- 08/2018 **Research Assistant**, *University of Alberta*.
  - Project: Prenatal Alcohol Exposure and Its Relation to Intelligence, Executive Functions, and Antisocial and Prosocial Outcomes
  - o PI: Dr. Jacqueline Pei
  - **Experience**: Provided the team with statistical expertise on path analysis, did the data analysis and prepared results for presentation.
- 10/2017 **Research Assistant**, *University of Calgary*.
- 06/2018 Project: Preparing Pre-Service Teachers to Meet Individual Needs in the Classroom
  - o PI: Dr. Man-Wai Chu
  - **Experience**: Provided the team with statistical expertise on structural equation modeling, conducted the data analysis and prepared results for a research paper.
- 09/2014- **Research Assistant**, Beijing Normal University.
- 06/2017 Project: Developing Achievement Standards for Basic Education in China
  - o PI: Dr. Tao Xin
  - **Experience**: Participated in two studies on learning progression, in charge of literature review, data analysis and research article write-up; helped the PI prepare materials for presentation.
- 09/2014– **Research Assistant**, Beijing Normal University.
- 06/2017 Project: Item Response Theory and Cognitive Diagnosis: Perspective of Integration
  - o PI: Dr. Tao Xin
  - **Experience**: As the PI of a study on model-data fit of cognitive diagnosis, in charge of literature review, data analysis and research article write-up.
- 09/2012- **Research Assistant**, Beijing Normal University.
- 01/2013 Project: Competency Modeling for HR Employees in Educational System
  - o PI: Dr. Jianping Xu
  - **Experience**: As a main group member, constructed the competency model for the HR employees in the educational system via literature review, structured and semi-structured interview and surveys.
- 03/2013– **Principal Investigator**, Beijing Normal University.
- 04/2014 Project: Effects of Interviewers' and Applicants' Nonverbal Information on the Ratings in Structured Interview
  - **Experience**: In charge of the design, execution and management of the project; conducted a rigidly manipulated simulated experiment and recruited over 150 participants.

- 02/2012- **Principal Investigator**, Beijing Normal University.
- 03/2013 Project: Effects of Continuous Gain or Loss in Prior Decision-makings on the Decision Maker's Behavior Under the Simulated Realistic Risk Situation
  - **Experience**: In charge of the design, execution and management of the project; developed a new software for investing stocks; recruited over 120 participants and conducted an experiment based on the stock investment procedure.

## **Teaching Experience**

- 06/2021 Guest Lecturer, University of Macau.
  - Title: Supervised learning for predictive learning analytics
  - **Role**: Gave a one-hour talk on supervised machine learning and predictive learning analytics in the course "Assessment and Evaluation of Educational Big Data".
- Winter 2021, Lab Instructor & Teaching Assistant, University of Alberta.

Fall o EDPY 505: Quantitative Methods I

2018/19/20 • **Role**: Prepared materials for each lab, taught the lab session, answered students' questions, helped students' course projects, and collaborated with Dr. Cui to help make assessments.

Winter Lab Instructor & Teaching Assistant, University of Alberta.

2019/20/21 • EDPY 605: Quantitative Methods II

- **Role**: Prepared materials for each lab, taught the lab session, answered students' questions, helped students' course projects, and collaborated with Dr. Cui to help make assessments.
- 06/2021 **Guest Lecturer**, *University of Alberta*.
  - o EDPY 597: Educational Data Mining I
  - Role: Taught a lab session on educational data mining and predictive modeling with R.
- Spring 2016 **Teaching Assistant**, Beijing Normal University.
  - Advanced Item Response Theory
  - Role: Answered students' questions and collaborated with the instructor to help make assessments.
- Fall 2015/16 **Teaching Assistant**, Beijing Normal University.
  - Research Methods in Psychology: Design and Techniques
  - **Role**: Prepared slides for the instructor, developed assignment and final exam questions, marked all assignments and final exam, answered students' questions, and collaborated with the instructor to help make assessments.
- Spring 2015 **Teaching Assistant**, Beijing Normal University.
  - Item Response Theory
  - Role: Prepared slides for the instructor, developed assignment, helped students' course projects, answered students' questions, and collaborated with the instructor to help make assessments.
  - 10/2013— **Senior High School Intern Teacher**, *Nanhu School Affiliated to Beijing Normal* 11/2013 *University, Jiaxing, China*.
    - **Role**: Taught several classes on mental health; gave a lecture on sex education to 300+ students; class supervision; conducted a survey on students' mental health.
  - 07/2011 **Volunteer Tutor**, *Ding'an Middle School*, *Hainan*, *China*.
    - Role: Taught a short course on mental health; class supervision.

## Work Experience

09/2018- Research Intern, Alberta Education, Government of Alberta.

08/2021 • Supervisor: Dr. Alfred Sakyi

• **Experience**: Completed four projects on hierarchical linear modeling and multilevel structural equation modeling of PISA, PIRLS and TIMSS data, wrote research proposals, conducted data analyses, and prepared three technical reports, one data analysis tutorial, three research briefs and three research posters.

#### 12/2018 **Statistical Consultant**, Beijing University of Technology.

- Project: Screening for Students' Mental Health at Beijing University of Technology
- **Experience**: Provided the team with statistical expertise on descriptive analysis, item response modeling and factor analysis, did the data analysis of 18,000+ students' responses on mental health scales, and wrote up the results for an annual report on college students' mental health.
- 06/2014— Assistant Consultant, Horizon Research Consultancy Group, Inc..
- 07/2014 Experience: As one of the three principal investigators, participated in the performance appraisal of a city's government fiscal expenditure projects; independently chaired four expert conferences to assess projects from different areas and composed more than 60 performance appraisal reports.

## Languages

Native Mandarin Chinese

Native Wu Chinese

Fluent English

#### Skills

Software R, Python, Mplus, SPSS, Excel, LATEX, Markdown

## **Certificates**

Teaching Certificate for Senior High Schools, Ministry of Education, China.

## **Academic Service**

## **Journal Reviewer**

- Journal of Educational Data Mining
- o Journal for Research in Mathematics Education
- o BMC Medical Education

#### **Conference Reviewer**

 $\circ$  Reviewed four paper submissions and one session submission on Measurement & Research Methodologies for the 2021 American Educational Research Association Annual Meeting