LINLIN LI Academic Curriculum Vitae

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EDUCATIONAL QUALIFICATIONS AND ACADEMIC AWARDS

Doctor of Philosophy in Learning Sciences Advisor: Prof. Maria Cutumisu

Department of Educational & Counselling Psychology, McGill University, Canada 08/2025 – Present

- **Coursework Completed**: EDPE 684 Applied Multivariate Statistics; EDPE 666 Advanced Topics in Learning Sciences; EDPE 704 Professional Development Seminar 1
- **Selected Awards:** Tomlinson Doctoral Fellowship (GPS's most prestigious internal award); Graduate Excellence Fellowships (for students whose application dossiers are of exceptional caliber); International Tuition Scholarship (differential tuition fee waiver awarded for an exceptional academic record); SSHRC Canada Graduate Research Scholarships (nominated by the university and forwarded to SSHRC for further consideration).

Master of academic degree in Pedagogy (specialization: EdTech) Advisor: Prof. Xinghua Wang

School of Education Science, Qingdao University, China 09/2022 – 06/2025

- Average Score: 92.59/100
- **Selected Awards:** National Scholarship for Graduate students (top 3% of all postgraduates in China); President's Scholarship (top 0.5% of about 4,000 postgraduates); The 1st Grade Academic Scholarship (top 10 % of about 4,000 postgraduates).

Bachelor of Engineering in Software Engineering

School of Data Science and Software Engineering, Qingdao University, Qingdao, China 09/2016 – 07/2020

- Average Score: 81.36/100
- **Selected Awards:** The 3rd Prize of National Software and IT Professional Contest (C++/C language group) (top 30% of submissions); Outstanding Graduate of Shandong Province (top 6% of the about 8,000 graduates); Excellent Students' Leader (top 5% of the about 8,000 undergraduates).

Immersion Program, **National Institute of Information Technology University**, **India** 12/2019 – 01/2020

PROFESSIONAL EXPERIENCE

University Counselor (full-time), Qingdao University, Qingdao, China 07/2020 – 07/2022

- Managed 237 students and provided them with tailored counseling services.
- Taught College Students' Career Planning course for 64 students annually.
- Co-led student mental health projects, conducting data collection, analysis, and report writing for surveys (e.g., Symptom Checklist-90, Minnesota Multiphasic Personality Inventory).
- Completed Psychological Counselor Training Program by Chinese Academy of Sciences

Instructor, Qingdao University, Qingdao, China

College Students' Career Planning, Spring 2021, Spring 2022

Level: Undergraduate students from multiple majors

- **Course Development and Design:** Developed a curriculum covering self-assessment, career exploration, goal setting, and job search strategies, aligning content with current job market trends and student needs.
- **Interactive Teaching Methods:** Implemented a variety of teaching methods such as workshops, guest lectures, and group discussions to engage students and enhance their learning experience.
- **Comprehensive Assessment:** Implemented an assessment framework with both formative and summative methods, including group activities and presentations, to enhance student learning.

Teaching Assistant, Qingdao University, Qingdao, China

Basic Theory of Education, Fall 2022; ***Sociology of Education***, ***Family Education Research***, Spring 2023

Level: Graduate course; Instructor: Prof. Yousheng Wang

- Assisted in preparing and delivering course materials, including lecture notes and reading assignments.

- Held regular office hours to offer additional support and clarification on course topics.
- Managed course-related administrative tasks such as maintaining student records, coordinating schedules.

Educational Technology, Spring 2023

Level: Graduate course; Instructor: Prof. Xinghua Wang

- Facilitated group assignments by organizing group divisions and overseeing group presentations.
- Supported students during office hours, providing technical assistance and clarifying course concepts.
- Assisted in grading assignments and projects, delivering detailed feedback to enhance student learning.
- **Invited Manuscript Reviews**
- The Modern Language Journal (Impact Factor: 4.7, JCR Q1)

RESEARCH EXPERIENCE

Note. [x] indicate the paper in the research outputs list, and [Sx] indicate the associated software developed.

Center for Digital Education, Qingdao University, Qingdao, China 07/2022 – Present

Research Assistant, Director: Prof. Xinghua Wang and Lu Li

- Led projects in social robot-assisted learning for children [6, 7, 8], teachers' AI readiness [3], technostress in education [1], and cognitive & affective neuroscience: Evidence from functional Near Infrared Spectroscopy (fNIRS) [paper in preparation].
- Assisted projects in collaborative learning [5], online learning [4, S2], social emotional learning [9, S1], and brain literacy [2].
- Utilized a range of analytical techniques to analyze multimodal data, including Stata, SPSS, and RStudio for quantitative data analysis (e.g., surveys), Epistemic Network Analysis, and NVivo for qualitative data analysis (e.g., textual feedback, interview transcripts), and OxySoft, MATLAB, and HOMER2 for analyzing physiological measurements (e.g., (de)oxyhemoglobin), etc.
- Assisted in writing grant proposals and updated financial documents and budgets.

Center for Industrial Internet Innovation, Qingdao University, Qingdao China 06/2019 – 09/2019

Research Assistant, Director: Prof. Xiaofei Ji

- Assisted in AI-driven Industrial Inspection System project by optimizing machine learning algorithms (e.g., SVM, DBSCAN, YOLO), increasing metal plate and tobacco defect detection by 20%.
- Crafted a business plan and delivered presentations for the project commercialization.
- Awarded the Provincial Gold Prize in the College Students 'Internet+' Innovation and Entrepreneurship Competition (top 0.25% of submissions).

RESEARCH OUTPUTS **See My Google Scholar**

Refereed Journal Articles (* indicates corresponding author)

Published or accepted for publication:

1. Wang, X*. (co-first author), **Li, L. (co-first author)**, Wang, Q., Zhong, B., & Xu, Y. (2025). Meta–analyzing the impacts of social robots for children's language development: Insights from two decades of research from 2003 to 2023. *Educational Research Review*, *48*, 100702. [DOI] Impact Factor: 10.6, JCR Q1

My contributions: Conceptualization (co-formulated research aims), Investigation (co-collected data from five online databases); Methodology (co-designed the meta-analysis method according to PRISMA guidelines); Software (independently programmed using Stata); Formal analysis (calculated effect sizes and conducted moderator analysis using Stata independently, and co-coded 27 articles); Writing – original draft (independently completed); Writing – review & editing.

2. Li, L**.** (co-first author), **Li, L.*(co-first author)**, Zhong, B.*, & Yang, Y. (2024). A scientometric analysis of technostress in education from 1991 to 2022. *Education and Information Technologies,* 1–29. [DOI] [PDF] Impact Factor: 4.8, JCR Q1

My contributions: Data curation and Investigation (collected data from WoS and Scopus; performed data cleansing independently); Formal Analysis and Visualization (used Bibliometrix, CiteSpace, and VOSviewer for analysis and visualization independently); Methodology (co-designed the scientometric

analysis method); Writing – Original draft (independently completed); Writing – review & editing.

3. Yang J., Zhao L., Wang, X.*, Song, S., **Li L**. (2024). A systematic review of the impact of brain literacy interventions on teaching and learning (in Chinese), *Open Education Research.* CSSCI index [PDF]

My contributions: Data curation and Investigation (collected data from WoS and Scopus; performed data cleansing), Formal Analysis (co-coded the 32 articles included); Methodology (co-designed the systematic review method according to PRISMA guidelines); Writing – review & editing.

4. Wang, X.*, **Li, L.**, Tan, S. C., Yang, L., & Lei, J.* (2023). Preparing for AI-enhanced education: Conceptualizing and empirically examining teachers' AI readiness. *Computers in Human Behavior*, *146*, 107798. [DOI] [PDF] Impact Factor: 9.0, JCR Q1

My contributions: Data curation (performed data cleansing of 3950 survey responses in SPSS, according to lie-detection questions, response time etc.; maintained R language code for analysis); Formal Analysis (co-analyzed the questionnaire data using PLS-SEM); Writing – review & editing.

5. Li, Z., Lou, X., Chen, M., Li, S., Lv, C.*, Song, S.*, & **Li, L.** (2023). Students' online learning adaptability and their continuous usage intention across different disciplines. *Humanities and Social Sciences Communications*, *10*(1), 1–10. [DOI] [PDF] Impact Factor: 3.7, JCR Q1

My contributions: Methodology (co-designed the SEM method); Writing – review & editing.

6. Chen, M., Lv, C., Wang, X.*, **Li, L.***, & Yang, P. (2023). A Critical Review of Studies on Coopetition in Educational Settings. *Sustainability*, *15*(10), 8370. [DOI] [PDF] Impact Factor: 3.3, JCR Q2

My contributions: Data Curation (co-maintained the data from twenty-seven online databases using EndNote); Formal Analysis (co-coded the 33 articles included); Writing – Original draft (co-wrote with other authors); Writing – review & editing.

7. Wang, X.* (co-first author), Liu, Q. (co-first author), Pang, H., Tan, S. C., Lei, J., Wallace, M. P., & **Li, L.** (2023). What matters in AI-supported learning: A study of human-AI interactions in language learning using cluster analysis and epistemic network analysis. *Computers & Education*, *194*, 104703. [DOI] [PDF] Impact Factor: 8.9, JCR Q1

My contributions: Data curation (co-maintained the coding data derived from textual feedback and log data of AI coach for epistemic network analysis and clustering); Writing – review & editing.

Submitted or under review:

8. Li, L., Wang, X. *, Duan Z., Song S., & Wang Q., (under review). Beyond the Hype: A Meta-Analysis of the Impact of Social Robot-Assisted Language Learning on Children's Academic Success, Learning Interest, and Motivation from 2003 to 2024. *Computer Assisted Language Learning.* Impact Factor: 6.6, JCR Q1

My contributions: Conceptualization (independently formulated research aims), Investigation (co-collected data from five online databases); Methodology (co-designed the meta-analysis method according to PRISMA guidelines); Software (independently programmed using Stata); Formal analysis (calculated effect sizes and conducted moderator analysis using Stata independently, and co-coded 27 articles); Writing – original draft (independently completed); Writing – review & editing.

9. Wang, X.*, Song S., **Li, L.,** Duan Z., Wang Q., Lv C., & Qin M.* (under review). Charting the complexity: Meta-analyzing the impacts of social robots on child development. *Nature Communications*. [See Abstract] Impact Factor: 14.7, JCR Q1

My contributions: Investigation (co-collected data from six online databases); Methodology (co-designed the meta-analysis method according to PRISMA guidelines); Software (co-programmed using Stata); Formal analysis (co-calculated effect sizes and co-conducted moderator analysis using Stata, and co-coded 78 articles).

Conference presentations

10. Li, L. (presenter), Wang X., Song S., Wang Y., Zhao L. (2023, August 12–14) *What matters in AI-supported learning: A study of human-AI interactions in language learning using cluster analysis and epistemic network analysis*. (in Chinese). The 14th Global Chinese Conference on Inquiry Learning (GCCIL), Guangzhou, Guangdong, China. **(Best Paper Award, top 5% of submissions)**. [Slides]

My contributions: Formal analysis (applied epistemic network analysis to quantified the textual

feedback from 16 primary school students; conducted cluster analysis based on their log data of the AI coach); Writing – original draft (independently completed); Writing – review & editing.

GRANT FUNDING

Shandong Provincial Natural Science Foundation, China, $13,853 **My role:** main participant
Influence of Child-AI Interaction on Cognitive and Affective Development: Insights from fNIRS 2023 – 2026

CERTIFICATIONS AND QUALIFICATIONS

Applied Text Mining in Python [See Certificate], Coursera (University of Michigan) 02/2024
- Key skills: Natural language Toolkit, Text Mining, Natural Language Processing

Applied Machine Learning in Python [See Certificate], Coursera (University of Michigan) 08/2023
- Key skills: Machine Learning Algorithms, Scikit-Learn

Introduction to Data Science in Python [See Certificate], Coursera (University of Michigan) 07/2023
- Key skill: Python Programming, Numpy, Pandas, Data Cleansing

Statistics and Probability [See My Learning Profile], Kahan Academy 10/2023 – 03/2024
- Key skills: Sampling Distributions, Hypothesis Testing, T & Chi-square Test, Linear Regression, ANOVA

National IT Teacher's Qualification [See Certificate], Ministry of Education 01/2021

National English Teacher's Qualification [See Certificate], Ministry of Education 05/2019

SOFTWARE DEVELOPMENT AND COPYRIGHT

S1. Wang, X., Shi, H., Li, Z., **Li, L.**, Wang, Y., Song, S. (2023). *Immersive System for Cultivating Children's Social Emotional Skills v1.0*, Computer Software Copyright of China, 2023SR0166264. [See User Interface]

My contributions: co-designed the core system architecture and user interface, according to theories (e.g., ABC Theory of Emotion); co-programmed in C# language using Unity 3D and Visual Studio; independently submitted and followed up on application materials.

S2. Li, L., Wang, X. (2023). *Real-time Face Emotion Classifier with logging function* [Source code]. Available at GitHub: https://github.com/LINLIN908/Face_Emotion_Classifier.

My contributions: co-designed the strategic objectives of the software; independently programmed to implement the data logging functionality and packaged executable files for easier deployment.

TECHNICAL SKILLS

Quantitative & Qualitative analysis software: SPSS, R & RStudio, Stata, CMA, Review Manager, AMOS, Epistemic Network Analysis, NVivo

fNIRS equipment and analysis software: Brite 24 (Artinis, Netherlands), OxySoft, MATLAB, HOMER2

Visualization software: Bibliometrix, CiteSpace, VOSviewer

Programming: Proficient in Python, C/C#/C++; familiar with JavaScript, HTML, CSS