LINLIN LI Academic Curriculum Vitae

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EDUCATIONAL QUALIFICATIONS AND ACADEMIC AWARDS

Master of academic degree in Pedagogy (specialization: EdTech) Advisor: Prof. Xinghua Wang
Normal school, Qingdao University, China 09/2022 – Present

- Average Score: 92.13/100
- Thesis: *AI-enhanced Language Learning: Children's Cognitive & Affective Development (50,000 words)*
- **Selected Awards:** Best Paper Award (top 1% of submissions) for [9]; President's Scholarship (top 0.5% of about 4,000 postgraduates); The 1st Grade Outstanding Student Scholarship (top 10 % of about 4,000 postgraduates); Top 100 Outstanding Students (top 2.5 % 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).

PROFESSIONAL EXPERIENCE

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

- Managed 237 students and provided them with tailored counselling services.
- Taught College Students' Career Planning course for 64 students.
- 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 Counsellor Training Program by Chinese Academy of Sciences

Invited Manuscript Reviews

- The Modern Language Journal (Impact Factor: 4.7)

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], and technostress in education [1], 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 [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 09/2019 – 09/2020
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 correspondent author, † indicates co–first author)

Published or accepted for publication:

1. Li, L.†, **Li, L.**†*, Zhong, B.*, & Yang, Y. (2024). A scientometric analysis of technostress in education from 1991 to 2022. *Education and Information Technologies*. [DOI] [PDF] Impact Factor: 4.8

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.

2. 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.

3. 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

My contributions: Data curation (performed data cleansing of 3950 survey responses, according to criteria, such as lie-detection questions, response time; maintained R language code for analysis); Formal Analysis (co–analyzed the questionnaire data using partial least squares structural equation modelling method); Writing – review & editing.

4. 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

My contributions: Methodology (co–designed the structural equation modeling method); Writing – review & editing.

5. 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

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.

6. Wang, X.†*, Liu, Q.†, 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

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:

7. Wang, X.†*, **Li, L.†,** Wang Q., Zhong B., Xu Y., (under review). 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.* [See Abstract] Impact Factor: 9.6

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.

8. XXX… (pending submission). Boon or bane: Meta–analyzing the impacts of social robots on child development. *Science Robotics*. [See Abstract] Impact Factor: 26.1

My contributions: Investigation (co-collected data from X 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

9. 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). 14th The 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 Province National 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, Confidence intervals, 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, Stata, CMA, Review Manager, R & RStudio, 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, Java, HTML, CSS

Language: Native/bilingual proficiency in Mandarin/English