

Xiaoxue LENG

Email: xiaoxuel@unc.edu | Personal Website: <https://xiaoxueleng00.github.io/>

EDUCATION

- 2025-2030 (Expected) **University of North Carolina at Chapel Hill (UNC), Chapel Hill, NC**
Ph.D. Student in Education (Learning Sciences and Psychological Studies)
Advisor: Dr. Matthew Bernacki
- 2021-2024 **Central China Normal University (CCNU), Wuhan, China**
M.Ed. in Psychology
Thesis: *The effects of viewing perspective in learning from instructional videos which demonstrate a step-by-step procedure*
Advisor: Dr. Fuxing Wang
- 2017-2021 **Central China Normal University, Wuhan, China**
B.S. in Psychology with Honors

PUBLICATIONS

Note. * indicates co-first author, # indicates corresponding author.

Journal Articles in English (N = 7)

- Zhu, W., **Leng, X.**, Mayer, R. E., & Wang, F. (2025). No need for webcams with synchronous online learning. *Learning and Instruction*, 98, 102131.
<https://doi.org/10.1016/j.learninstruc.2025.102131>
- Wang, F., **Leng, X.**, Kuang, Z., & Zhao, T. (2024). Eye movement modelling examples as cues to guide attention and improve learning in short or long animations. *Journal of Computer Assisted Learning*, 41, e13094. <https://doi.org/10.1111/jcal.13094>
- Leng, X.**, Zhu, W., Mayer, R. E., & Wang, F. (2024). The viewing perspective effect in learning from instructional videos: A replication and neuroimaging extension. *Learning and Instruction*, 94, 102004. <https://doi.org/10.1016/j.learninstruc.2024.102004>
- Li, W., Kuang, Z., **Leng, X.**, Mayer, R. E., & Wang, F. (2024). Role of gesturing onscreen instructors in video lectures: A set of three-level meta-analyses on the embodiment effect. *Educational Psychology Review*, 36(67). <https://doi.org/10.1007/s10648-024-09910-0>
- Leng, X.**, Wang, F., Mayer, R. E., & Zhao, T. (2024). How to train students to engage in text-picture integration for multimedia lessons. *British Journal of Educational Technology*, 55(3), 1167–1188. <https://doi.org/10.1111/bjet.13419>
- Kuang, Z., Jiang, X., Shubeck, K., **Leng, X.**, Li, Y., Zhang, R., Wang, Z., Peng, S., & Hu, X. (2024). The effect of different question types on vicarious learning. *Educational Psychology*, 44(2), 208-226. <https://doi.org/10.1080/01443410.2024.2325589>
- Leng, X.**, Wang, F., & Mayer, R. E. (2024). Is student learning from a video lecture affected by

whether the instructor wears a mask? *Applied Cognitive Psychology*, 38(1), e4169.

<https://doi.org/10.1002/acp.4169>

Journal Articles in Chinese (N = 5)

Kuang, Z., **Leng, X.**, Wang, F., & Hu, X. (Accepted). Graspable: The promoting effect of tracing gesture on learning. *Psychological Development and Education*.

Wang, F., Huang, Y., Zhang, Y., Zhu, W., & **Leng, X.** (2024). Prompts affect learning-by-teaching process and learning outcome in multimedia learning. *Acta Psychologica Sinica*, 56(4), 469-481. <https://doi.org/10.3724/SP.J.1041.2024.00469>

Wang, F., Huang, Y., **Leng, X.**, & Kuang, Z. (2023). Learning-by-teaching promotes the effect of multimedia learning: The impact of self-generated drawing. *Journal of Soochow University (Educational Science Edition)*, (3), 97–106. <https://doi.org/10.19563/j.cnki.sdj.2023.03.008>

Cheng, M., Kuang, Z., **Leng, X.**, Zhang, Y., & Wang, F. (2023). Can learning by non-interactive teaching promote learning? *Advances in Psychological Science*, 31(5), 769–782. <https://doi.org/10.3724/SP.J.1042.2023.00769>

Leng, X., Cheng, M., & Wang, F. (2022). The effects of testing and feedback on segmentation principle in video learning. *Studies of Psychology and Behavior*, 20(01), 52–58. <https://doi.org/10.12139/j.1672-0628.2022.01.008>

Conference & Presentations (N = 11)

Zhu, W., **Leng, X.**, Mayer, R. E., & Wang, F. (2025, April). *No need for webcams with synchronous online learning*. The 2025 American Educational Research Association Annual Meeting, Denver, CO.

Xiong, F., Ma, A., & **Leng, X.** (2023, November). *Understanding individual differences in reading Chinese traditional poetry using hidden Markov Models*. The International Conference on Intelligent Education and Intelligent Research 2023, Wuhan, Hubei, China.

Leng, X., Kuang, Z., Wang, F., & Qiao, P. (2023, October). *The effects of tracing gesture on learning outcomes and cognitive load: Evidence from two three-level meta-analyses*. The 25th National Academic Conference of Psychology, Chengdu, Sichuan, China.

Zhu, W., **Leng, X.**, & Wang, F. (2023, October). *Can the presence of teacher and student promote online learning?*. The 25th National Academic Conference of Psychology, Chengdu, Sichuan, China.

Huang, Y., Zhang, Y., Zhu, W., **Leng, X.**, & Wang, F. (2023, October). *Prompts affect learning-by-teaching process and learning outcome in multimedia learning*. The 25th National Academic Conference of Psychology, Chengdu, Sichuan, China.

Leng, X., Wang, F., Kuang, Z., & Zhao, T. (2023, September). *Eye movement modelling examples as cues to guide attention and improve learning in short or long animations*. The 9th China International Conference on Eye Movements, CICEM 2023, Tianjin, China.

Leng, X., Zhao, T., & Wang, F. (2022, November). *The effects of eye movement modeling examples and verbal instruction in video learning*. The 24th National Academic Conference of Psychology, Xinxiang, Henan, China. [In virtual]

- Leng, X.,** Wang, F., & Zhu, W. (2022, November). *Do instructors' wearing masks affect students' learning?*. The 24th National Academic Conference of Psychology, Xinxiang, Henan, China. [In virtual]
- Cheng, M., Wang, F., & **Leng, X.** (2022, November). *Audience size on learning-by-teaching: Clarifying the social presence hypothesis*. The 24th National Academic Conference of Psychology, Xinxiang, Henan, China. [In virtual]
- Huang, Y., **Leng, X.**, Kuang, Z., & Wang, F. (2022, November). *Learning-by-teaching promotes the effect of multimedia learning: The impact of self-generated drawing*. The 24th National Academic Conference of Psychology, Xinxiang, Henan, China. [In virtual]
- Leng, X.,** Wang, F., & Cheng, M. (2021, October). *Incorporated self-test and feedback enhances learners' learning outcomes during the learning with segmentation*. The 23th National Academic Conference of Psychology, Hohhot, Inner Mongolia, China. [In virtual]

MANUSCRIPTS UNDER REVIEW

- Kuang, Z., Lai, X., **Leng, X.**, Zhang, L., Lin, J. & Hu, X. Cultural similarity or content similarity? The impact of pedagogical agent's image on English learning. (Under review)
- Leng, X.**, Wu, Y., Zhang, Q., & Wang, F. How producing gestures improve children's memory on spatial information. (Under review)
- Cheng, M., Zhu, W., **Leng, X.**, Mayer, R. E., & Wang, F. Optimizing the effectiveness of learning-by-teaching as a generative learning strategy by converting a live audience face into a static avatar. (Under review after major revision)
- He, G., Lin, H., **Leng, X.**, & Su, A. How to evaluate students' mathematical modeling competencies: Construction and verification of a new evaluation framework for mathematical modeling competencies. (Under review)

MANUSCRIPTS IN PREPARATION

- He, G., **Leng, X.***, & Lin, H. The effect of parent-student congruency in growth mindset on students' math performance: A responsive surface approach.
- He, G., **Leng, X.***, & Lin, H. The relationship of student-parent mindset and involvement profiles and math achievement: A latent profile analysis and structural equation model.
- Zhang, Y., **Leng, X.**, & Pan, Y. What can Motion Energy Analysis tell us about educational interactions?

RESEARCH EXPERIENCE

- | | |
|--------------|--|
| 2025-Present | Graduate Research Assistant
School of Education, UNC, Chapel Hill, NC
PI: Dr. Matthew Bernacki |
| 2021-2024 | Graduate Research Assistant |

Learning and Child Development Lab, CCNU, Wuhan, China

PI: Dr. Fuxing Wang

2020-2021

Undergraduate Research Assistant

Learning and Child Development Lab, CCNU, Wuhan, China

PI: Dr. Fuxing Wang

TEACHING EXPERIENCE

School of Psychology, CCNU

2022 Fall, 2023 Fall

Instructor

Safety & Technique Use (Two-week courses)

Laboratory Center

2023 Spring

Graduate Teaching Assistant

Introduction to Psychology II

Instructor: Dr. Fuxing Wang & Dr. Ming Peng

2022 Fall

Graduate Teaching Assistant

Introduction to Psychology I

Instructor: Dr. Fuxing Wang & Dr. Hanshu Zhang

HONORS & AWARDS

Received at University of North Carolina at Chapel Hill

2025

Doctoral Merit Award

2025

Charles Templeton Scholarship

Received at Central China Normal University

2023

Second Class Scholarship

2022

Outstanding Graduate Scholarship (Third Prize)

2021, 2022

First Class Scholarship

2021

Merit-based Admission Scholarship

2021

Outstanding Graduates Award

2020-2021

National Undergraduate Training Program for Innovation and Entrepreneurship & Student Research Training Program (10,000 RMB)

2018, 2019, 2020

Merit Student Award

2019-2020

Undergraduate Student Research Training Program (2,000 RMB)

2018, 2020

Boya Scholarship

Others

2025

Encouragement Fellowship for Doctorate Students (10,000 RMB)

SERVICES

2025-2026

Mentor

NextGen Psych Scholars Program

2019-2020

Editor

Journal of Undergraduates of Central China Normal University
(Humanities and Social Sciences Section)