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Assessment and learning engagement in massive open online courses

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Citation

Wei, X. (2026, June 25). *Assessment and learning engagement in massive open online courses*. *ICLON PhD Dissertation Series*. Retrieved from <https://hdl.handle.net/1887/4307435>

Version: Publisher's Version

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Note: To cite this publication please use the final published version (if applicable).

Curriculum vitae

Xiaomei Wei was born in Chengdu, China, and pursued her Ph.D. in the field of technology-enhanced teaching and learning at the Graduate School of Teaching, Leiden University. Following her study at No. 2 Secondary School, she holds a bachelor's degree in architecture and landscape design awarded by Sichuan Agricultural University, and a research master's degree in curriculum and instruction, as well as a double degree in subject pedagogy, obtained from Southwest University.

Xiaomei's Ph.D. research focuses on assessment and learning engagement in technology-enhanced learning environments, specifically in the context of massive open online courses, where she employs interdisciplinary methods to carry out studies across themes such as assessment of learning outcomes, motivation, self-regulated learning, and the social construction of knowledge. Her work has been conducted under the supervision of Prof. Dr. Wilfried Admiraal and Prof. Dr. Nadira Saab at Leiden University. During her Ph.D. journey, to enrich her research experiences and broaden her skills and knowledge, she has been a visiting researcher to the research groups at Delft University of Technology. In Delft, her study and research focused on emerging learning technologies and learning analytics in education. She collaborated with and was supported by Prof. Dr. Marcus Specht, TU Delft Learning for Life Centre, and international colleagues in the research groups.

In addition to her research activities, throughout her Ph.D. trajectory, she has fulfilled extensive scientific training programs to strengthen her research knowledge and skills. Xiaomei has completed a series of academic training programs, such as Academic Writing, Scientific Conduct, Research Ethics and Data Management, and Career Event, offered by HRM Learning & Development and the Library at Leiden University. Xiaomei was a member of the Interuniversity Centre for Educational Sciences (ICO), and she attended formal training in thematic and methodological courses provided by ICO, such as Masterclass Research into Higher Education, Masterclass Qualitative Research Methodology, Conducting Educational Design Research, Innovative Assessment Research and Implications for Practice, Multilevel Analysis, R and RStudio, ICO International & National Spring Schools, and others. Moreover, she participated in several international training programs, such as the EERA Summer School and the EATEL Summer School on Technology Enhanced Learning. These training programs have served as solid foundation for her accomplishment of the research projects. Her doctoral research has been presented at national and international conferences and symposiums.

Publications and presentations

Publications in peer-reviewed journals

- Wei, X., Saab, N., & Admiraal, W. (2024). What rationale would work? Unfolding the role of learners' attitudes and motivation in predicting learning engagement and perceived learning outcomes in MOOCs. *International Journal of Educational Technology in Higher Education*, 21(1), 5. <https://doi.org/10.1186/s41239-023-00433-2>
- Wei, X., Saab, N., & Admiraal, W. (2023). Do learners share the same perceived learning outcomes in MOOCs? Identifying the role of motivation, perceived learning support, learning engagement, and self-regulated learning strategies. *The Internet and Higher Education*, 56, 100880. <https://doi.org/10.1016/j.iheduc.2022.100880>
- Wei, X., Saab, N., & Admiraal, W. (2021). Assessment of cognitive, behavioral, and affective learning outcomes in massive open online courses: A systematic literature review. *Computers & Education*, 163, 104097. <https://doi.org/10.1016/j.compedu.2020.104097>

Conference contributions

- Wei, X., Saab, N., & Admiraal, W. (2023, August 21-25). *What drives you to be active in MOOC discussion forums? Understanding the social construction of knowledge through discussions*. Paper presentation at European Conference on Educational Research (ECER) 2023, Glasgow, The United Kingdom.
- Wei, X., Saab, N., & Admiraal, W. (2023, May 8-12). *Learning in MOOCs: Connecting attitudes and motivation to learning engagement and perceived learning outcomes*. Roundtable presentation at ICO International Spring School, Blankenburg, Belgium.
- Wei, X., Saab, N., & Admiraal, W. (2022, August 22-25). *Learning engagement and perceived learning outcomes in MOOCs*. Paper presentation at European Conference on Educational Research (ECER) 2022, Yerevan, Armenia.
- Wei, X., Saab, N., & Admiraal, W. (2022, June 7). *Understanding learning in MOOCs: Identifying the influence of motivation, perceived learning support, learning engagement, and self-regulated learning strategies on perceived learning outcomes*. Poster presentation at the Leiden Teachers' Academy (LTA) Teaching Festival, Leiden, The Netherlands.

- Wei, X., Saab, N., & Admiraal, W. (2022, May 21-28). *A systematic review on learning assessment in online course in higher education*. Paper presentation at the sixteenth European Association of Technology Enhanced Learning (EATEL) Summer School on Technology Enhanced Learning, Sani, Halkidiki, Greece.
- Wei, X., Saab, N., & Admiraal, W. (2022, March 17-18). *Unpacking the role of motivation and self-regulated learning strategies in influencing perceived learning outcomes in MOOCs*. Paper presentation at ICO National Spring School, Twente, The Netherlands. Virtual event.
- Wei, X., Saab, N., & Admiraal, W. (2021, September 2-10). *Identifying the influence of motivation, learning experiences, learning engagement, and self-regulated learning strategies on learners' perceived learning outcomes in MOOCs*. Paper presentation at European Conference on Educational Research (ECER) 2021, Geneva, Switzerland. Virtual event.
- Wei, X., Saab, N., & Admiraal, W. (2021, June). *Examining learners' perceived learning outcomes in MOOCs: the effects of motivation, learning experiences, learning engagement, and self-regulated learning strategies*. Paper presentation at European Educational Research Association (EERA) Summer School 2021, Jyväskylä, Finland. Virtual event.
- Wei, X., Saab, N., & Admiraal, W. (2021, March 16-18). *Measurements and learning outcomes in massive open online courses: A systematic review*. Poster presentation at ICO International Spring School. Virtual event.

Acknowledgements

Supervisors and colleagues

Roads diverged in the forest, and I took the one traveled for my one wild and precious life. That has made all the difference. All beautiful memories and moments come to my mind when I reflect on my Ph.D. journey.

Firstly, I am incredibly grateful to my supportive supervision team for their invaluable guidance, insightful feedback, and continuous support throughout my doctoral research. Their autonomy-supportive supervision gave me much space to develop and grow in the best way possible. Wilfried, I tremendously appreciate your thorough feedback and constructive communication, which challenged me and helped me navigate the direction. Your openness and engagement in discussions and support for my ideas created an encouraging environment that was both motivating and intellectually stimulating. Nadira, I am grateful for your critical perspectives, insightful questions, and constructive suggestions, which inspired me to think thoroughly and strengthen my research. Your cheerful and encouraging energy is always contagious and has brought positivity throughout the journey. The intellectual lifting, expertise, and encouragement from you both have been instrumental in shaping this dissertation and my growth. These beautiful memories will never fade away. The academic traits that I have nurtured under both of your supervision will profoundly benefit my future professional career.

A special thanks to my promotion committee members, Prof. Dr. Bart Barendregt, Prof. Dr. Fred Paas, Prof. Dr. Liesbeth Kester, Prof. Dr. Roeland van der Rijst, and Dr. Lysanne Post, for your time and effort in assessing my dissertation.

My appreciation goes to Prof. Dr. Baoqing Li for the tremendous help you provided in contacting course instructors and with data collection during the pandemic. Your guidance and encouragement meant a great deal to me, and your support has always been far more than I could have expected.

I am deeply grateful to have been a visiting researcher at Delft University of Technology and to have met wonderful people. Prof. Dr. Marcus Specht and the Scientific Committee, thank you for accepting me into the research groups and supporting my research in Delft. Selma and

Nardo from the TU Delft Learning for Life Centre, I appreciate your consistent support and patience in research coordination. Manuel, thank you for your time and effort in discussing and shaping research ideas. This episode was special, allowing me to focus on learning technologies and learning analytics while enriching my interdisciplinary perspectives and skills.

I extend my heartfelt thanks to all my colleagues at ICLON, for the inspiring discussions, collaborations, friendly atmosphere, and fun activities that made my PhD experience both unforgettable and enjoyable. Inge and Ben, I appreciate your kind help and assistance with administrative and research-relevant inquiries. Alma and Els, my sweet roommates, I am particularly thankful for your kindness, attention, and care that make me feel at home. I always enjoy the conversations and stories that we share. The scenarios with you, which were filled with laughter and joy, stand vividly. To my paranymphs, Ieke and Els, I owe special thanks for your kind support in preparations and for accompanying me during the defense.

Thank you to all fellow PhDs for engaging conversations and kind support, both academic and personal, which made this journey filled with fun and enjoyment. I deeply appreciate many joyful moments that we shared — from ICO courses and conference trips to uitjes, padel tournaments, table football, Sjoelen, Kubb, Jenga, table tennis, make-up workshop, nail-beauty salon, board games, happy hour, festive celebrations, and other activities. Thank you goes to Yuzhi, Marga, Cheng, Luxi, Els, Ieke, Morteza, Yujia, Catur, Qingqing, Dunya, Geerte, Xiaolin, Qi, Nika, Gergana, Mónica, Simone, Max, Yang, Errol, Luyao, Xu, and others, for the camaraderie, discussions, and chats, as well as for sharing perspectives from different fields and cultures.

My sincere thanks go to colleagues in Delft, Xiaoling, Ali, Bibeg, Erna, Yoon, Gitte, Sylvia, Noortje, and others, your kind support has been invaluable. Enjoyment and fulfillment with you came not only from research group meetings and research retreats, but also from foody parties, kayaking, Christmas events, and more.

Furthermore, I would like to thank all those who have supported me throughout this journey but are not mentioned individually here. Your contributions, encouragement, presence, and kindness are sincerely appreciated.

Family and friends

I would like to express my deepest appreciation to my family and friends for their endless love, support, encouragement, and belief in me along the way. Heartfelt gratitude to my parents, your unwavering support and encouragement sustained me during challenging moments and celebrated every small milestone. Mom, you have inspired me to keep exploring my potential and pursue a flourishing life. Dad, you have shown me the value of responsibility, perseverance, and determination. I am proud to carry these qualities forward. Mom and Dad, you have been the flame that has ignited my life forever.

Beloved Je Je, I am profoundly grateful for your support, patience, and care. With you, I have found a safe space where I can truly be myself and shine as I am. You are always there for me whenever I turn around. You have a magical power that lets me always experience relaxation, joy, and peace. Your love and belief in me have been the constant source of strength to move forward. Wishes for us, in the embrace of the gentle rhythm of time, a thriving life grows fragrant.

Importantly, I would like to acknowledge myself for the perseverance, courage, dedication, and determination that carried me through this journey. I thank myself for nurturing hobbies and making space for sports, instruments, and dance, which are essential parts of my life, that always refuel me. I am proud of the person I have become in the process. To my future self, may you create joy and happiness along the way, and enjoy what is to be.

Hora Est!

To my parents, family, friends, supervisors, and colleagues,
who would be very happy to celebrate
the accomplishment of this dissertation.



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