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Assessment and learning engagement in massive open online courses

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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, Blankenburge, 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.

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Supervisors and colleagues

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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.

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To my parents, family, friends, supervisors, and colleagues,
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