

# Jacqueline Wong

email: l.y.jwong@uu.nl

## PERSONAL PROFILE

- Motivated and capable researcher with experience in higher education research focusing on self-regulated learning and learning analytics.
- Ten years of practical teaching experience across primary, secondary, and higher education in public schools in Singapore, international school in Shanghai, China, and at Erasmus University, the Netherlands.
- Research interest includes self-regulated learning, self-monitoring, motivation, cognitive load, educational technology, feedback, and learning analytics.
- Actively involved in research collaborations across universities and with Leiden-Delft-Erasmus Centre of Education and Learning (LDE-CEL).
- Demonstrated ability to lead and manage research projects independently.
- Strong interpersonal skills and ability to effectively communicate with research partners.

## EDUCATION

April 2016 – January 2022

**PhD candidate | Erasmus University Rotterdam, The Netherlands**

- Cum Laude
- Best Thesis 2021, awarded by Erasmus Graduate School of Social Sciences and the Humanities
- PhD title: Supporting Self-Regulated Learning Through Instructional Supports and Learning Analytics in Online Higher Education
- Supervisors: Prof. dr. Fred Paas, Dr. Martine Baars, and Dr. Björn de Koning
- The aim of this thesis is twofold: 1) to investigate how self-regulated learning (SRL) can be facilitated in Massive Open Online Courses (MOOCs), and 2) to explore learning analytics as a tool to investigate SRL. The dissertation provides insight into the design, implementation, challenges, and future directions for SRL support in MOOCs as well as the use of learning analytics to measure and facilitate SRL.

August 2014 – August 2015

**Master of Science in Educational Psychology | Erasmus University Rotterdam, The Netherlands**

- Cum Laude
- Thesis title: Comprehension in Action: Effects of Movements on Text Comprehension

July 2006 – July 2008

**Bachelor of Arts with Majors in Psychology and Linguistics | University of Queensland, Australia**

- Dean's commendation for academic excellence 2006-2008
- Brisbane School of Arts Book Prize 2008

July 2001 – July 2003

**Diploma in Education and Teaching | National Institute of Education, Singapore**

## EMPLOYMENT

June 2020 – Present

**Postdoctoral Research | Delft University of Technology, The Netherlands**

- Spearhead research activities in Program of Innovation in Mathematics Education (PRIME).
- Supervise PhD students with research projects on student engagement and goal setting.
- Supervise Master and Bachelor student projects on applying statistics on data for educational research.
- Manage Erasmus+ project on supporting self-regulated learning in digital and remote education.

October 2015 – March 2016

Research Assistant | Centrum Wiskunde Informatica, The Netherlands

- Managed research projects within the Distributed Information Systems Group on developing sensors to measure audience engagement.

August 2010 – July 2014

Teacher | Shanghai Singapore International School, China

- Coordinated and led the Optimal Learning Programme.
- Headed the Student Leadership council
- Taught core subjects at primary level

July 2008 – July 2010

Teacher | SengKang Secondary School, Singapore

- Taught English at secondary level

July 2003 – June 2006

Teacher | White Sands Primary School, Singapore

- Taught core subjects at primary level
- Won team award on innovation in using Information Technology (IT) in School

## PROFESSIONAL DEVELOPMENT

- Completed the full Interuniversity Center for Educational Sciences (ICO) educational programme
- Attended graduate courses at Erasmus Graduate School of Social Sciences and the Humanities
- Completed course on Coursera: R programming; Getting and Cleaning Data; The Data Scientist's Toolbox
- Completed Fluxicon: Process Mining Training
- Learning Analytics Summer Institute 2018 at Teachers College Columbia University in New York.

## PUBLICATIONS and PUBLISHED CONFERENCE PROCEEDINGS

- Wong, J.,** Baars, M., de Koning, B. B., & Paas, F. (in press). Designing instructional support in online learning environments: Insights from research on supporting self-regulated learning in MOOCs. In R. Sharpe, S. Bennet, & T. Varga-Atkins (Ed.), *Handbook of digital higher education*. Edward Elgar Publishing.
- Khalil, M., **Wong, J.,** Er, E., Heitmann, M., & Belokry, G. (2022). Tweetology of Learning Analytics: What does Twitter tell us about the trends and development of the field?. *Proceedings of the LAK22: 12th International Learning Analytics and Knowledge Conference*, 347-357. <https://doi.org/10.1145/3506860.3506914>
- Wong, J.,** Baars, M., He, M., de Koning, B. B., & Paas, F. (2021). Facilitating goal setting and planning to enhance online self-regulation of learning. *Computers in Human Behavior*, 124, 106913. <https://doi.org/10.1016/j.chb.2021.106913>
- Wong, J.,** Baars, M., de Koning, B. B., & Paas, F. (2021). Examining the use of prompts to facilitate self-regulated learning in Massive Open Online Courses. *Computers in Human Behavior*, 115, 106596. <https://doi.org/10.1016/j.chb.2020.106596>
- Jivet, I., **Wong, J.,** Scheffel, M., Valle Torre, M., Specht, M., & Drachsler, H. (2021). Quantum of Choice: How learners' feedback monitoring decisions, goals and self-regulated learning skills are related. *Proceedings of the 11th International Conference on Learning Analytics and Knowledge*, 416-427. <https://doi.org/10.1145/3448139.3448179>
- Ouwehand, K., van der Kroef, A., **Wong, J.,** & Paas, F. (2021). Measuring Cognitive Load: Are There More Valid Alternatives to Likert Rating Scales? *Frontiers in Education*, 6. <https://doi.org/10.3389/feduc.2021.702616>

- Wong, J.,** Khalil, M., Baars, M., de Koning, B. B., & Paas, F. (2019). Exploring sequences of learner activities in relation to self-regulated learning in a massive open online course. *Computers & Education*, 140, 103595. <https://doi.org/10.1016/j.compedu.2019.103595>
- Wong, J.,** Baars, M., de Koning, B. B., van der Zee, T., Davis, D., Khalil, M., Houben, G. J., & Paas, F. (2019). Educational theories and learning analytics: From data to knowledge. In D. Ifenthaler, D. K. Mah, J. Y. K. Yau (Eds.), *Utilizing learning analytics to support study success* (pp. 3-25). Springer. [https://doi.org/10.1007/978-3-319-64792-0\\_1](https://doi.org/10.1007/978-3-319-64792-0_1)
- Wong, J.,** Baars, M., Davis, D., van Der Zee, T., Houben, G. J., & Paas, F. (2019). Supporting self-regulated learning in online learning environments and MOOCs: A systematic review. *International Journal of Human-Computer Interaction*, 35(4-5), 356-373. <https://doi.org/10.1080/10447318.2018.1543084>
- Khalil, M., **Wong, J.,** Baars, M., Zafar, F. & Wasson, B. (2019). Evaluating the usability of a study support mobile app for higher education. *Proceedings of World Conference on Mobile and Contextual Learning 2019*, 85-93.
- Wong, J.,** Baars, M., de Koning, B. B., & Paas, F. (2018). Enhancing student success in open online education based on theories of self-regulation, motivation and cognitive load: A learning analytics approach. *Doctoral Consortium presentation at Learning Analytics and Knowledge Conference*, Sydney, AU, March 6-9, 2018.
- Khalil, M., **Wong, J.,** de Koning, B. B., Ebner, M., & Paas, F. (2018). Gamification in MOOCs: A review of the state of the art. *Proceedings of the 2018 IEEE Global Engineering Education Conference*, 1635-1644. <https://doi.org/10.1109/EDUCON.2018.8363430>
- Khalil, M., & **Wong, J.** (2018). The essence of time: Taking a look at learning sessions in MOOCs. *Proceedings of the Fifth Learning with MOOCs Conference*, 131-133. <https://doi.org/10.1109/LWMOOCS.2018.8534681>
- Wang, C., **Wong, J.,** Zhu, X., Rögglä, T., Jansen, J., & Cesar, P. (2016). Quantifying audience experience in the wild: Heuristics for developing and deploying a biosensor infrastructure in theaters. *Eighth International Conference on Quality of Multimedia Experience*. 1-6. <https://doi.org/10.1109/QoMEX.2016.7498951>

## PAPER

- Wong, J.,** Khalil, M., Suschevskiy, V., Baars, M., de Koning, B. B., Zafar, F., & Paas, F. (in preparation). Relationship between self-regulated learning and use of mobile study app.
- Wong, J.,** Baars, M., & Cabo, A. (in preparation). Examining engineering students' use of study strategies for mathematics.

## PRESENTATIONS AND WORKSHOPS

- Wong, J.,** van Jaarsveld, G. M., Valle Torre, M., Baars, M., & Specht, M. (2022, April 21). Learning Analytics: An interdisciplinary perspective. Centre for Learning and Innovation Network, Rotterdam, Netherlands.
- Wong, J., & Jivet, I.** (2022, February 21). What happens when students get to choose indicators on customisable dashboards?. Webinar for Society of Learning Analytics and Knowledge Research (SoLAR), Online.
- Wong, J.,** Baars, M., & Cabo, A. (2021, May 11). *Study habits and beliefs of engineering undergraduates studying mathematics in a blended learning context* [Paper presentation]. European Association for Research on Learning and Instruction Special Interest Group 16- Metacognition (EARLI SIG 16), Online.
- Wong, J.,** Baars, M., de Koning, B. B., & Paas, F. (2021, January 28). *Examining the use of prompts to facilitate self-regulated learning in Massive Open Online Courses* [Research seminar]. Open Lab for Psychometrics of Digital Learning, Online.
- Wong, J.,** Baars, M., de Koning, B. B., & Paas, F. (2019, August 12-16). *Facilitating self-regulated learning in Massive Open Online Courses* [Symposium paper presentation]. European Association for Research on Learning and Instruction (EARLI), Aachen, Germany.

- Wong, J.,** Baars, M., de Koning, B. B., & Paas, F. (2019, August 10-11). *Use of game app in higher education: Interactions among motivation, app usage, and achievement* [Poster presentation]. Junior Researchers of European Association for Research on Learning and Instruction (JURE), Aachen, Germany.
- Baars, M., & **Wong, J.** (2019, May 21). *Importance of regulation of learning in technology-enhanced learning environments* [Workshop]. Leiden-Delft-Erasmus Centre of Education and Learning on Technology Enhanced Learning in Higher Education, Delft, Netherlands.
- Wong, J.,** Baars, M., de Koning, B. B., & Paas, F. (2019, March 14). *Facilitating self-regulated learning through prompts* [Pitch presentation]. Graduate Research Day of the Department of Psychology, Education, and Child Studies at Erasmus University Rotterdam (GRD DPECS), Rotterdam, Netherlands.
- Wong, J.,** Baars, M., de Koning, B. B., & Paas, F. (2018, December 11). *Research on PhD project on student characteristics in online education* [Oral Presentation]. Leiden-Delft-Erasmus Centre of Education and Learning, Delft, Netherlands.
- Zafar, F., **Wong, J.,** & Khalil, M. (2018, September 5-6). *Gamifying higher education: Enhancing learning with mobile game app* [Demonstration Paper]. Learning at Scale Conference (L@S), London, United Kingdom.
- Wong, J.,** Khalil, M., Baars, M., de Koning, B. B., & Paas, F. (2018, July 2-6). *Analyzing clickstream data to examine online regulation of learning* [Paper presentation]. Junior Researchers of European Association for Research on Learning and Instruction (JURE), Antwerp, Belgium.
- Wong, J.,** Khalil, M., Baars, M., de Koning, B. B., & Paas, F. (2018, April 24-26). *Understanding learning in relation to self-regulation using clickstream data from a Massive Open Online Course* [Poster presentation]. Open Education Global Conference, Delft, Netherlands.
- Khalil, M., **Wong, J.,** & Davis, D. (2018, April 24-26). *Gamification in MOOCs - General overview* [Paper presentation]. Open Education Global Conference, Delft, Netherlands.
- Wong, J.,** Baars, M., Davis, D., Van der Zee, T., Houben, G. J., & Paas, F. (2017, August 29-September 2). *The importance of student variables in supporting self-regulated learning in online learning environments: A systematic review* [Symposium presentation]. European Association for Research on Learning and Instruction (EARLI), Tampere, Finland.
- Wong, J.,** Baars, M., Eielts, C., de Koning, B. B., Houben, G. J., & Paas, F. (2017, June 9). *Understanding and supporting self-regulated learning in Massive Open Online Courses: Preliminary findings from the serious gaming course* [Oral Presentation]. Leiden-Delft-Erasmus Centre of Education and Learning Innovation Room, Rotterdam, Netherlands.
- Wong, J.,** Baars, M., Davis, D., Van der Zee, T., Houben, G. J., & Paas, F. (2017, April 20). *Supporting self-regulated learning in online learning environments and MOOCs: A systematic review* [Poster presentation]. Interuniversity Centre for Educational Sciences (ICO) National Spring School, Utrecht, Netherlands.

## TEACHING

Course 2.1 Observational Skills – Practical (2016, 2017): Coordinator

Course 2.7 Writing Skills –Practical (2017): Tutor

Course 3.4 Learning and Instruction in Schools (2017, 2018): Co-instructor

Course 3.6 Developing 21<sup>st</sup> Century Skills and Education (2022): Learning Analytics: Guest lecturer

Course 4.3 Online Learning (2020, 2021): Guest lecturer

Digital Technology Interventions (2020): Guest lecturer

Education and ICT (2020): Guest lecturer

## AWARDS and SCHOLARSHIPS

Eric Duval Travel Scholarship (2000€ Travel Grant) | Society for Learning Analytics and Research (2018)

## REFERENCES

**Name:** Prof. Dr. Fred Paas

**Position:** Full professor of Educational Psychology, Erasmus University Rotterdam

**E-mail Address:** paas@essb.eur.nl

**Name:** Dr. Martine Baars

**Position:** Assistant professor of Educational Psychology, Erasmus University Rotterdam

**E-mail Address:** [baars@essb.eur.nl](mailto:baars@essb.eur.nl)

**Name:** Dr. Mohammad Khalil

**Position:** Senior researcher at University of Bergen, Norway

**E-mail Address:** mohammad.khalil@uib.no