

Guanliang Chen

Lecturer (a.k.a. Assistant Professor)

Faculty of Information Technology, Monash University, Melbourne, Australia

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Education

Ph.D. in Computer Science, Delft University of Technology

Delft, The Netherlands

Topic: Large-scale Learning Analytics

03/2015 - 12/2018

Advisors: Geert-Jan Houben & Claudia Hauff

M.Eng. in Software Engineering, South China University of Technology

Guangzhou, China

Topic: Context-aware Recommender Systems

09/2011 - 01/2014

Advisor: Jian Chen

B.Eng. in Software Engineering, South China University of Technology

Guangzhou, China

09/2007 - 07/2011

Research Experience

Lecturer, Monash University

Melbourne, Australia

Advisor: Dragan Gasevic

07/2019 - Now

- My research concentrates on applying language technologies to build effective educational applications.

Postdoctoral Researcher, Monash University

Melbourne, Australia

Advisor: Dragan Gasevic

01/2019 - 06/2019

- My research concentrates on applying language technologies to better support online learners as well as educational researchers, with particular focus on the analysis of intelligent tutoring dialogues and educational literature.

Ph.D. Candidate, Delft University of Technology

Delft, The Netherlands

Advisors: Geert-Jan Houben and Claudia Hauff

03/2015 - 12/2018

- The focus of my thesis was developing data-driven approaches for better modeling MOOC learners and retrieving/generating useful educational content through external sources, in particular, the Social Web.

Exchange Research Student, Hong Kong Baptist University

Hong Kong, China

Advisor: Li Chen

04/2013 - 01/2014

- I worked on mining context-dependent and context-independent preferences from user-generated reviews and further fusing them so as to improve recommendation performance.

Research Interests

Learning Analytics · Web Science · Natural Language Processing · Artificial Intelligence

Honors and Awards

- Best Student Paper, EC-TEL, 2016
- Best Student Paper Nominee, L@S, 2016
- Best Student Paper Nominee, UMAP, 2014
- Outstanding Thesis Award, South China University of Technology, 2014
- ICWSM Student Travel Grant (2018)
- Erik Duval SoLAR Travel scholarship (Learning Analytics Summer Institute), 2018
- UMAP Student Travel Grant (2014 & 2016)
- Research Grant Studentship by Hong Kong Baptist University (2013 - 2014)
- Chinese Government Scholarship for Graduates (2012 - 2013)

Professional Activities

– Talk –

- **Keynote**, *Understanding and Engaging MOOC Learners: A Data-driven Approach*, Doctoral Student Forum on MOOC Research, Peking University, China, 2017.

– Program Chair & Organization Committee –

- **Track Chair**, The 4th International Symposium on Emerging Technologies for Education, 2019
- **Co-chair**, Workshop on Integrated Learning Analytics of MOOC Post-Course Development (co-located with the International Conference on Learning Analytics and Knowledge), 2017
- **Co-organizer**, The 15th Dutch-Belgian Information Retrieval Workshop, 2016

– Program Committee Member –

- The International Conference on Learning Analytics and Knowledge (LAK), 2018 & 2019
- The International Symposium on Emerging Technologies for Education, 2018
- The International Conference on Web-based Learning (ICWL), 2017 & 2018
- The Global Chinese Conference on Computers in Education, 2018
- The 1st International Symposium on User Modeling and Language Learning, 2017
- Workshop on FutureLearn data (co-located with the International Conference on Learning Analytics and Knowledge), 2017
- The International Workshop on Semantic Computing and Personalization (co-located with the International Conference on Database for Advanced Application), 2016

– Invited Reviewer –

- Computers & Education, 2017 & 2018 & 2019
- The 12th International Conference on Educational Data Mining, 2019
- IEEE Transactions on Learning Technologies, 2017 & 2018
- IEEE Transactions on Systems, Man and Cybernetics: Systems, 2017
- ACM Computing Surveys, 2016
- International Journal of Distance Education Technologies, 2015

Teaching and Supervision

– Teaching –

- Guest Lecturer, *Web Science and Engineering* (Msc. course, Delft University of Technology), 2017 & 2018
- Guest Lecturer, *Social Web Data Analytics* (Msc. course, Amsterdam Institute for Advanced Metropolitan Solutions), 2017

– Supervision –

- Daily Supervisor, Master Thesis, Yingying Bao, *Thesis topic: Detecting Multiple-Accounts Cheating in MOOCs*, 2017

Publication

Google Scholar: h-index 9, i10-index 9, citations 365 (till March 2019)

– Refereed International Journals –

- J1. Dan Davis, Guanliang Chen, Claudia Hauff, Geert-Jan Houben (2018). *Activating Learning at Scale: A Review of Innovations in Online Learning Strategies*. **Computers & Education**, Vol. 125: 327-344.
- J2. Guanliang Chen, Dan Davis, Markus Krause, Efthimia Aivaloglou, Claudia Hauff, Geert-Jan Houben (2016). *From Learners to Earners: Enabling MOOC Learners to Apply Their Skills and Earn Money in an Online Market Place*. **IEEE Transactions on Learning Technologies**, Vol. 11(2): 264-274.
- J3. Guanliang Chen, Li Chen (2015). *Augmenting service recommender systems by incorporating contextual opinions from user reviews*. User Modeling and User-Adapted Interaction Journal (**UMUAI**), Vol. 25(3):295-329.
- J4. Li Chen, Guanliang Chen, Feng Wang (2015). *Recommender systems based on user reviews: the state of the art*. User Modeling and User-Adapted Interaction Journal (**UMUAI**), Vol. 25(2):99-154.

– Refereed International Conferences –

- C1. Guanliang Chen, David Lang, Rafael Ferreira, Dragan Gasevic. *Predictors of Student Satisfaction: A Large-scale Study of Human-Human Online Tutorial Dialogues*. In Proceedings of the 12th International Conference on Educational Data Mining (**EDM 2019**).
- C2. Guanliang Chen, Jie Yang, Dragan Gasevic. *A Comparative Study on Question-worthy Sentence Selection Strategies for Educational Question Generation*. In proceedings of the 20th International Conference on Artificial Intelligence in Education (**AIED 2019**).
- C3. Guanliang Chen, Jie Yang, Claudia Hauff, Geert-Jan Houben. *LearningQ: A Large-scale Dataset for Educational Question Generation*. In Proceedings of the 12th International AAAI Conference on Web and Social Media (**ICWSM 2018**).
- C4. Sepideh Mesbah, Guanliang Chen, Manuel Valle Torre, Alessandro Bozzon, Christoph Lofi, Geert-Jan Houben. *Towards User-Centric Online Learning Meta-Data: Concept Focus for MOOCs*. In Proceedings of the 13th European Conference on Technology Enhanced Learning (**EC-TEL 2018**).
- C5. Yingying Bao, Guanliang Chen, Claudia Hauff. *On the Prevalence of Multiple-Account Cheating in Massive Open Online Learning*. In Proceedings of the 10th International Conference on Educational Data Mining (**EDM 2017**).
- C6. Dan Davis, Ioana Jivet, René F. Kizilcec, Guanliang Chen, Claudia Hauff, Geert-Jan Houben. *Follow the Successful Crowd: Raising MOOC Completion Rates through Social Comparison at Scale*. In Proceedings of the 7th International Conference on Learning Analytics and Knowledge (**LAK 2017**).
- C7. Dan Davis, Guanliang Chen, Tim van der Zee, Claudia Hauff, Geert-Jan Houben. *Retrieval Practice and Study Planning in MOOCs: Exploring Classroom-Based Self-Regulated Learning Strategies at Scale*. In Proceedings of the 11th European Conference on Technology-Enhanced Learning (**EC-TEL 2016**). [**Best Student Paper**]
- C8. Guanliang Chen, Dan Davis, Claudia Hauff, Geert-Jan Houben. *On the Impact of Personality in Massive Open Online Learning*. In Proceedings of the 24th ACM International Conference on User Modeling, Adaptation and Personalization (**UMAP 2016**).
- C9. Dan Davis, Guanliang Chen, Claudia Hauff, Geert-Jan Houben. *Gauging MOOC Learners' Adherence to the Designed Learning Path*. In Proceedings of the 9th International Conference on Educational Data Mining (**EDM 2016**).
- C10. Guanliang Chen, Dan Davis, Jun Lin, Claudia Hauff, Geert-Jan Houben. *Beyond the MOOC platform: Gaining Insights about Learners from the Social Web*. In Proceedings of the 8th ACM Conference on Web Science (**WebScience 2016**).
- C11. Guanliang Chen, Dan Davis, Claudia Hauff, Geert-Jan Houben. *Learning Transfer: Does It Take Place in MOOCs? An Investigation into the Uptake of Functional Programming in Practice*. In Proceedings of the 3rd ACM Conference on Learning @ Scale (**L@S 2016**). [**Best Student Paper Nominee**]
- C12. Guanliang Chen, Li Chen. *Recommendation Based on Contextual Opinions*. In Proceedings of 22nd International Conference on User Modelling, Adaption and Personalization (**UMAP 2014**). [**Best Student Paper Nominee**]

– Editorial Contributions –

- E1. Elle Wang, Dan Davis, Guanliang Chen, Luc Paquette. *Workshop on Integrated Learning Analytics of MOOC Post-Course Development*. In Proceedings of the 7th International Conference on Learning Analytics and Knowledge (**LAK 2017**).

– Workshops & Posters & Others –

- M1. Guanliang Chen, Claudia Hauff, Geert-Jan Houben. *Feature Engineering for Second Language Acquisition Modeling*. In Proceedings of the 13th Workshop on Innovative Use of NLP for Building Educational Applications (**BEA 2018**).
- M2. Yue Zhao, Dan Davis, Guanliang Chen, Christoph Lofi, Claudia Hauff, Geert-Jan Houben. *Certificate Achievement Unlocked: Exploring MOOC Learners' Behaviour Before & After Passing*. In Proceedings of the 24th ACM International Conference on User Modeling, Adaptation and Personalization (**UMAP 2017**).
- M3. Guanliang Chen, Dan Davis, Markus Krause, Claudia Hauff, Geert-Jan Houben. *Buying Time: Enabling Learners to become Earners with a Real-World Paid Task Recommender System*. In Proceedings of the 7th International Conference on Learning Analytics and Knowledge (**LAK 2017**).
- M4. Dan Davis, Guanliang Chen, Ioana Jivet, Claudia Hauff, Geert-Jan Houben. *Encouraging Metacognition & Self-Regulation in MOOCs through Increased Learner Feedback*. In Proceedings of the LAK 2016 Workshop on Learning Analytics for Learners.
- M5. Jian Chen, Guanliang Chen, Haolan Zhang, Jin Huang, Gansen Zhao. *Social Recommendation Based on Multi-relational Analysis*. In IEEE/WIC/ACM International Conferences on Web Intelligence and Intelligent Agent Technology (**WI-IAT 2012**).