Guanliang **Chen**

PhD Candidate

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Education

Delft University of Technology *Delft, The Netherlands*
PhD Candidate, Topic: Large-scale Learning Analytics *03/2015 - 03/2019*

Hong Kong Baptist University *Hong Kong, China*
Exchange Research Student *04/2013 - 01/2014*

South China University of Technology *Guangzhou, China*
M.E. in Software Engineering *09/2011 - 01/2014*

South China University of Technology *Guangzhou, China*
B.E. in Software Engineering *09/2007 - 07/2011*

Research Interests

Web Science · Natural Language Processing · Deep Learning · Learning Analytics · User Modeling

Research Experience

Project: Large-scale Learning Analytics *Delft, The Netherlands*
Host: Delft University of Technology; Role: Core investigator

- Automate the process of educational question generation via Encoder-decoder sequence learning;
- Combine in-platform data (e.g., edX, Coursera) and out-platform data(i.e., Social Web) to better model and support online learners.

Project: Research on recommender systems based on user reviews *Hong Kong, China*
Host: Hong Kong Baptist University; Role: Co-investigator

- Improve recommendation performance via fusing context-dependent and context-independent preferences mined from user-generated reviews.

Project: Research on Multi-relational social recommendation *Guangzhou, China*
Host: South China University of Technology; Role: Co-investigator

- Enhance recommendation performance by using the multiple social relations between users.

Professional Activities

Talks

- Keynote speaker, "Understanding and Engaging MOOC Learners: A Data-driven Approach//, Doctoral Student Forum on MOOC Research (PKU-2017), 2017

Workshop Organizer

- Co-organizer, Workshop on Integrated Learning Analytics of MOOC Post-Course Development, co-located with the 7th International Conference on Learning Analytics and Knowledge (LAK '17), 2017
- Co-organizer, The 15th Dutch-Belgian Information Retrieval Workshop, 2016

Program Committee Member

- The 8th International Conference on Learning Analytics and Knowledge (LAK'18), 2018
- The 16th International Conference on Web-based Learning (ICWL'17), 2017
- Workshop on FutureLearn data: what we currently have, what we are learning and how it is demonstrating learning in MOOCs, co-located with the 7th International Conference on Learning Analytics and Knowledge (LAK '17), 2017

- The 3rd International Workshop on Semantic Computing and Personalization (SeCoP 2016), co-located with the 21th International Conference on Database for Advanced Application (DASFAA), 2016

Invited Reviewer

- Computers Education (2017, 2018)
- IEEE Transactions on Learning Technologies (2017)
- IEEE Transactions on Systems, Man and Cybernetics: Systems (2017)
- ACM Computing Surveys (2016)
- International Journal of Distance Education Technologies (IJDET) (2015)

Selected Awards

- UMAP Student Travel Grant (2014, 2016)
- Research Grant Studentship by Hong Kong Baptist University (2013 - 2014)
- Chinese Government Scholarship for Graduates (2012 - 2013)

Supervision and Teaching

- 2017, Guest Lecturer, Methods in Social Web Data Analytics & Web Science (Msc. course in TU Delft)
- 2017, Guest Lecturer, Social Web Data Analytics (Msc. course in AMS Institute)
- 2016 - 2017, Co-supervisor, Yingying Bao (Msc.), *Thesis topic: Detecting Multiple-Accounts Cheating in MOOCs*

Publication

– 2017 –

- Yingying Bao, **Guanliang Chen**, Claudia Hauff (2017). On the Prevalence of Multiple-Account Cheating in Massive Open Online Learning. In Proceedings of the 10th International Conference on Educational Data Mining, Wuhan, China. EDM '17. (Short paper)
- **Guanliang Chen**, Dan Davis, Markus Krause, Claudia Hauff and Geert-Jan Houben (2017). 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, pp. 578–579, Vancouver, Canada. LAK'17. (Poster paper)
- Dan Davis, Ioana Jivet, René F. Kizilcec, **Guanliang Chen**, Claudia Hauff, Geert-Jan Houben (2017). 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, pp. 454–463, Vancouver, Canada. LAK'17.
- Elle Wang, Dan Davis, **Guanliang Chen**,, Luc Paquette (2017). Workshop on Integrated Learning Analytics of MOOC Post-Course Development. In Proceedings of the 7th International Conference on Learning Analytics and Knowledge, pp. 506–507, Vancouver, Canada. LAK'17.

– 2016 –

- **Guanliang Chen**, Dan Davis, Markus Krause, Efthimia Aivaloglou, Claudia Hauff and Geert-Jan Houben. Can Learners be Earners? Investigating a Design to Enable MOOC Learners to Apply their Skills and Earn Money in an Online Market Place. IEEE Transactions on Learning Technologies.
- Dan Davis, **Guanliang Chen**, Tim van der Zee, Claudia Hauff, Geert-Jan Houben (2016). 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, Lyon, France. EC-TEL '16. **[Best Student Paper Award]**
- **Guanliang Chen**, Dan Davis, Claudia Hauff and Geert-Jan Houben (2016). On the Impact of Personality in Massive Open Online Learning. In Proceedings of the 24th ACM International Conference on User Modeling, Adaptation and Personalisation, pp. 121–130, Halifax, Canada. UMAP'16, ACM.
- Dan Davis, **Guanliang Chen**, Claudia Hauff, Geert-Jan Houben (2016). Gauging MOOC Learners' Adherence to the Designed Learning Path. In Proceedings of the 9th International Conference on Educational Data Mining, Raleigh, North Carolina, USA. EDM '16.
- **Guanliang Chen**, Dan Davis, Jun Lin, Claudia Hauff and Geert-Jan Houben (2016). Beyond the MOOC platform: Gaining Insights aboutLearners from the Social Web. In Proceedings of the 8th ACM Conference on Web Science, pp. 15–24, Hannover, Germany. WebSci '16, ACM.

- **Guanliang Chen**, Dan Davis, Claudia Hauff and Geert-Jan Houben (2016). Learning Transfer: Does It Take Place in MOOCs? An Investigation into the Uptake of Functional Programming in Practice. In Proceedings of the Third ACM Conference on Learning @ Scale, pp. 409–418, Edinburgh, UK. L@S'16, ACM. **[Honorable Mention Award]**

- Dan Davis, **Guanliang Chen**, Ioana Jivet, Claudia Hauff, Geert-Jan Houben (2016). Encouraging Metacognition Self-Regulation in MOOCs through Increased Learner Feedback. In Learning Analytics and Knowledge 2016 Learning Analytics for Learners Workshop.

– 2015 –

- **Guanliang Chen**, Li Chen (2015). Augmenting service recommender systems by incorporating contextual opinions from user reviews. User Modeling and User-Adapted Interaction Journal (UMUAI), Special Issue on User Modeling in Ubiquitous Computing Vol. 25(3):295-329.

- 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.

– 2014 –

- **Guanliang Chen**, Li Chen (2014). Recommendation Based on Contextual Opinions. In Proceedings of 22nd International Conference on User Modelling, Adaption and Personalisation, pp. 61-73, Aalborg, Denmark. UMAP'14, Springer. **[Best Student Paper Nominee]**

– 2012 –

- Jian Chen, **Guanliang Chen**, Haolan Zhang, Jin Huang, Gansen Zhao (2012). Social Recommendation Based on Multi-relational Analysis. In IEEE/WIC/ACM International Conferences on Web Intelligence and Intelligent Agent Technology, pp. 471-477, Macau, China. WI-IAT'12, IEEE.