

# Yeyu Wang Curriculum Vitæ

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## Research Interest

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Learning Analytics, Quantitative Ethnography, Multimodal Data Analytics.

## Education

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- 09/2019 – present **University of Wisconsin – Madison, USA**  
Ph.D. in Educational Psychology  
Educational Psychology Department  
Advisor: David Williamson Shaffer
- 09/2017 – 08/2018 **Carnegie Mellon University, USA**  
Master of Educational Technology and Applied Learning Science (METALS)  
Human-Computer Interaction Institute  
Advisor: Bruce McLaren
- 09/2013 – 07/2017 **Beijing Normal University, China**  
Bachelor of Science in Educational Technology  
School of Educational Technology  
Advisor: Jingjing Zhang

## Professional Experience

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- 09/2018 – 08/2019 **Penn Center for Learning Analytics, the University of Pennsylvania, USA**  
Research Assistant  
Advisor: Ryan S. Baker  
Coordinated studies in classroom and facilitated data collection; conducted preprocessing and feature engineering in Physics Playground; built early detectors for wheel-spinning in ASSISTments; and supported the running of MOOC called Big Data and Education in edX.

## Peer-Reviewed Conference Papers

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- [C.10] **Wang, Y.**, Ruis, A. R., Shaffer, D., (2021) Modeling Collaborative Discourse with ENA using a Probabilistic Function. Accepted by *International Conference on Quantitative Ethnography*, Denmark.
- [C.9] Barany, A., **Wang, Y.**, Shaffer, D. W., & Foster, A., (2021) Who I Am, What I Know, and What I Want: An Epistemic Network Analysis of Student Identity Exploration. In proceedings of *International Conference of Computer Supported Collaborative Learning (CSCL)*, online.
- [C.8] Fogel, A., Swiecki, Z., Marquart, C., Cai, Z., **Wang, Y.**, Brohinsky, J., ... & Shaffer, D. W. (2021, February). Directed Epistemic Network Analysis. In proceedings of *International Conference on Quantitative Ethnography* (pp. 122-136). Springer, Cham.

- [C.7] Bowman, D., Swiecki, Z., Cai, Z., **Wang, Y.**, Eagan, B., Linderoth, J., & Shaffer, D. W. (2021, February). The Mathematical Foundations of Epistemic Network Analysis. In proceedings of *International Conference on Quantitative Ethnography* (pp. 91-105). Springer, Cham.
- [C.6] **Wang, Y.**, Swiecki, Z., Ruis, A. R., & Shaffer, D. W. (2021, February). Simplification of Epistemic Networks Using Parsimonious Removal with Interpretive Alignment. In proceedings of *International Conference on Quantitative Ethnography* (pp. 137-151). Springer, Cham.
- [C.5] **Wang, Y.**, Kai, S., & Baker, R. S. (2020, July). Early Detection of Wheel-Spinning in ASSISTments. In proceedings of *International Conference on Artificial Intelligence in Education* (pp. 574-585). Springer, Cham.
- [C.4] Slater, S., Baker, R.S., **Wang, Y.** (2020) Iterative Feature Engineering Through Text Replays of Model Errors. In Proceedings of The 13th *International Conference on Educational Data Mining* (EDM 2020) (pp. 503-508).
- [C.3] **Wang, Y.**, Nguyen, H., Harpstead, E., Stamper, J., & McLaren, B. M. (2019, June). How Does Order of Gameplay Impact Learning and Enjoyment in a Digital Learning Game?. In proceedings of *International Conference on Artificial Intelligence in Education* (pp. 518-531). Springer, Cham.
- [C.2] Nguyen, H., **Wang, Y.**, Stamper, J., & McLaren, B.M. (2019). Using knowledge component modeling to increase domain understanding in a digital learning game. In proceedings of the 12th *International Conference on Educational Data Mining* (EDM 2019). (pp. 139-148).
- [C.1] Nguyen, H., Harpstead, E., **Wang, Y.**, & McLaren, B. M. (2018, June). Student agency and game-based learning: A study comparing low and high agency. In proceedings of *International Conference on Artificial Intelligence in Education* (pp. 338-351). Springer, Cham.

## Journal Papers

- [J.1] Fan, Y., Tan, Y., Raković, M., **Wang, Y.**, Cai, Z., Shaffer, D. W., & Gašević, D. (2022). Dissecting learning tactics in MOOC using ordered network analysis. *Journal of Computer Assisted Learning*. 1– 13.

## Workshop, Symposia, and Posters

- [A.4] **Wang, Y.** & Swiecki, Z. (2021). Advanced ENA and rENA. Workshop in *International Conference on Quantitative Ethnography 2021*.
- [A.3] Shaffer, D.W., Barany, A., & **Wang, Y.** (2021). Advanced ENA Interpretations. Workshop in *International Conference on Quantitative Ethnography 2020*.
- [A.2] Swiecki, Z., Kovanović, V., & **Wang, Y.**, (2021). Advanced ENA and rENA. Workshop in *International Conference on Quantitative Ethnography 2020*.
- [A.1] **Wang, Y.**, Fogel, A., Tunstall, J., & Brohinsky, J. (2019). Bimodal Epistemic Network Analysis: Parsing the Democratic Debates. Poster presented in *International Conference on Quantitative Ethnography 2019*.

## Awards and Honors

- 10/2022 Best student paper nominee for *International Conference on Quantitative Ethnography 2022*.

09/2019 – Selected scholar by Training Program in Prevention, Intervention, and Enhancement  
08/2023

## Teaching and Invited Talks

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09/2021- Teaching assistant for EDPSYCH525: Learning Analytics Theory and Practice, Master of Learning  
05/2022 Analytics, Department of Educational Psychology, UW-Madison.

12/2021 Research workshop about Epistemic Network Analysis invited by Professor Li Chen, in School of  
Educational Technology, Beijing Normal University, China

09/2021- Teaching assistant for EDPSYCH560: Foundations of Quantitative and Qualitative Research  
12/2021 Method, Master of Learning Analytics, Department of Educational Psychology, UW-Madison.

12/2019 Research workshop about Epistemic Network Analysis invited by Professor Jingjing Zhang, in  
School of Educational Technology, Beijing Normal University, China

## Skills

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R, Python, RapidMiner.

## Mentoring

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04/2020 **QE-COVID Data Challenge Team: Mamta Shah, Mohamad Noorman Masrek, Sukie  
Wang, Meixi**

A Brief Examination of Twitter Feed on #RemoteLearning To Explore the Discourse Around  
Teaching and Learning During the COVID-19 Pandemic

<https://sites.google.com/wisc.edu/qe-covid-data-challenge/participants?authuser=0>

03/2021- **Mentoring Research Interns in Epistemic Analytics Lab: Ziling Hu.**  
11/2022