Binglin Chen

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Academic Interest

Machine Learning • Education

Education

2015-2022 PhD in Computer Science, University of Illinois at Urbana-Champaign
2010-2014 BS in Computer Science, University of Illinois at Urbana-Champaign

Employment

2022-now Postdoctoral researcher, University of Illinois at Urbana-Champaign
2014-2015 Algorithm Software Developer, Eko Devices, Inc.
2014 Software Development Engineer, Amazon.com, Inc.

Conference Publications

2023 Max Fowler, David Smith, Binglin Chen, and Craig Zilles. "I Don't Gamble To Make My Livelihood": Understanding the Incentives For, Needs Of, and Motivations Surrounding Open Educational Resources in Computing *ACM Conference on International Computing Education Research **(ICER)***, 2023

2022 Binglin Chen, Matthew West, and Craig Zilles. Peer-grading "Explain in Plain English" A Bayesian Calibration Method for Categorical Answers *ACM Technical Symposium on Computer Science Education **(SIGCSE)***, 2022

2021 Max Fowler, Binglin Chen, and Craig Zilles. How should we 'Explain in plain English'? Voices from the Community *ACM Conference on International Computing Education Research **(ICER)***, 2021

2021 Max Fowler, Binglin Chen, Sushmita Azad, Matthew West, and Craig Zilles. Autograding "Explain in Plain English" questions using NLP *ACM Technical Symposium on Computer Science Education **(SIGCSE)***, 2021

2020 Binglin Chen, Sushmita Azad, Max Fowler, Matthew West, and Craig Zilles. Learning to Cheat: Quantifying Changes in Score Advantage of Unproctored Assessments Over Time. *ACM Conference on Learning at Scale **(L@S)***, 2020

2020 Sushmita Azad, Binglin Chen, Max Fowler, Matthew West, and Craig Zilles. Strategies for deploying unreliable AI graders in high-transparency high-stakes exams. *Artificial Intelligence in Education **(AIED)***, 2020

2020 Binglin Chen, Sushmita Azad, Rajarshi Haldar, Matthew West, and Craig Zilles. A Validated Scoring Rubric for Explain-in-Plain-English Questions. *ACM Technical Symposium on Computer Science Education **(SIGCSE)***, 2020

2019 Binglin Chen, Matthew West, and Craig Zilles. Predicting the difficulty of automatic item generators on exams from their difficulty on homeworks. *ACM Conference on Learning at Scale **(L@S)***, 2019

2019 Binglin Chen, Craig Zilles, Matthew West, and Timothy Bretl. Effect of discrete and continuous parameter variation on difficulty in automatic item generation. *Artificial Intelligence in Education*

(AIED), 2019

2018 Binglin Chen, Matthew West and Craig Zilles. Towards a Model-Free Estimate of the Limits to Student Modeling Accuracy. *Educational Data Mining* ***(EDM)***, 2018

2018 Binglin Chen, Matthew West and Craig Zilles. How Much Randomization is Needed to Deter Collaborative Cheating on Asynchronous Exams? *ACM Conference on Learning at Scale* ***(L@S)***, 2018

2017 Binglin Chen, Matthew West and Craig Zilles. Do Performance Trends Suggest Wide-spread Collaborative Cheating on Asynchronous Exams? *ACM Conference on Learning at Scale* ***(L@S)***, 2017

2013 Xiao Cheng, Binglin Chen, Rajhans Samdani, Kai-Wei Chang, Zhiye Fei, Mark Sammons, John Wieting, Subhro Roy, Chizheng Wang, and Dan Roth. Illinois Cognitive Computation Group UI-CCG TAC 2013 Entity Linking and Slot Filler Validation Systems. *Text Analysis Conference* ***(TAC)***, 2013

Journal Publications

2019 Binglin Chen, Matthew West, and Craig Zilles. Analyzing the decline of student scores over time in self-scheduled asynchronous exams. *Journal of Engineering Education*, 2019

Teaching

S 2022 CS 105 Intro Computing: Non-Tech @ UIUC. Teaching Assistant

F 2021 CS 105 Intro Computing: Non-Tech @ UIUC. Teaching Assistant

S 2021 CS 105 Intro Computing: Non-Tech @ UIUC. Teaching Assistant

S 2018 CS 498 Applied Machine Learning @ UIUC. Teaching Assistant