# Binglin Chen

Email: chen386@illinois.edu
Website: https://chen386.github.io/

## Education

2022 (Expected) PhD in Computer Science, University of Illinois at Urbana-Champaign

- Qual Area: Artificial Intelligence

2014 BS in Computer Science, University of Illinois at Urbana-Champaign

## Research

Graduate Research Assistant @ University of Illinois at Urbana-Champaign

- Analyzed asynchronous exams to understand students' behaviors in them
- Analyzed randomization as a way to deter cheating in asynchronous exams
- Developed NLP autograders for Explain-in-Plain-English questions, and deployed in class of 600+ students

## Employment

2014–2015 Software Development Engineer, Eko Devices, Inc.
2014 Software Development Engineer Intern, Amazon.com, Inc.

## 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*

## Conference publications

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

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

2020 Binglin Chen, Sushmita Azad, Max Fowler, Matthew West, Craig Zilles. Learning to cheat: quantifying changes in score advantage of unproctored assessments over time. *ACM Conference on Learning at Scale*

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*
**Nominated for Best Paper**

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*

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*

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*

2018 Binglin Chen, Matthew West, and Craig Zilles. Towards a model-free estimate of the limits to student modeling accuracy. *Educational Data Mining*

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*

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*

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 UICCG TAC 2013 entity linking and slot filler validation systems. *Text Analysis Conference*

## Teaching

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

- Developed framework for managing peer grading and computing grades using Bayesian inference
- Led lab sections with 50 students, supervised undergraduate course assistants
- Held office hours

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

- Held office hours