

Ti-Chung Cheng

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EDUCATION

Ph.D. Computer Science, University of Illinois at Urbana-Champaign	2020 - Present
Advised by Prof. Karrie Karahalios & Prof. Hari Sundaram	
M.Sc. Computer Science, University of Illinois at Urbana-Champaign	2018 - 2020
Advised by Prof. Karrie Karahalios, Prof. Hari Sundaram, and Prof. Aditya Parameswaran	
Thesis: "Comparing Quadratic Voting and Likert Surveys"	
B.Sc. Computer Science with Business Economics Minor, The Chinese University of Hong Kong	2013 - 2017
Final Year Project: "Efficient nearest-neighbor search in Distributed Manner" advised by Prof. James Cheng	

RESEARCH INTEREST

- [R1] Understand how mechanism design in systems influenced decision makings for individuals and teams.
- [R2] Build and design end-user data analytic system, ie. visualization and spreadsheet tools, to facilitate better decision making

RESEARCH AND WORK EXPERIENCE

Software Engineer Intern, Salesforce	Summer 2020
Software Engineer Intern, Salesforce	Summer 2019
Graduate Research Assistant, UIUC	Jan 2019 - May 2019
Machine Learning Research Intern, KKBOX	Summer 2018
Undergraduate Research Assistant, CUHK	Dec 2015 - Dec 2017
Summer Research Intern, CUHK	Summer 2015

PUBLICATIONS

[In preparation] Understanding How People Modify Spreadsheets

Ti-Chung Cheng, Tana Wattanawaroon, Aditya Parameswaran, Karrie Karahalios.

[In submission] "I can show what I really like.": Eliciting Preferences via Quadratic Voting

Ti-Chung Cheng*, Tiffany Wenting Li*, Yi-Hung Chou, Karrie Karahalios, Hari Sundaram, *Proceedings of the 2021 ACM Conference on Computer Supported Cooperative Work and Social Computing, CSCW 2021*

[P2] Understanding Data Analysis Workflows on Spreadsheets: Roadblocks and Opportunities.

Pingjing Yang, Ti-Chung Cheng*, Sajjadur Rahman*, Mangesh Bendre, Karrie Karahalios, Aditya Parameswaran. *Workshop on Human-In-the-Loop Data Analytics (HILDA) at SIGMOD, June 2020., HILDA 2020*

[P1] A General and Efficient Querying Method for Learning to Hash.

Jinfeng Li, Xiao Yan, Jian Zhang, An Xu, James Cheng, Jie Liu, Kelvin K. W. Ng, Ti-Chung Cheng. *SIGMOD '18: ACM SIGMOD Int'l Conf. on Management of Data, Houston, USA, 2018.*

TEACHING EXPERIENCE

CS 411 Database Systems, Teaching Assistant, UIUC	FA 2020
CS 242 Programming Studio, Head Teaching Assistant, UIUC	FA 2019, SP 2020
CS 242 Programming Studio, Teaching Assistant, UIUC	FA 2018
CSCI 2040 Introduction to Python, Course Assistant, CUHK	FA 2017

AWARDS

The Chinese University of Hong Kong Morningside College Academic Scholarship 2016-17	2017
HKSAR Government Reaching Out Award and Scholarship 2013-14	2014

SERVICE

MUSE Mentor, University of Illinois at Urbana-Champaign	FALL 2019
Initiator and coordinator, The Circle Group	Oct 2016 - Dec 2017
Information Officer, CUHK, Taiwanese Student Association	Oct 2015 - Oct 2016
Project Coordinator and Volunteer, CUHK, Morningside College	Oct 2013 - May 2014

*Equal Contribution