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EDUCATION

- The University of Michigan, Ann Arbor UNITED STATES OF AMERICA
Ph.D. in Computer Science and Engineering 2015 – 2020
Advisor: Grant Schoenebeck.
Thesis: Complexity, Algorithms, and Heuristics of Influence Maximization
Cumulative GPA: **4.0/4.0**.
- Nanyang Technological University REPUBLIC OF SINGAPORE
Project Officer in Division of Mathematical Sciences 2012 – 2015
I taught Calculus, Linear Algebra, Discrete Mathematics, and Algorithm & Computing.
- Nanyang Technological University REPUBLIC OF SINGAPORE
B.S. in Mathematical Sciences 2008 – 2012
I earned a first class honour degree with GPA **4.92/5.00**, with a minor in computing.
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PUBLICATIONS

(★ indicates paper in theoretical computer science or mathematics, and authors are ordered alphabetically by convention;
- indicates authorship by contribution.)

- ★ Grant Schoenebeck and Biaoshuai Tao. "Influence Maximization on Undirected Graphs: Towards Closing the $(1 - 1/e)$ Gap."
Journal Full Version: *ACM: Transactions on Economics and Computation*. 2020.
Conference Version: *EC 2019: The 20th ACM Conference on Economics and Computation*. 2019.
- ★ Grant Schoenebeck, Biaoshuai Tao and Fang-Yi Yu. "Limitations of Greed: Influence Maximization in Undirected Networks Re-visited." *International Conference on Autonomous Agents and Multi-Agent Systems*, 2020.
- ★ Wei Chen, Binghui Peng, Grant Schoenebeck and Biaoshuai Tao. "Adaptive Greedy versus Non-adaptive Greedy for Influence Maximization." *Thirty-Forth AAI Conference on Artificial Intelligence*, 2020.
- ★ Yuqing Kong, Grant Schoenebeck, Biaoshuai Tao and Fang-Yi Yu. "Information Elicitation Mechanisms for Statistical Estimation." *Thirty-Forth AAI Conference on Artificial Intelligence*, 2020.
- ★ Yuqing Kong, Chris Peikert, Grant Schoenebeck and Biaoshuai Tao. "Outsourcing Computation: the Minimal Refereed Mechanism." *WINE 2019: The 15th Conference on Web and Internet Economics*. 2019.

- * Grant Schoenebeck, Biaoshuai Tao and Fang-Yi Yu. "Think Globally, Act Locally: On the Optimal Seeding for Nonsubmodular Influence Maximization." *RANDOM 2019: International Conference on Randomization and Computation*. 2019.
- * Grant Schoenebeck and Biaoshuai Tao. "Beyond Worst-Case (In)approximability of Nonsubmodular Influence Maximization."
Journal Full Version: *ACM: Transactions on Computation Theory (TOCT)*. 2019.
Conference Version: *WINE 2017: The 13th Conference on Web and Internet Economics*. 2017.
- Andrew Gitlin, Biaoshuai Tao, Laura Balzano and John Lipor. "Improving K-Subspaces via Coherence Pursuit." *IEEE Journal of Selected Topics in Signal Processing*. 2018.
- * Xiaohui Bei, Ning Chen, Guangda Huzhang, Biaoshuai Tao and Jiajun Wu. "Cake Cutting: Envy and Truth." *Proceedings of the Twenty-Sixth International Joint Conference on Artificial Intelligence, Main track*. 3625-3631, 2017.
- Biaoshuai Tao and Hongjun Wu. "Improving the Biclique Cryptanalysis of AES." *Australasian Conference on Information Security and Privacy*. Springer International Publishing, 2015.
- * Fedor Duzhin and Biaoshuai Tao. "On Computational Complexity of Plane Curve Invariants." *Online Journal of Analytic Combinatorics* 9, 2014.
- * Xiaohui Bei, Ning Chen, Xia Hua, Biaoshuai Tao and Endong Yang. "Optimal Proportional Cake Cutting with Connected Pieces." *Association for the Advancement of Artificial Intelligence*, 2012.

MANUSCRIPTS AND TECHNICAL REPORTS

(* indicates alphabetical authorship; - indicates authorship by contribution.)

- Biaoshuai Tao and Laura Balzano. "On the Hardness of K -Subspaces." Technical report appended to my paper "Improving K-Subspaces via Coherence Pursuit."

TEACHING EXPERIENCE

Graduate Student Instructor	University of Michigan
EECS 376: Foundations of Computer Science	2019
EECS 547: Electronic Commerce	2017
Project Officer	Nanyang Technological University
MH1800: Calculus for the Sciences I	2015
MH1402: Algorithm and Computing II	2015
MH1301: Discrete Mathematics	2015
MH1201: Linear Algebra II	2014
MH1301: Discrete Mathematics	2014
MH1301: Discrete Mathematics	2013
MH1100/MTH112: Calculus I	2013