

Haoming Li

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EDUCATION

- **Duke University** Durham, NC
M.S., Economics and Computation *Sep 2018 - present*
- **Rensselaer Polytechnic Institute** Troy, NY
B.S., Computer Science and Economics (Dual major), summa cum laude; GPA: 3.91 *Sep 2014 - May 2018*
 - **Related Courses:** Approximation Algorithms, Game Theory, Graph Theory, Machine Learning, Econometrics

PUBLICATIONS AND PRESENTATIONS

- Sujoy Sikdar, Rohit Vaish, Haoming Li, Junming Wang, Lirong Xia. Minimizing Time to Rank by Sorting: A Learning and Recommendation Approach. Submitted to the *32nd Conference on Neural Information Processing Systems (NIPS 2018)*, Montreal, Quebec, Canada, 2018.
- Zhibing Zhao, Haoming Li, Junming Wang, Jeffrey Kephart, Nicholas Mattei, Hui Su and Lirong Xia. A Cost-Effective Framework for Preference Elicitation and Aggregation. In *Proceedings of the 34th Conference on Uncertainty in Artificial Intelligence (UAI-2018)*, Monterey, California, USA, 2018. [arXiv]
- Haoming Li, Lirong Xia and Zhibing Zhao. Eliciting Preferences By Comparing Candidates. At the *6th IBM Research Cognitive Colloquium*, Yorktown Heights, New York, USA, 2017. [Poster] [Youtube]

WORK EXPERIENCE

- **Tencent America** Palo Alto, CA
Software Engineer (Internship) *May 2016 - Aug 2016*
 - **Database Synchronization:** Designed and implemented a database script for WeChat client The House Club, which updates the database of a WordPress site every 15 minutes with housing data from MLS providers.
 - **Website Builder:** Created a fully responsive, multilingual template website for single property listing, along with a web app that, given the details and gallery of a property, one-click-generates live-ready website.
- **FiberHome Telecommunication** Nanjing, China
Software Engineer (Internship) *Jun 2015 - Aug 2015*
 - **Software Optimization:** Designed and implemented a searching algorithm related to Aho-Corasick algorithm, fuzzy pattern matching and finite-state automaton. The software runs twice as fast since.
 - **Client Visits:** Set up and configured new version of the product on clients' servers.

RESEARCH/TEACHING EXPERIENCE

- **Cognitive and Immersive Systems Lab** Troy, NY
Undergraduate Researcher supervised by IBM Research *Apr 2017 - Apr 2018*
 - **Preference Elicitation in Collaborative Decision-Making:** Implemented a criterion of Bayesian experimental design to elicit preferences under General Random Utility Model by asking agents to rank-order sets of candidates.
 - **Online Voting System:** A website (opra.io) that implements 15 polling and allocation mechanisms and 5 voting interfaces to help group decision-making.
- **Rensselaer Polytechnic Institute** Troy, NY
Undergraduate Mentor in Introduction to Algorithms *Sept 2016 - Dec 2017*
 - **Labs and Recitations:** Tutored students in divide-and-conquer, randomized algorithms, graph theory, running time analysis, greedy algorithms and dynamic programming, and NP-Completeness.