Junxing Wang

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Education

- **Carnegie Mellon University** — Pittsburgh, PA
  Ph.D., Computer Science Department — Sept. 2014 – now
  – Advisor: **Professor Gary L. Miller**
- **Tsinghua University** — Beijing, China
  B.E., Institute for Interdisciplinary Information Sciences — Sept. 2010 – July. 2014
  – Enrolled in **Yao Class**, a pilot CS class directed by **Prof. Andrew Chi-Chih Yao**.

Publications

- Timothy Chu, Yu Gao, Richard Peng, Sushant Sachdeva, Saurabh Sawlani, **Junxing Wang**. Graph Sparsification, Spectral Sketches, and Faster Resistance Computation, via Short Cycle Decompositions. FOCS 2018.
- Matthew Fahrbach, Gary L. Miller, Richard Peng, Saurabh Sawlani, **Junxing Wang**, Shen Chen Xu. Graph Sketching Against Adaptive Adversaries Applied to the Minimum Degree Algorithm. FOCS 2018.
- Ioannis Caragiannis, David Kurokawa, Herv Moulin, Ariel D. Procaccia, Nisarg Shah, **Junxing Wang**. The Unreasonable Fairness of Maximum Nash Welfare. ACM Transactions on Economics and Computation. Special issue on selected papers from EC-16.
- David Kurokawa, Ariel D. Procaccia, **Junxing Wang**. Fair Enough: Guaranteeing Approximate Maximin Shares. Journal of the ACM 65(2), article 8, Feb 2018.
- Ariel D. Procaccia, **Junxing Wang**. A Lower Bound for Equitable Cake Cutting. EC-17: Proc. 18th ACM Conference on Economics and Computation, pp. 479-495, June 2017.
- Ioannis Caragiannis, David Kurokawa, Herv Moulin, Ariel D. Procaccia, Nisarg Shah, **Junxing Wang**. The Unreasonable Fairness of Maximum Nash Welfare. EC-16: Proc. 17th ACM Conference on Economics and Computation, pp. 305-322, Jul 2016. Superceded by the TEAC paper above.
- David Kurokawa, Ariel D. Procaccia, **Junxing Wang**. When Can the Maximin Share Guarantee Be Guaranteed? AAAI-16: Proc. 30th AAAI Conference on Artificial Intelligence, pp. 523-529, Feb 2016.
- Ariel D. Procaccia and **Junxing Wang**. Fair Enough: Guaranteeing Approximate Maximin Shares. EC-14: Proc. 15th ACM Conference on Economics and Computation, pp. 675-692, Jun 2014. Superceded by the JACM paper above. Best student paper award at EC-14.
- **Junxing Wang**, A simple Byzantine Generals protocol, Journal of Combinatorial Optimization, 2012, 10.1007/s10878-012-9534-3.

Talks

- Graph Sketching Against Adaptive Adversaries Applied to the Minimum Degree Algorithm. FOCS 2018.
- A Lower Bound for Equitable Cake Cutting. ACM-EC 17.

- The Unreasonable Fairness of Maximum Nash Welfare. ACM-EC 16.
- Fair Enough: Guaranteeing Approximate Maximin Shares. ACM-EC 14.

Awards and Honors

- **Best Student Paper Award**, ACM-EC, 2014.
- **Outstanding graduates from Tsinghua University**, 2014.

Internships

- **Research Intern** — Microsoft Research Asia, China
  Game Theory, Internet Economics, Computational Advertising — Apr. 2013 – July. 2013
  – Advised by **Tie-yan Liu**, **Tao Qin**
- **Research Intern** — Microsoft Research Cambridge, UK
  Game Theory, Internet Economics — June. 2015 – August. 2015
  – Advised by **Ian A. Kash**

Services

- Reviewer IJCAI-16, WINE 2016, WADS 2017, RANDOM 2017, WADS 2019