Biographical Sketch

Dr. Jamie H. Morgenstern

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(a) Professional Preparation

The University of Chicago, Chicago, IL; Mathematics and Computer Science; B.A./B.S 2010
Carnegie Mellon University, Pittsburgh, PA; Computer Science; M.S., 2012
Carnegie Mellon University, Pittsburgh, PA; Computer Science; Ph.D., 2015
The University of Pennsylvania, Philadelphia, PA; Computer Science & Eng.; Postdoctoral Researcher, 2015–2017

(b) Appointments

2018–present: **Assistant Professor**, Georgia Institute of Technology, Atlanta, GA

Fall 2017: **Visiting Researcher**, Microsoft Research, New York, New York

2015–2017: **Postdoctoral Researcher**, University of Pennsylvania, Philadelphia, PA

2013 **Research Intern**, Microsoft Research, Redmond, WA

2012 **Research Intern**, Alcatel Lucent Technologies, Murray Hill, NJ

(c) Publications

[1] A. Blum, Y. Mansour, and J. Morgenstern. Learning what's going on: reconstructing preferences and priorities from opaque transactions. In *Proceedings of the 16th ACM conference on Economics and Computation (ACM EC'15)*, pages 601–618. ACM, 2015.

[2] T. Gebru, J. Morgenstern, B. Vecchione, J. W. Vaughan, H. Wallach, H. Daumeé III, and K. Crawford. Datasheets for datasets. *arXiv preprint arXiv:1803.09010*, 2018.

[3] J. Hsu, J. Morgenstern, R. Rogers, A. Roth, and R. Vohra. Do prices coordinate markets? In *STOC 2016*, 2015.

[4] S. Jabbari, M. Joseph, M. Kearns, J. Morgenstern, and A. Roth. Fairness in reinforcement learning. In D. H. Fisher, editor, *Proceedings of the 34th International Conference on Machine Learning(ICML)*, pages 1617–1626. Morgan-Kaufmann, 2017.

[5] M. Joseph, M. Kearns, J. H. Morgenstern, and A. Roth. Fairness in learning: Classic and contextual bandits. In D. Lee, M. Sugiyama, U. Luxburg, I. Guyon, and R. Garnett., editors, *Proceedings of the 30th Annual Conference on Neural Information Processing Systems (NIPS)*, pages 325–333, 2016.

[6] S. Kannan, M. Kearns, J. Morgenstern, M. Pai, A. Roth, R. Vohra, and Z. S. Wu. Fairness incentives for myopic agents. In *Proceedings of the 18th ACM conference on Economics and Computation (ACM EC'17)*, pages 369–386, 2017.

[7] S. Kannan, J. Morgenstern, A. Roth, B. Waggoner, and Z. S. Wu. A smoothed analysis of the greedy algorithm for the linear contextual bandit problem. *arXiv preprint arXiv:1801.03423*, 2018.

[8] S. Kannan, J. Morgenstern, A. Roth, and Z. S. Wu. Approximately stable, school optimal, and student-truthful many-to-one matchings (via differential privacy). In *Proceedings of the twenty-sixth annual ACM-SIAM Symposium on Discrete Algorithms*, pages 1890–1903. Society for Industrial and Applied Mathematics, 2015.

[9] J. Morgenstern and T. Roughgarden. Learning simple auctions. In *COLT 2016*, 2016.

[10] J. H. Morgenstern and T. Roughgarden. On the pseudo-dimension of nearly optimal auctions. In C. Cortes, N. Lawrence, D. Lee, M. Sugiyama, and R. Garnett., editors, *Proceedings of the 29th Annual Conference on Neural Information Processing Systems (NIPS)*, pages 136–144, 2015.

(d) Synergistic Activities

1. **Conference service:**
   - Co-organizer for "Tutorial on Algorithmic Fairness", Conference on Economics and Computation (EC), Ithaca, NY, June 2018.
   - Co-organizer for "Tutorial on Algorithmic Game Theory and Datascience", Conference on Economics and Computation (EC),Maastrict, the Netherlands, June 2016.
   - Contributor of tutorial "Sample Complexity of Single-Parameter Auctions", at the workshop on "Game theory meets computational learning theory." Dagstuhl, Germany, July 2017.
   - Co-organizer for "Fairness for Digital Infrastructure Workshop" at the University of Pennsylvania, Philadelphia, PA, January 2017.
2. **University service:** Chair of admissions committee during a transformation of the admissions process to measure the accuracy of our predictions (do we make decisions based upon factors that seem not to matter in terms of grad student outcomes?
3. **Mentoring:**
   - Coorganizing the first annual Women's breakfast at the Conference on Economics and Computation, 2018.
   - Graduate Sisters mentorship at Carnegie Mellon University, mentored undergraduate women in computing. 2010-2015.
4. **Teaching:** Developing a course "Foundations of Fairness in Machine Learning", focusing on the technical questions and implications which arise when machine learning techniques are used to guide impactful choices made about people.