

Name: **Robert Kleinberg**

Title: Prof Asst

Office: Upson Hall, Room 4138

Phone: (607)255-9200

Email: [rdk2@cornell.edu](mailto:rdk2@cornell.edu)

#### Professional Activities

- ACM-SIAM Symposium on Discrete Algorithms (SODA), 2009
- International Colloquium on Automata, Languages, and Programming (ICALP), 2009.
- Conference on Learning Theory (COLT), 2009.
- International Joint Conference on Artificial Intelligence (IJCAI), 2009.
- Workshop on Economics of Networks, Systems, and Computation (NetEcon), 2009.
- Workshop on Advertising Auctions (AdAuctions), 2009.
- Board of editors, "Theory of Computing"
- Co-organizer, Eastern Great Lakes Theory of Computation Workshop (EaGL), 2008.
- Cornell Computer Science curriculum committee, faculty recruiting committee.

#### Publications

- "Multiplicative updates outperform generic no-regret learning in congestion games" (STOC 2009), with G. Piliouras and E. Tardos
- "Online learning with global cost functions" (COLT 2009), with E. Even-Dar, S. Mannor, and Y. Mansour.
- "The K-armed dueling bandit problem" (COLT 2009), with Y. Yue, J. Broder, and T. Joachims.
- "Selling ad campaigns: online algorithms with cancellations" (EC 2009), with M. Babaioff and J. D. Hartline.
- "Load balancing without regret in the bulletin board model" (PODC 2009), with G. Piliouras and E. Tardos.
- "Online bipartite perfect matching with augmentations" (INFOCOM 2009), with K. Chaudhuri, C. Daskalakis, and H. Lin.
- "A multiplicative deformation of the Mobius function for the poset of partitions of a multiset", Contemporary Mathematics 479, 113-118. With P. Hersh.
- "Competitive collaborative learning", Journal of Computer and System Sciences 74, 1271-1288, special issue on learning theory, 2008. With B. Awerbuch.
- "Hat guessing games", SIAM Journal on Discrete Mathematics 22(2): 592-605, 2008.

#### Lectures

- "Multi-armed bandit problems in metric spaces"
  - Invited talk, Information Theory and Applications Workshop, San Diego, CA, February 2009.
  - CMU/Google Machine Learning Seminar Series, Pittsburgh, PA, November 2008.
  - Invited talk, New York Academy of Sciences Machine Learning Symposium, New York, NY, October 2008.

- "A learning-theoretic refinement of the price of anarchy"
  - MIT Theory of Computation Colloquium, February 2009.
  - Google Market Algorithms Workshop, January 2009.

#### New Honors

- AFOSR grant: "Distance Geometry of Complex Metric Spaces"