

Umar Ali Syed

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- EDUCATION
- ◇ **Princeton University**, Princeton, NJ. August 2004 - August 2009
Ph.D., Computer Science.
 - ◇ **Cornell University**, Ithaca, NY. January 2001 - December 2001
M.Eng., Computer Science.
 - ◇ **University of Florida**, Gainesville, FL. August 1996 - December 2000
B.Sc., Computer Engineering.
- POSITIONS HELD
- ◇ **Google** September 2011 - present
Research scientist.
 - ◇ **University of Pennsylvania** September 2009 - August 2011
Postdoctoral researcher, Department of Computer and Information Science.
 - ◇ **Microsoft Research** June 2008 - September 2008
Research internship, Search Labs.
 - ◇ **AT&T Labs Research** June 2007 - August 2007
Research internship, Speech Group.
 - ◇ **Gene Network Sciences** February 2003 - May 2004
Bioinformatician.
 - ◇ **Cornell University** January 2001 - February 2003
Research assistantship, Department of Computer Science.
- POST-GRADUATE HONORS
- Oral presentation, Neural Information Processing Systems (NIPS), 2007, 2010 — *Approximately 10% of accepted papers are invited to give an oral presentation at the conference.*
 - Google Student Award Winner, Machine Learning Symposium, New York Academy of Sciences, 2007, 2009 — *Awarded to five presenters at the symposium.*
 - Wallace Memorial Fellowship in Engineering, Princeton University, 2008 — *Awarded annually to two Princeton engineering graduate students.*
 - Best Student Paper Runner-up, Uncertainty in Artificial Intelligence (UAI), 2007
- UNDER-GRADUATE HONORS
- National Merit Scholarship, Florida Bright Futures Scholarship, Robert C. Byrd Scholarship, United Technologies Scholarship
- PUBLICATIONS
- Balkanski, E., Syed, U., Vassilvitskii, S. (2017)* Statistical cost sharing. *Advances in Neural Information Processing Systems 30 (NIPS 2017)*.
 - Nazerzadeh, H., Paes Leme, R., Rostamizadeh, A., Syed, U. (2016)* Where to sell: Simulating auctions from learning algorithms. *Proceedings of the Seventeenth ACM Conference on Economics and Computation (EC2016)*.
 - Heidari, H., Mahdian, M., Syed, U., Vassilvitskii, S., Yazdanbod, S. (2016)* Pricing a low-regret seller. *Proceedings of the Thirty-Third International Conference on Machine Learning (ICML 2016)*.

- Choromanski, K., Rostamizadeh, A., Syed, U. (2015)* An optimal online algorithm for retrieving heavily perturbed statistical databases in the low-dimensional querying model. *Proceedings of the Twenty-Fourth ACM International Conference on Information and Knowledge Management (CIKM 2015)*.
- DeSalvo, G., Mohri, M., Syed, U. (2015)* Learning with deep cascades. *Proceedings of the Twenty-Sixth International Conference on Algorithmic Learning Theory (ALT 2015)*.
- Cortes, C., Kuznetsov, V., Mohri, M., Syed, U. (2015)* Structural maxent models. *Proceedings of the Thirty-Second International Conference on Machine Learning (ICML 2015)*.
- Kuznetsov, V., Mohri, M., Syed, U. (2014)* Multi-class deep boosting. *Advances in Neural Information Processing Systems 27 (NIPS 2014)*.
- Amin, K., Rostamizadeh, A., Syed, U. (2014)* Repeated contextual auctions with strategic buyers. *Advances in Neural Information Processing Systems 27 (NIPS 2014)*.
- Cortes, C., Mohri, M., Syed, U. (2014)* Deep boosting. *Proceedings of the Thirty-First International Conference on Machine Learning (ICML 2014)*.
- Asuncion, A., de Haan, J., Mohri, M., Patel, K., Rostamizadeh, A., Syed, U., Wong, L. (2014)* Corporate learning at scale: Lessons from a large online course at Google. *Learning at Scale 2014*.
- Amin, K., Rostamizadeh, A., Syed, U. (2013)* Learning prices for repeated auctions with strategic buyers. *Advances in Neural Information Processing Systems 26 (NIPS 2013)*.
- Amin, K., Kearns, M., Syed, U. (2011)* Graphical models for bandit problems. *Uncertainty in Artificial Intelligence: Proceedings of the Twenty-Seventh Conference (UAI 2011)*.
- Amin, K., Kearns, M., Syed, U. (2011)* Bandits, query learning, and the haystack dimension. *Proceedings of the Twenty-Fourth Annual Conference on Learning Theory (COLT 2011)*.
- Fabrikant, A., Syed, U., Rexford, J. (2011) There's something about MRAI: Timing diversity can exponentially worsen BGP convergence. *Proceedings of the Thirtieth IEEE International Conference on Computer Communications (INFOCOM 2011)*.
- Syed, U., Taskar, B. (2010) Semi-supervised learning with adversarially missing label information. *Advances in Neural Information Processing Systems 23 (NIPS 2010)*.
- Syed, U., Schapire, R. E. (2010) A reduction from apprenticeship learning to classification. *Advances in Neural Information Processing Systems 23 (NIPS 2010)*.
- Brautbar, M., Kearns, M., Syed, U. (2010)* Private and third-party randomization in risk-sensitive equilibrium concepts. *Proceedings of the Twenty-Fourth Conference on Artificial Intelligence (AAAI 2010)*.
- Syed, U., Slivkins, A., Mishra, N. (2009) Adapting to the shifting intent of search queries. *Advances in Neural Information Processing Systems 22 (NIPS 2009)*.
- Syed, U., Bowling, M., Schapire, R. E. (2008) Apprenticeship learning using linear programming. *Proceedings of the Twenty-Fifth International Conference on Machine Learning (ICML 2008)*.
- Syed, U., Williams, J. D. (2008) Using automatically transcribed dialogs to learn user models in a spoken dialog system. *Proceedings of the Forty-Sixth Annual Meeting of the Association for Computational Linguistics (ACL 2008)*.
- Syed, U., Yona, G. (2008) Enzyme function prediction with interpretable models. *Methods in Molecular Biology: Computational Systems Biology*, edited by J. McDermott, K. Montgomery, R. Bumgarner and R. Samudrala. Humana Press. [Book chapter]
- Syed, U., Schapire, R. E. (2007) A game-theoretic approach to apprenticeship learning. *Advances in Neural Information Processing Systems 20 (NIPS 2007)*.

Syed, U., Schapire, R. E. (2007) Imitation learning with a value-based prior. *Uncertainty in Artificial Intelligence: Proceedings of the Twenty-Third Conference (UAI 2007)*.

Syed, U., Yona, G. (2003) Using a mixture of probabilistic decisions trees for direct prediction of protein function. *Proceedings of the Seventh Annual International Conference on Research in Computational Biology (RECOMB 2003)*.

*Denotes alphabetical author order.

TEACHING
ASSIS-
TANTSHIPS

Introduction to Computer Organization (Cornell, 2001), Introduction to Web Design (Cornell, 2001), Theoretical Computer Science (Princeton, 2005), Computer Science for Non-Majors (Princeton, 2006, 2007), Machine Learning (Princeton, 2008), Machine Learning (NYU, 2012).