

Curriculum Vitae

Maria-Florina Balcan

Personal Information

Last name	Balcan
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Research Interests

Machine Learning, Algorithmic Economics and Algorithmic Game Theory, Combinatorial Optimization, Theoretical Models for Signal Processing, Artificial Intelligence.

Appointments

July 2009 – Present	Assistant Professor, School of Computer Science, College of Computing, Georgia Institute of Technology, Atlanta, GA.
2008 – 2009	Postdoctoral Researcher, Microsoft Research New England, Cambridge, MA.
2000 – 2002	Instructor (Preparator), Computer Science Department, Faculty of Mathematics, University of Bucharest, Romania.

Education

Ph.D. 2002 – 2008, Carnegie Mellon University, Pittsburgh, PA. Computer Science Department.
Dissertation: *New Theoretical Frameworks for Machine Learning*.

M.S. 2000 – 2002, University of Bucharest, Romania, Faculty of Mathematics, Computer Science Department, M.S. Degree in Computer Science, GPA 10.00/10.00.

B.S. 1996 – 2000, University of Bucharest, Romania, Faculty of Mathematics, Computer Science Department, major in both Computer Science and Mathematics, GPA 10.00/10.00, “Summa Cum Laude” Diploma.

Honors and Awards

2011, Microsoft Faculty Fellowship.

2009, NSF Faculty Early Career (CAREER) Award.

2009, Recipient of the CMU School of Computer Science Distinguished Dissertation Award.

2008, IBM Goldstine Postdoctoral Fellowship in Mathematical Sciences, 2008 (received but declined).

2008, Mark Fulk Best Student Paper Award, 21st Annual Conference on Learning Theory (COLT 2008).

2007 – 2008, IBM Ph.D. Fellowship.

2000 – 2001, Romanian Government Merit Fellowship (during my MS studies).

1996 – 2000, Romanian Government Merit Fellowship (during my undergraduate studies).

October 2001, scholarship offered by World Bank, at Laboratoire d'Analyse et d'Architecture des Systèmes, Dependable Computing and Fault Tolerance (TSF) Team, CNRS, Toulouse, France.

October 1999 – January 2000, European Union Erasmus/Socrates scholarship to study at the University of Patras, Greece.

Selected Publications

Books and Chapters

- (B1) **An Augmented PAC Model for Semi-Supervised Learning**, Maria-Florina Balcan and Avrim Blum. Book Chapter in "Semi-Supervised Learning", Chapelle, O., Zien, A., and Schölkopf, B. (Eds.), MIT Press, 2006.
- (B2) **Search and Knowledge Representation in Artificial Intelligence. Theory and Applications**, Florentina Hristea and Maria-Florina Balcan. University of Bucharest Publishing House, 2005 (in Romanian).

Journal Papers

- (J1) **Efficient Clustering with Limited Distance Information**, Konstantin Voevodski, Maria-Florina Balcan, Heiko Röglin, Shang-Hua Teng, and Yu Xia. *Journal of Machine Learning Research*, 2011. (Accepted)
- (J2) **The True Sample Complexity of Active Learning**, Maria-Florina Balcan, Steve Hanneke, and Jennifer Wortman. *Machine Learning Journal*, 80(2 – 3), 111 – 139, 2010. Special issue for COLT 2008. **(Invited)**
- (J3) **A Discriminative Framework for Semi-Supervised Learning**, Maria-Florina Balcan and Avrim Blum. *Journal of the ACM*, Volume 57, Issue 3, 2010.
- (J4) **Agnostic Active Learning**, Maria-Florina Balcan, Alina Beygelzimer, and John Langford. *Journal of Computer and System Sciences*, 75 (1): 78 – 89, 2009. Special Issue on Learning Theory. **(Invited)**
- (J5) **Reducing Mechanism Design to Algorithm Design via Machine Learning**, Maria-Florina Balcan, Avrim Blum, Jason D. Hartline, and Yishay Mansour. *Journal of Computer and System Sciences*, 74(8): 1245 – 1270, 2008. Special Issue on Learning Theory. **(Invited)**
- (J6) **On a Theory of Learning with Similarity Functions**, Maria-Florina Balcan, Avrim Blum, and Nathan Srebro. *Machine Learning Journal*, 72(1 – 2): 89 – 112, 2008. Special issue of *Machine Learning Journal* for COLT 2007. **(Invited)**
- (J7) **Robust Reductions from Ranking to Classification**, Maria-Florina Balcan, Nikhil Bansal, Alina Beygelzimer Don Coppersmith, John Langford, and Gregory B. Sorkin. *Machine Learning Journal*, 72 (1 – 2) : 139 – 153, 2008. Special issue of *Machine Learning Journal* for COLT 2007. **(Invited)**
- (J8) **Approximation Algorithms and Online Mechanisms for Item Pricing**, Maria-Florina Balcan and Avrim Blum. *Theory of Computing*, 3/9 : 179 – 195, 2007.
- (J9) **Kernels as Features: On Kernels, Margins, and Low-dimensional Mappings**, Maria-Florina Balcan, Avrim Blum, and Santosh Vempala. *Machine Learning Journal*, 65(1):79 – 94, 2006.
- (J10) **Approaches to Handwritten/Machine Printed Discrimination Problem**, Maria-Florina Popa and Doru-Cristian Balcan. University of Bucharest Annals, Computer Science, 2000.

Conference Papers

- (C1) **Learning Submodular Functions**, Maria-Florina Balcan and Nicholas J. Harvey. Proceedings of the 43rd ACM Symposium on Theory of Computing (STOC) 2011.
- (C2) **Game-theoretic Couplings and Applications**, Maria-Florina Balcan, Florin Constantin, Georgios Pilouras, and Jeff Shamma. Proceedings of the 50th IEEE Conference on Decision and Control (CDC) 2011.
- (C3) **The Snowball Effect of Uncertainty in Potential Games**, Maria-Florina Balcan, Florin Constantin, and Steven Ehrlich. Proceedings of the 7th Workshop on Internet and Network Economics (WINE) 2011.
- (C4) **Min-Sum Clustering of Protein Sequences with Limited Distance Information**, Konstantin Voevodski, Maria-Florina Balcan, Heiko Röglin, Shang-Hua Teng, and Yu Xia. Proceedings of the 1st International Workshop on Similarity-Based Pattern Analysis and Recognition (SIMBAD) 2011.
- (C5) **Combining Self Training and Active Learning for Video Segmentation**, Alireza Fathi, Maria-Florina Balcan, Xiaofeng Ren, and James M Rehg. Proceedings of the 22nd British Machine Vision Conference (BMVC) 2011.
- (C6) **Robust Hierarchical Clustering**, Maria-Florina Balcan and Pramod Gupta. Proceedings of the 23rd Annual Conference on Learning Theory (COLT) 2010.
- (C7) **Efficient Clustering with Limited Distance Information**, Konstantin Voevodski, Maria-Florina Balcan, Heiko Röglin, Shang-Hua Teng, and Yu Xia. Proceedings of the 26th Conference on Uncertainty in Artificial Intelligence (UAI) 2010.
- (C8) **Sequential Item Pricing for Unlimited Supply**, Maria-Florina Balcan and Florin Constantin. Proceedings of the 6th Workshop on Internet and Network Economics (WINE) 2010.
- (C9) **On the Equilibria of Asynchronous Games**, Aaron Roth, Maria-Florina Balcan, Adam Kalai, and Yishay Mansour. Proceedings of the ACM-SIAM Symposium on Discrete Algorithms (SODA) 2010.
- (C10) **On Nash Equilibria of Approximation-Stable Games**. Pranjal Awasthi, Maria Florina Balcan, Avrim Blum, Or Sheffet, and Santosh Vempala. Proceedings of the 3rd International Symposium on Algorithmic Game Theory (SAGT) 2010.
- (C11) **Circumventing the Price of Anarchy: Leading Dynamics to Good Behavior**, Maria-Florina Balcan, Avrim Blum, and Yishay Mansour. Proceedings of the Innovations in Computer Science (ICS) 2010.
- (C12) **Finding Low Error Clusterings**, Maria-Florina Balcan and Mark Braverman. Proceedings of the 22nd Annual Conference on Learning Theory (COLT) 2009.
- (C13) **Agnostic Clustering**, Maria-Florina Balcan, Heiko Röglin and Shang-Hua Teng. Proceedings of the 20th International Conference on Algorithmic Learning Theory (ALT) 2009.
- (C14) **The Price of Uncertainty**, Maria-Florina Balcan, Avrim Blum, and Yishay Mansour. Proceedings of the Tenth ACM Conference on Electronic Commerce (EC) 2009.
- (C15) **Approximate Clustering without the Approximation**, Maria-Florina Balcan, Avrim Blum, and Anupam Gupta. Proceedings of the ACM-SIAM Symposium on Discrete Algorithms (SODA) 2009.
- (C16) **Improved Equilibria via Public Service Advertising**, Maria-Florina Balcan, Avrim Blum, and Yishay Mansour. Proceedings of the ACM-SIAM Symposium on Discrete Algorithms (SODA) 2009.

- (C17) **The True Sample Complexity of Active Learning**, Maria-Florina Balcan, Steve Hanneke, and Jennifer Wortman. Proceedings of the 21st Annual Conference on Learning Theory (COLT) 2008.
Received **Mark Fulk Best Student Paper Award**.
- (C18) **A Discriminative Framework for Clustering via Similarity Functions**, Maria-Florina Balcan, Avrim Blum, and Santosh Vempala. Proceedings of the 40th ACM Symposium on Theory of Computing (STOC) 2008.
- (C19) **Improved Guarantees for Learning via Similarity Functions**, Maria-Florina Balcan, Avrim Blum, and Nathan Srebro. Proceedings of the 21st Annual Conference on Learning Theory (COLT) 2008.
- (C20) **Item Pricing for Revenue Maximization**, Maria-Florina Balcan, Avrim Blum, and Yishay Mansour. Proceedings of the Ninth ACM Conference on Electronic Commerce (EC) 2008.
- (C21) **Clustering with Interactive Feedback**, Maria-Florina Balcan and Avrim Blum. Proceedings of the 19th International Conference on Algorithmic Learning Theory (ALT) 2008.
- (C22) **Margin Based Active Learning**, Maria-Florina Balcan, Andrei Broder, and Tong Zhang. Proceedings of the 20th Annual Conference on Learning Theory (COLT) 2007.
- (C23) **Robust Reductions from Ranking to Classification**, Maria-Florina Balcan, Nikhil Bansal, Alina Beygelzimer, Don Coppersmith, John Langford, and Gregory B. Sorkin. Proceedings of the 20th Annual Conference on Learning Theory (COLT) 2007.
- (C24) **A Theory of Loss-leaders: Making Money by Pricing below Cost**, Maria-Florina Balcan, Avrim Blum, Hubert Chan, and MohammadTaghi Hajiaghayi. Proceedings of the 3rd International Workshop on Internet and Network Economics (WINE) 2007.
- (C25) **Agnostic Active Learning**, Maria-Florina Balcan, Alina Beygelzimer, and John Langford. Proceedings of the 23rd International Conference on Machine Learning (ICML) 2006.
- (C26) **Approximation Algorithms and Online Mechanisms for Item Pricing**, Maria-Florina Balcan and Avrim Blum. Proceedings of the Seventh ACM Conference on Electronic Commerce (EC) 2006.
- (C27) **On a Theory of Learning with Similarity Functions**, Maria-Florina Balcan and Avrim Blum. Proceedings of the 23rd International Conference on Machine Learning (ICML), 2006.
- (C28) **Mechanism Design via Machine Learning**, Maria-Florina Balcan, Avrim Blum, Jason D. Hartline, and Yishay Mansour. Proceedings of the 46th Annual Symposium on Foundations of Computer Science (FOCS) 2005.
- (C29) **A PAC-style Model for Learning from Labeled and Unlabeled Data**, Maria-Florina Balcan and Avrim Blum. Proceedings of the 18th Annual Conference on Learning Theory (COLT) 2005.
- (C30) **Kernels as Features: On Kernels, Margins, and Low-dimensional Mappings**, Maria-Florina Balcan, Avrim Blum, and Santosh Vempala. Proceedings of the 15th International Conference on Algorithmic Learning Theory (ALT) 2004.
- (C31) **Co-Training and Expansion: Towards Bridging Theory and Practice**, Maria-Florina Balcan, Avrim Blum, and Ke Yang. Proceedings of the Eighteenth Annual Conference on Neural Information Processing Systems (NIPS) 2004.
- (C32) **Handwritten Text Localization in Skewed Documents**, Ergina Kavallieratou, Doru-Cristian Balcan, Maria-Florina Popa, and Nikos Fakotakis. IEEE International Conference on Image Processing (ICIP) 2001.

Open Problems

- (OP1) **Better Guarantees for Sparsest Cut Clustering**, Maria-Florina Balcan. Proceedings of the 22nd Annual Conference on Learning Theory (COLT), 2009.
- (OP2) **Open Problems in Efficient Semi-Supervised PAC Learning**, Avrim Blum and Maria-Florina Balcan. Proceedings of 20th Annual Conference on Learning Theory (COLT), 2007.

Short Surveys

- (S1) **Leading Dynamics to Good Behavior**, Maria-Florina Balcan. SIGecom Exchanges, Volume 10, 2011. (Invited)
- (S2) **Item Pricing for Revenue Maximization**, Maria-Florina Balcan, Avrim Blum, and Yishay Mansour. SIGecom Exchanges, Volume 7.3, 2008. (Invited)
- (S3) **Mechanism Design, Machine Learning, and Pricing Problems**, Maria-Florina Balcan and Avrim Blum. SIGecom Exchanges, Volume 7.1, special issue on Combinatorial Auctions, 2007. (Invited)

Manuscripts

- (M1) **Clustering under Perturbation Resilience**, Maria-Florina Balcan and Yingyu Liang. 2011.
- (M2) **Learning Valuation Functions**, Maria-Florina Balcan, Florin Constantin, Satoru Iwata, and Lei Wang. Arxiv 2011.
- (M3) **Approximate Nash Equilibria under Stability Conditions**, Maria-Florina Balcan and Mark Braverman. Arxiv 2010.
- (M4) **Random Sampling Auctions for Limited Supply**, Maria-Florina Balcan, Nikhil Devanur, Jason D. Hartline, and Kunal Talwar. Technical Report, CMU-CS-07-154, 2007.

Selected Workshop Papers

- (W1) **Clustering Protein Sequences Given the Approximation Stability of the Min-Sum Objective Function**, Konstantin Voevodski, Maria-Florina Balcan, Heiko Röglin, Shang-Hua Teng, and Yu Xia. The Snowbird Learning Workshop, 2011.
- (W2) **Weighted Neighborhood Linkage**, Maria-Florina Balcan and Pramod Gupta. NIPS Workshop on Robust Statistical Learning, 2010.
- (W3) **Learning with Multiple Similarity Functions**, Maria-Florina Balcan, Avrim Blum, and Nathan Srebro. NIPS Workshop on Kernel Learning: Automatic Selection of Optimal Kernels, 2008.
- (W4) **Similarity-Based Theoretical Foundation for Sparse Parzen Window Prediction**, Maria-Florina Balcan, Avrim Blum, and Nathan Srebro. ICML/UAI/COLT Workshop on Sparse Optimization and Variable Selection, 2008.
- (W5) **Asymptotic Active Learning**, Maria-Florina Balcan, Eyal-Even Dar, Steve Hanneke, Michael Kearns, Yishay Mansour, and Jennifer Wortman. NIPS Workshop on the Principles of Learning Problem Design, 2007.
- (W6) **On a Theory of Kernels as Similarity Functions**, Maria-Florina Balcan and Avrim Blum. Mathematical Foundations of Learning Theory-II, 2006.
- (W7) **Sponsored Search Auctions Design via Machine Learning**, Maria-Florina Balcan, Avrim Blum, Jason D. Hartline, and Yishay Mansour, ACM-EC Workshop on Sponsored Search Auctions, 2005.

- (W8) **Person Identification in Webcam Images: An Application of Semi-Supervised Learning**, Maria-Florina Balcan, Avrim Blum, Pakyan Choi, John Lafferty, Brian Pantano, Mugizi Robert Rwebangira and Xiaojin Zhu. ICML Workshop on Learning with Partially Classified Training Data, 2005.
- (W9) **A Sample-Complexity Analysis of Learning from Labeled and Unlabeled Data**, Maria-Florina Balcan and Avrim Blum. NIPS Workshop on (Ab)Use of Bounds, 2004.
- (W10) **A PAC-style Model for Learning from Labeled and Unlabeled Data**, Maria-Florina Balcan and Avrim Blum. Mathematical Foundations of Learning Theory-I, 2004.

Other Technical Writings

- Issues of Search and Knowledge Representation in Artificial Intelligence**, Florentina Hristea and Maria-Florina Balcan. Textbook, University of Bucharest Publishing House, 2004 (in Romanian).
- Data Defining Language**, Doru-Cristian Balcan, Maria-Florina Balcan, and Dorin Paun. chapter in “Procedural and Non-procedural Query Resolution in Oracle8”, University of Bucharest Publishing House, 2002 (in Romanian).
- Dependability Modeling and Analysis using Generalized Stochastic Petri Nets**, Maria-Florina Popa. MS Thesis, University of Bucharest, 2002 (in Romanian).
- Algorithms and Mathematical Models for Image Processing**, Maria-Florina Popa. BS Thesis, University of Bucharest, 2000 (in Romanian).
- New Methods in Handwritten/Machine Printed Discrimination**, Maria-Florina Popa and Doru-Cristian Balcan. The Eighth Conference of Applied and Industrial Mathematics (CAIM), 2000.

Research Grants and Gifts

- Google:** Google Research Award, 2011.
- Microsoft:** Microsoft Faculty Fellowship, 2011.
- NSF:** *Algorithms and Mechanisms for Pricing, Influencing Dynamics, and Economic Optimization* (September 2011 – September 2013). Principal Investigator. Co-PI: Avrim Blum (Carnegie Mellon).
- NSF, Career:** *Machine Learning Theory with Connections to Algorithmic Game Theory and Combinatorial Optimization* (December 2009 – May 2014).
- AFOSR/MURI:** *Distributed learning and information dynamics in networked autonomous systems* (June 2009 – May 2014), co-PI with Profs. E. Abed (UMaryland), J. Baras (UMaryland), M. Dahleh (MIT), L. Kaelbling (MIT), N. Martins (UMaryland), A. Ozdaglar (MIT), J. Shamma (Georgia Tech), and H.P. Young (Johns Hopkins).
- ONR:** *Game theoretic learning for distributed autonomous collaboration* (June 2009 – May 2014), co-PI with Profs. M. Dahleh (MIT), E. Frazzoli (MIT), J. Shamma (Georgia Tech), and H.P. Young (Johns Hopkins).

Professional Service

Synergistic Activities

- Co-Organizer, ARC Workshop on “Modern aspects of submodularity”, 2012.

Session organizer: “New Trends in Auction Design”, The 20th International Symposium of Mathematical Programming (ISMP), 2009.

Session organizer: “Recent Advances in Machine Learning”, The INFORMS Annual Meeting, 2009.

Co-Organizer, NIPS 2008 Workshop on “New Challenges in Theoretical Machine Learning: Learning with Data-dependent Concept Spaces”.

Memberships and Activities in Professional Societies

Member of the International Machine Learning Society Board, 2011 - present.

Editorial work

Member of the editorial board for Machine Learning Journal.

Member of the editorial board for Journal of Computer and System Sciences.

Editor for SIAM Journal on Computing (SICOMP) Special Issue for FOCS 2009.

Top Level Program Committee Member

Annual Conference on Learning Theory (**COLT**): 2009, 2011, 2012.

Area Chair for Neural Information Processing Systems (**NIPS**): 2010, 2011.

Innovations in Computer Science (**ICS**) 2011.

The 21st International Conference on Algorithmic Learning Theory (**ALT**) 2010.

The 50th Annual Symposium on Foundations of Computer Science (**FOCS**) 2009.

Program Committee Member

The 12th ACM Conference on Electronic Commerce (**EC**) 2011.

International Workshop on Similarity-Based Pattern Analysis and Recognition (**SIMBAD**) 2011.

The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (**ECML PKDD**) 2010.

The 19 International World Wide Web Conference (**WWW**) 2010.

International Conference on Machine Learning (**ICML**): 2007, 2008.

Journal Refereeing

Journal of Machine Learning Research, Machine Learning Journal, SIAM Journal on Discrete Mathematics, Transactions on Algorithms, IEEE Transactions on Information Theory, Journal of Artificial Intelligence Research, Artificial Intelligence Journal, Neural Computation, Theoretical Computer Science.

Conference Refereeing

IEEE Foundations of Computer Science (FOCS), ACM Symposium on Theory of Computation (STOC), ACM-SIAM Symposium on Discrete Algorithms (SODA), Annual Conference on Learning Theory (COLT), Neural Information Processing Systems (NIPS), Symposium on Theoretical Aspects of Computer Science (STACS), Annual European Symposium on Algorithms (ESA), International Workshop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX), Symposium on Parallelism in Algorithms and Architectures (SPAA), ACM Conference on Electronic Commerce (EC), International Workshop on Internet and Network Economics (WINE), Workshop on Approximation and Online Algorithms (WAOA), Integer Programming and Combinatorial Optimization (IPCO), Workshop on Algorithms and Models for the Web Graph (WAW).

Grant Review Panelist

National Science Foundation (AF), 2010.

Reviewer for the U.S.-Israel Binational Science Foundation. 2011.

Selected Presentations

Invited Summer School Lectures

Learning and Game Theory

Summer School on Algorithmic Game Theory, Fudan University, Shanghai. July 2010.

Finding Low Error Clusterings

Machine Learning Summer School, University of Chicago. June 2009.

Selected Invited Talks

Beyond Worst-Case Analysis in Machine Learning: Learning with Data Dependent Concept Spaces

Workshop on Beyond Worst-Case Analysis. September 2011.

Learning Valuation Functions

Microsoft Research New England. August 2011.

Innovations in Algorithmic Game Theory, May 2011.

LearningTheory@FoCM'11, July 2011.

Robust Hierarchical Clustering

NIPS 2010 Workshop on Robust Statistical Learning. December 2010.

Learning Submodular Functions

Princeton University Theory Seminar. April 2011.

The annual event of the ARC Center Georgia Institute of Technology. April 2011.

SIAM Conference on Discrete Mathematics. June 2010.

The 5th Bertinoro Workshop on Random(ized) Graphs and Algorithms. May 2010.

NIPS 2009 Workshop on Discrete Optimization in Machine Learning. December 2009.

Approximate Clustering without the Approximation

Microsoft Research Redmond. July 2010.

IBM Research Yorktown. December 2009.

Combinatorics Seminar, Georgia Institute of Technology. October 2009.

INFORMS. October 2009.

Barriers in Computational Complexity Workshop, Princeton University. August 2009.

Learning with Similarity Functions

ICML Workshop on Learning in Non-(geo)metric Spaces. June 2010.

Learning Theory 2.0. New Theoretical Frameworks for Modern Learning Paradigms

Carnegie Mellon University. March 2010. **Distinguished Lecture.**

Georgia Institute of Technology, College of Computing Colloquium. October 2009.

The True Sample Complexity of Active Learning

NIPS 2009 Workshop on Adaptive Sensing, Active Learning, and Experimental Design. December 2009.

The Dynamics of Equilibria

Toyota Technological Institute at Chicago (TTI-C). August 2009.

Harvard University, Economics and Computer Science Seminar. May 2009.

INFORMS. October 2009.

A Computational Theory of Clustering

Information Theory and Applications Workshop. February 2009.

A Theory of Learning and Clustering via Similarity Functions

Google Research New York. April 2008.

Ecole Polytechnique Fédérale de Lausanne, School Seminar. April 2008.

Georgia Institute of Technology. April 2008.

University of Washington, CSE Colloquium. April 2008.

Massachusetts Institute of Technology, CS Special Seminar Series. March 2008.

University of Michigan, Ann Arbor, CSE Colloquium. March 2008.

Microsoft Research Silicon Valley. March 2008.

University of Stanford, Computer Science Seminar. March 2008.

University of Southern California, CS Colloquium Series. March 2008.

University of Pennsylvania, Wharton School Statistics Department Seminar. February 2008.

Georgia Institute of Technology, ARC Colloquium. February 2008.

Microsoft Research Redmond. February 2008.

Cornell Theory Seminar. November 2007.

China Theory Week, Tsinghua University. September 2007.

University of Pennsylvania, Machine Learning Lunch. September 2007.

Mechanism Design, Machine Learning, and Pricing Problems

University of Southern California, CS Colloquium Series. December 2007.

Duke University Computer Science Colloquia. December 2007.

Brown CS Seminar. November 2007.

INFORMS. November 2006.

University of California, San Diego, Theory Seminar. October 2006.

Yahoo! Research, Sunnyvale, CA. October 2006.

Second Bertinoro Workshop on Algorithmic Game Theory (AGATE 2006). July 2006.

CMU Workshop on Electronic Market Places. May 2006.

Item Pricing for Revenue Maximization in Combinatorial Auctions

Dagstuhl Workshop on Computational Social Systems and the Internet. July 2007.

An Augmented PAC Model for Semi-Supervised Learning

Toyota Technological Institute at Chicago (TTI-C). August 2005.

IBM Research T.J. Watson. June 2005.

Microsoft Research Silicon Valley. May 2005.

Kernels as Features: On Kernels, Margins, and Low-dimensional Mappings

IBM Research T.J. Watson. July 2005.