

# Afshin Rostamizadeh

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CONTACT INFORMATION	Department of Computer Science University of California, Berkeley Sutardja Dai Hall Berkeley, CA 94720	<i>E-mail:</i> arostami@eecs.berkeley.edu <i>WWW:</i> eecs.berkeley.edu/~arostami
RESEARCH INTERESTS	Machine Learning Theory, Generalization Bounds, Kernel Methods, Automatic Kernel Selection, Learning from Biased and Non-i.i.d. Samples	
EDUCATION	<b>New York University</b> , New York, New York USA  PhD, Computer Science, May 2010 <ul style="list-style-type: none"><li>• Advisor: Professor Mehryar Mohri</li><li>• Area of Study: Machine Learning</li><li>• GPA: 4.0</li></ul> M.S., Computer Science, May 2008  <b>University of California at Berkeley</b> , Berkeley, California USA  B.S., Electrical Engineering and Computer Science, May 2006 <ul style="list-style-type: none"><li>• Computer Science emphasis</li></ul>	
AWARDS	New York University <ul style="list-style-type: none"><li>• Courant Institute Harold Grad Prize, 2009, prize awarded each year to a math or computer science student with outstanding performance and promise. student.</li><li>• MacCracken Fellowship, 2006</li></ul> New York Academy of Sciences <ul style="list-style-type: none"><li>• Best Student Submission, 2008 Machine Learning Symposium</li><li>• Runner-up Student Submission, 2007 Machine Learning Symposium</li></ul>	
ACADEMIC EXPERIENCE	<b>University of California at Berkeley</b> , Berkeley, CA USA  <i>Postdoctoral Scholar</i> <span style="float: right;"><b>August 2010 to -</b></span> <ul style="list-style-type: none"><li>• Design and analysis of algorithms for learning with missing features.</li></ul> <b>New York University</b> , New York, NY USA  <i>Teaching Assistant</i> <span style="float: right;"><b>September 2006 to May 2007</b></span> <ul style="list-style-type: none"><li>• Data Structures and Algorithms: Held recitation sections and office hours.</li><li>• Foundations of Machine Learning: Graded assignments and organized final project poster presentation.</li></ul> <b>University of California at Berkeley</b> , Berkeley, CA USA  <i>Undergraduate Researcher</i> <span style="float: right;"><b>August 2005 to June 2006</b></span> <ul style="list-style-type: none"><li>• Implementation of simulations used to find optimal (least-congested) routings in a network over a disc.</li></ul>	

PROFESSIONAL  
EXPERIENCE

**Google Research**, New York, New York USA

*Summer Intern*

**May 2009 to August 2009**

- Worked in the research group (hosted by Cyril Allauzen), continuing work on automatic kernel selection problems. The work culminated in the creation of an open source C++ library with several automatic kernel selection algorithm implementations, which can be found at [www.openkernel.org](http://www.openkernel.org).

*Summer Intern*

**May 2008 to August 2008**

- Worked in the research group (hosted by Corinna Cortes), creating new methods to automatically create sequence kernels from data. Sequence kernels are immediately useful for any kernel based learning task which deals with strings (e.g. documents, web pages, gene sequences).

*Summer Intern*

**May 2007 to August 2007**

- Worked in the research group (hosted by Michael Riley), creating, analyzing and implementing improvements in LocalSearch ranking, mainly dealing with the problem of learning from biased samples.

**Lawrence Berkeley National Laboratory**, Berkeley, California USA

*Undergraduate Research Intern*

**September 2004 to August 2005**

- Worked with the Heavy-Ion Fusion group to implement particle simulation code used to augment simulation results. Technical Report:  
<http://www.osti.gov/bridge/servlets/purl/877634-wtorH2/877634.PDF>

TECHNICAL SKILLS

- Comfortable using Linux, Mac and Windows platforms.
- Programming experience in C/C++, Java, Python and Matlab.
- Open source software development experience ([www.openkernel.org](http://www.openkernel.org)).

SERVICE

- Helped plan, organize and review submissions for NIPS 2009 workshop entitled *Kernel Learning: Automatic Selection of Optimal Kernels*.  
Website: [http://www.cs.nyu.edu/learning\\_kernels/](http://www.cs.nyu.edu/learning_kernels/)
- Served as a reviewer for several machine learning conferences and journals: Neural Information Processing Systems (NIPS), International Conference on Machine Learning (ICML), Conference on Learning Theory (COLT), Journal of Machine Learning Research (JMLR), Machine Learning.

PUBLICATIONS

- *Matrix Coherence and the Nystrom Method*, with Ameet Talwalkar, UAI 2010
- *Generalization Bounds for Learning Kernels*, with Corinna Cortes and Mehryar Mohri, ICML 2010
- *Two-Stage Learning Kernel Algorithms*, with Corinna Cortes and Mehryar Mohri, NIPS 2010
- *Stability Bounds for Stationary  $\varphi$ -mixing and  $\beta$ -mixing Processes*, with Mehryar Mohri, JMLR 2010, Volume 11
- *Learning Non-Linear Combinations of Kernels*, with Corinna Cortes and Mehryar Mohri, NIPS 2009
- *Domain Adaptation: Learning Bounds and Algorithms*, with Yishay Mansour and Mehryar Mohri, COLT 2009

- *L2 Regularization for Learning Kernels*, with Corinna Cortes and Mehryar Mohri, UAI 2009
- *Multiple Source Adaptation and the Renyi Divergence*, with Yishay Mansour and Mehryar Mohri, UAI 2009
- *Rademacher Complexity Bounds for Non-i.i.d. Processes*, with Mehryar Mohri, NIPS 2008
- *Learning Sequence Kernels*, with Corinna Cortes and Mehryar Mohri, MLSP 2008 (invited lecture)
- *Domain Adaptation with Multiple Sources*, with Yishay Mansour and Mehryar Mohri, NIPS 2008
- *Sample Selection Bias Correction Theory*, with Corinna Cortes, Mehryar Mohri and Michael Riley, ALT 2008
- *Stability Bounds for Non-i.i.d. Processes*, with Mehryar Mohri, NIPS 2007
- *Balancing Traffic Load in Wireless Networks with Curveball Routing*, with Lucian Popa, Richard M. Karp, Christos Papadimitriou and Ion Stoica, ACM MobiHoc 2007

REFERENCES

Available upon request.