

AMEET TALWALKAR

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EDUCATION

- **New York University**, New York, NY
PhD Candidate (Masters in September 2008), Computer Science, Sept 2006 – present
Classes: Honors Algorithms, Foundations of Machine Learning, Advanced Machine Learning, Numerical Methods, Bioinformatics, Speech Recognition, Convex and Nonsmooth Optimization
- **Yale University**, New Haven, CT
BS, Computer Science, 2002, Summa Cum Laude, Phi Beta Kappa
Relevant Classes: Data Structures, Systems Programming, Digital Systems, Intro to Databases, Design and Analysis of Algorithms, Computer Systems, Cryptography and Computer Security, Neural Networks, Computer Networking, Linear Algebra, Multivariable Calculus, Mathematical Tools for Computer Science
- **Half Hollow Hills High School East**, Dix Hills, NY
Diploma, June 1998, GPA 4.0

EXPERIENCE

- **Google, Inc.**, New York, NY
Engineering Intern, May 2007 – Aug 2007, May 2008 - Aug 2008, May 2009 - Aug 2009
Worked in research group for two summers, developing methodology for large-scale approximations for various Machine Learning tasks; portions of work presented at 3 conferences. Spent summer of 2009 working with the search quality group on large-scale classification problems
- **Greengard Laboratory – The Rockefeller University**, New York, NY
Research Assistant, July 2004 – May 2006
In line with lab's goal to find therapeutic targets for neurodegenerative diseases including Parkinson's and Alzheimer's, focused on interactions of Casein Kinase 1, a kinase regulating the DARPP-32 pathway
- **Wireless Generation**, New York, NY
Software Engineer, April 2003 – November 2004, May 2006 – August 2006
Developed/maintained small educational-software company's synchronization-server, the core technology supporting all company products; devised tools to handle synchronization-related customer issues and facilitated the escalation of other support issues from the support team to the engineering team
- **Oliver, Wyman, & Company**, New York, NY and Istanbul, Turkey
Consultant, Summer 2001, September 2002 – April 2003
Worked on-site for a large bank in Istanbul to enhance the bank's Risk Management Division; educated senior management on the concept of Value-at-Risk, a mathematical tool used to quantify the potential volatility of a bank's investment portfolio; designed and implemented software to calculate banks' VaR
- **Yale University**, New Haven, CT
Researcher/Programmer, Summer 2000
Helped design a reactive animation library in Haskell, and used it to implement control systems for robots competing in Robocup – a soccer competition involving autonomous robots with visual feedback systems
- **Brandeis University**, Waltham, MA
Science Research Intern, Summer 1997
Conducted research in cognitive science; designed experiment, tested subjects, interpreted results; found a mathematical model representing the integrative processes of the human nervous system; research presented at a conference of the Association for Research in Vision and Ophthalmology

AWARDS and ACHIEVEMENTS

- **Henning Biermann Award**, New York University CS Department, 2008 (awarded for exceptional contributions to education or service to the department)
- **Graduate Student Representative**, Computer Science Department, NYU, 2007 – 2009
- **Henry Mitchell MacCracken Fellowship**, New York University, 2006 – present
- **Yale Computer Science Undergraduate Prize**, 2002 (awarded to graduating senior majoring in Computer Science who is judged by the faculty to rank highest in scholarship)
- **Yale Science and Engineering Association Junior High Scholarship Award**, 2000 (awarded to junior majoring in the sciences who has demonstrated the highest scholarship)
- **Member of New York Ultimate Frisbee Team**, a club team that competes internationally at the highest level of the sport (2003 – 2004)

- **Captain/Member of Yale Men's Ultimate Frisbee Team**; Led a group of over 40 players who competed in collegiate tournaments nationwide; designed and managed practices and planned season (1998 – 2002)
- **Teaching assistant** for 2 computer science classes; grade problem sets, hold office hours (2000 – 2002)
- **Captain** and #1 singles player of the two-time county champion **tennis team** (1997 – 1998)
- **Westinghouse Science Talent Search Scholarship**, 1998 (awarded to 40 outstanding young scientists)

PUBLICATIONS

- S. Kumar, M. Mohri and A. Talwalkar. **On Sampling-based Approximate Spectral Decomposition**. In International Conference on Machine Learning (ICML). 2009.
- S. Kumar, M. Mohri and A. Talwalkar. **Sampling Techniques for the Nyström Method**. In International Conference on Artificial Intelligence and Statistics (AISTATS). 2009.
- C. Allauzen, M. Mohri and A. Talwalkar. **Sequence Kernels for Predicting Protein Essentiality**. In International Conference on Machine Learning (ICML). 2008.
- A. Talwalkar, S. Kumar and H. Rowley. **Large-Scale Manifold Learning**. IEEE International Conference on Vision and Pattern Recognition (CVPR oral). 2008.
- L. Boucher, R. Sekuler, A. Talwalkar and A. B. Sekuler. **Motion Perception is Influenced by Sound: Two- and Three-Dimensional Motion**. Association for Research in Vision and Ophthalmology. 1998.

PROFESSIONAL SERVICE

- Serve as a reviewer for several machine learning conferences and journals including: Neural Information Processing Systems (NIPS), International Conference on Machine Learning (ICML), Conference on Learning Theory (COLT), International Workshop on Mining and Learning with Graphs (MLG), Neural Networks