

Nishant A. Mehta

CONTACT INFORMATION	404.384.2963 Georgia Institute of Technology, 85 5th St NW, Atlanta, GA 30308	http://www.cc.gatech.edu/~niche niche@cc.gatech.edu
RESEARCH INTERESTS	Machine learning with structured data, Kernel methods, Brain-computer interfaces.	
EDUCATION	Georgia Institute of Technology , Atlanta, GA USA Ph.D. student, Computer Science, 2006 – Present <ul style="list-style-type: none">• Current projects: Activity recognition in the brain. Manifold learning for classification. B.S., Computer Science, Spring 2005 <ul style="list-style-type: none">• <i>With Highest Honor</i>• Faculty Honors 4 of 9 semesters, Dean's List 5 of 9 semesters• National Society of Collegiate Scholars Inductee• Honored by Golden Key International Honour Society	
HONORS AND AWARDS	Honorable Mention, National Science Foundation Graduate Research Fellowship, 2006.	
ACADEMIC EXPERIENCE	Georgia Institute of Technology , College of Computing, Atlanta, GA USA <i>Teaching Assistant</i> Fall 2008 Designed and delivered several lectures. Shared responsibility for problem sets, project, exams, and grading. <ul style="list-style-type: none">• Graduate Computational Data Analysis, Alexander Gray <i>Teaching Assistant</i> Fall 2004 Shared responsibility for project design and grading. <ul style="list-style-type: none">• Undergraduate Objects and Design, Robert Waters <i>Teaching Assistant</i> Spring 2003 Taught weekly 2 hour recitation to 40 students. Answered conceptual questions during office hours. Shared grading responsibilities for exams and projects. <ul style="list-style-type: none">• Undergraduate Object Oriented Programming, David Smith	
REFEREED CONFERENCE PUBLICATIONS	Mehta, N.A. and Gray, A.G. FunclCA for Time Series Pattern Discovery. In <i>SIAM International Conference on Data Mining, 2009</i> . Selected for oral presentation. Nominated for Best Paper award.	
TALKS	Neural Information Processing Systems 2008 , Workshop on Statistical Analysis and Modeling of Response Dependencies in Neural Populations, "Estimating Neural Signal Dependence Using Kernels." Vancouver, Canada, December 2008.	
UNDER REVIEW	Mehta, N.A. , Starner, T., Jackson, M.M., Babalola, K.O., and James, G.A. Recognizing sign language from brain imaging (2009). Mehta, N.A. , Hameed, S.H.S., and Jackson, M.M. Optimal control strategies for an SSVEP-based brain-computer interface (2009). Mehta, N.A. Gray, A.G. The generative mean map kernel (2009).	
IN SUBMISSION	Mehta, N.A. Gray, A.G. Shattering the manifold with a large margin (2010).	
PRESENTATIONS	Park, J., Du, V., Oprea-Ilieș, G.M., Mehta, N.A. , and Birdsong, G.G. Age is a Risk Factor for HIV Infection in High Risk HPV Positive Women with ASC-US on Pap Test. (Poster) USCAP 2008, Denver, Colorado.	

RELEVANT
COURSEWORK

Machine Learning - Machine Learning, Natural Language Understanding, Probabilistic Graphical Models
Math - Information Theory, Intro to Graph Theory
Algorithms - Design and Analysis of Algorithms, Spectral Algorithms, Bioinformatics Algorithms
Optimization - Linear Optimization, Nonlinear Optimization
Misc. - User Interface Design, Spatial Statistics, Combinational Methods in Density Estimation

REFERENCES

Alexander Gray, Georgia Institute of Technology, College of Computing, agray@cc.gatech.edu.
Melody Moore Jackson, Georgia Institute of Technology, College of Computing, melody@cc.gatech.edu.
Thad Starner, Georgia Institute of Technology, College of Computing, thad@cc.gatech.edu.

PERSONAL

US Citizen