Nikhil Rasiwasia
Doctoral Candidate

Electrical and Computer Engineering
University of California San Diego
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EDUCATION

2005 – present	**University of California San Diego**	La Jolla, CA
	Ph.D. in Electrical and Computer Engineering	
Research Area	Computer Vision, Machine Learning	
Dissertation	Semantic Representation for Visual Recognition	
Adviser	Nuno Vasconcelos	
GPA	3.97	
2001 – 2005	**Indian Institute of Technology Kanpur**	Kanpur, India
	Bachelor of Technology in Electrical Engineering	
Thesis	3-D Face Reconstruction	
Adviser	K. S. Venkatesh	
GPA	9.0/10.0	

RESEARCH EXPERIENCE

2005 – present	**University of California San Diego**	La Jolla, CA
	Graduate Student Researcher	
	Department of Electrical and Computer Engineering	
July – Sept'09	**Microsoft Research**	Mountain View, CA
	Research Intern	
	Search Labs	
July – Sept'07	**Google Inc.**	Mountain View, CA
	Software Engineering Intern	
	Image Search Group	
May – Aug'05	**University of California San Diego**	La Jolla, CA
	Freelance Researcher	
	Department of Visual Arts	
May – July'04	**Fondazione GraphiTech**	Trento, Italy
	Research Intern	
	Center for Advanced Computer Graphics	

Teaching Experience

Fall 2006	**Teaching Assistant**
	University of California San Diego
	ECE 271A - Statistical Learning I (Graduate)
Summer 2005	**Lecturer**
	Indian Institute of Technology Kanpur
	Summer School - Image Processing (Undergraduate)

Honors

2010	Best student paper award in ACM Multimedia
2009	UCSD nominee for Google Fellowship
2008	Recognised by IBM T. J. Watson Research as an 'Emerging Leader in Multimedia'
2005	Full tuition scholarship and Research Assistantship at UCSD
2005	Nominated for "Best undergraduate student for all-around performance", IITK
2002, 2005	Certificate of Merit for Academic Excellence in Undergraduate Program, IITK
2001	All India Rank - 302 (top 0.2%) in IIT-JEE, 129 in Roorkee Entrance Exam

Publications

Journals

[1] **N. Rasiwasia** and N. Vasconcelos, *'Bridging the Semantic Gap: Query by Semantic Example'*, IEEE Transactions on Multimedia, 9(5), 923-938, August 2007.

[2] **N. Rasiwasia** and N. Vasconcelos, *'Holistic Context Models for Visual Recognition'*, Submitted to IEEE Transactions on Pattern Analysis and Machine Intelligence.

Conferences

[3] **N. Rasiwasia**, J. Costa Pereira, E. Coviello, G. Doyle, G.R.G. Lanckriet, R. Levy and N. Vasconcelos, *'A New Approach to Cross-Modal Multimedia Retrieval'*, ACM Conference on Multimedia, 251-260, November 2010 [**Oral**] [**Best student paper**]

[4] **N. Rasiwasia** and N. Vasconcelos, *'Holistic Context Modelling using Semantic Co-occurrences'*, IEEE Conference on Computer Vision and Pattern Recognition, Miami, June 2009

[5] **N. Rasiwasia** and N. Vasconcelos, *'Image Retrieval using Query by Contextual Example'*, ACM Conference on Multimedia Information Retrieval, pp. 164-171, Vancouver, Oct 2008

[6] **N. Rasiwasia** and N. Vasconcelos, *'A Systematic Study of the role of Context on Image Classification'*, IEEE Conference on Image Processing, 1720-1723, San Diego, Oct 2008 [**Oral**]

[7] **N. Rasiwasia** and N. Vasconcelos, *'Scene Classification with Low-dimensional Semantic Spaces and Weak Supervision'*, IEEE Conference on Computer Vision and Pattern Recognition, pp. 1-6, Anchorage, June 2008

[8] **N. Rasiwasia** and N. Vasconcelos, *'A study of Query by Semantic Example'*, 3rd International Workshop on Semantic Learning and Applications in Multimedia, pp. 1-8, Anchorage, June 2008 [**Oral**]

[9] **N. Rasiwasia**, P. J. Moreno and N. Vasconcelos, *'Query by Semantic Example'*, ACM International Conference on Image and Video Retrieval, LNCSPhoenix, 2006 [**Oral**]

Bachelor Thesis

[10] **N. Rasiwasia** and K. S. Venkatesh, *'The Avatar: 3D Face Reconstruction from two orthogonal pictures with application to facial makeover'*, Technical Report, Indian Institute of Technology Kanpur, May 2005

Selected Talks

Cross-Modal Multimedia Retrieval

Nov 2010   Yahoo Labs India, Bangalore, India

Context Models for Visual Recognition

Nov 2010   Microsoft Research India, Bangalore, India
September 2009   Google Inc., Mountain View, CA
August 2009   FX Palo Alto Laboratory, Inc., Palo Alto, CA
July 2009   Microsoft Research Silicon Valley, Mountain View, CA

Hierarchical Semantic Representation for Image Retrieval

Oct 2008   Southern California Computer Vision Meetup, UC Irvine, CA
Oct 2008   Emerging Leaders in Multimedia, IBM T. J. Watson Research Center, NY, USA

Computer Vision and Photography

Nov 2010   Photography Club, DreamWorks (Technicolor), Bangalore, India

Reviewing

IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)
IEEE Transactions on Multimedia
IEEE Transactions on Image Processing
Image and Vision Computing Journal
ACM Multimedia 2010

References

Available on request