

# Ramapriyan R. Pratiwadi

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Dallas, TX 75252

**RESEARCH INTERESTS** Neuromorphic engineering, device and process simulation, novel devices and materials

**EDUCATION** **University of Texas at Dallas**, Dallas, Texas USA  
M.S. Candidate, Materials Science

- Research Topic: “Neurally Inspired Architecture using Nanoscale Devices and Emerging Materials”
- Adviser: Eric M. Vogel

**University of Pennsylvania**, Philadelphia, Pennsylvania USA  
B.S.E. Electrical Engineering, 2004  
Minor: Mathematics

**HONORS AND AWARDS** Erik Jonsson Distinguished Research Fellowship, 2006-2008  
Senior Design Project: AquaNet - Low Power Water Analysis Network (Adviser: Jay N. Zemel)

- Second Place in EE Department
- Honorable Mention in SEAS Overall Competition

IEEE Student Award, University of Pennsylvania, 2004  
1st Runner Up, Merrill Lynch Case Study Competition, 2002

**ACADEMIC EXPERIENCE** **University of Texas at Dallas**, Dallas, Texas USA  
*Graduate Student* **August, 2006 - present**  
Includes current research and coursework. Research involves end-to-end device synthesis, from design and simulation to fabrication (in cleanroom) and measurement.  
**University of Pennsylvania**, Philadelphia, PA  
*Research Assistant* **May 2004 - July 2006**  
Brain Behavior Laboratory, Schizophrenia Research Center, Department of Psychiatry  
PI: Ruben C. Gur and Raquel E. Gur  
Duties included acquiring, analyzing, and organizing data from functional/structural MRI experiments.

**PUBLICATIONS** Gur RE, Turetsky BI, Loughhead J, Snyder W, Kohler C, Elliott M, Pratiwadi R, Ragland JD, Bilker WB, Siegel SJ, Kaner SJ, Arnold SE, Gur RC. 2007. Visual attention circuitry in schizophrenia investigated with oddball event-related functional magnetic resonance imaging. *Am J Psychiatry*. 164(3):442-9.  
Wolf DH, Turetsky BI, Loughhead J, Elliott MA, Pratiwadi R, Gur RE, Gur RC. Neural Response to Novelty and Deviance in Schizophrenia: Relationship to Clinical Symptoms. [submitted]

CONFERENCE  
PRESENTATIONS

Holloway M, Pratiwadi R, Rusten M, Busch S, Hakun J, Ehrman R, O'Brien CP, Childress AR, Langleben DD. 2006. Brain structure in substance-dependent patients with and without Antisocial Personality Disorder. 68th Annual Meeting of the College on Problems of Drug Dependence, Scottsdale, Arizona.

Ruparel K, Loughead J, Pratiwadi R, Tomita M, Ragland JD, Gur RC. 2006. Lie detection in single subjects by qualitative human expert analysis of fMRI data. 12th Annual Meeting of the Organization for Human Brain Mapping, Florence, Italy.

Elliott MA, Bloy L, Hulvershorn J, Ruparel K, Pratiwadi R, Loughead J, Gur RE, Gur RC. 2006. Habituation of the BOLD Response in fMRI. 12th Annual Meeting of the Organization for Human Brain Mapping, Florence, Italy.

Gualtieri EE, Ruparel K, Pratiwadi R, Hulvershorn J, Gur RC, Elliott MA. 2005. Comparison of Image Registration Algorithms for fMRI. 13th Annual Meeting of the International Society For Magnetic Resonance in Medicine, Miami, FL.

PROFESSIONAL  
EXPERIENCE

**Fox Asset Management**, Red Bank, New Jersey, USA

*Summer Intern*

**May 2002 - August 2002**

Assisted IT System Administrator with day to day operations. Created system in MS Excel to simplify customer account tracking. Provided technical support for MS Office, Bloomberg, Windows NT/2000. Researched investment candidates for socially responsible accounts.

**NBC Sports**, New York, New York USA

*Summer Intern*

**May 2001 - August 2001**

Worked in the Olympics IT division in preparation for the 2002 Winter Games in Salt Lake City, Utah. Provided primary technical support to 150 end-users in Salt Lake City, New York, and Stamford, CT. Created and deployed end user workstation images to field workers. Supervisor of Computer Operations at Wimbledon Tennis Championships in London, UK.

**Other Internships:** Lucent Technologies (Holmdel, NJ), AT&T (Middletown, NJ)

COMPUTER SKILLS

- Simulation Packages: HSpice, Davinci/Medici, TSuprem
- Statistical Packages: R, S-Plus, some experience with SAS
- Languages: C, Java, Perl, Unix shell scripts, MATLAB, IDL, SQL, some experience with C#
- Operating Systems: Unix/Linux, Windows, Mac