Ritobrato Datta, Ph.D.

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EDUCATION

2000-2006	Ph.D. Biophysics (MRI) Medical College of Wisconsin (MCW), Milwaukee, WI
1998-2000	M.Sc. Physiology, All India Institute of Medical Sciences (AIIMS), New Delhi, India
1995-1998	B.Sc. Human Biology (Honors Biophysics), All India Institute of Medical Sciences (AIIMS), New Delhi, India

RESEARCH AND PROFESSIONAL EXPERIENCE

2009-present	Post Doctoral Fellow – Department of Neurology, University of Pennsylvania , Philadelphia, Pa
	Mentors: Dr. John Detre, M.D. & Dr. Geoff Aguirre, M.D., Ph.D.
2007-2008	Staff Scientist – Prism Clinical Imaging, Inc. West Allis, Wi
	 Designed pre-operative fMRI experiments (language, memory, motor, vision) to map eloquent cortex for presurgical planning. Solved Image Quality & Post-processing QA on fMRI, DTI. Created brain mapping report for pre-surgical planning for neuroradiologists.
2006-2007	Research Associate – Dept. of Radiology, Medical College of Wisconsin , Milwaukee, Wi Mentor: Edgar A. DeYoe, Ph.D.
	• Assessed brain-related visual pathologies with different MRI modalities.
2000-2006	Research Assistant – Dept. of Biophysics, Medical College of Wisconsin , Milwaukee, Wi Dissertation title - A distributed topography of human visual attention: fMRI and Psychophysics. Dept of Biophysics. Medical College of Wisconsin. WI
	Advisor: Edgar A. DeYoe, Ph.D.

- Quantitatively investigated the topography of visual attention using fMRI and psychophysics.
- Developed/implemented novel method to identify regions of interest in the brain for statistical analysis.
- Designed, managed, and maintained experiments and protocols.

1998-2000 Masters Fellow – Pain Physiology Lab, AIIMS

Thesis title - Effect of Ventromedial hypothalamic (VMH) lesions on sucrose induced analgesia. Dept. of Physiology, All India Institute of Medical Science Advisor: Rashmi Mathur, Ph.D.

- Investigated the role of VMH in sucrose-induced analgesia in Wistar Rats
- Conducted various electrophysiology and behavioral tests to measure response to pain
- Performed stereotactic surgery to lesion VMH.
- Performed histology to confirm lesion site in the brain.

PROFESSIONAL TRAINING & WORKSHOPS ATTENDED

2007	Presurgical Mapping Workshop, HBM
2007	Diffusion Tensor Imaging – Slicer Workshop 2007
2006	Clinical fMRI: Presurgical Mapping Using fMRI and DTI

ACHIEVEMENTS/AWARDS

2005	Friends of MCW Award to present at International Scientific Meetings
2004	MCW Graduate Student Travel Award
2003	John Wiley Award - 100 best abstracts at Human Brain Mapping Conference
2000	Ranked 1st in M.Sc. Physiology graduating class at AIIMS
1998	Ranked 1st in national level examination for admission to M.Sc. Physiology
1005	al AIIMS Ranked 11th (out of 500) in national level entrance examination for
1995	admission to B.Sc. Human Biology at AIIMS

TEACHING EXPERIENCE

2003-2006	Taught and demonstrated real-time data acquisition using AFNI to
	participants of Functional MRI – An Introductory Course at MCW
2004-2006	Taught various fMRI experimental designs, data analysis methods to
	participants of Functional Magnetic Resonance Imaging - Advanced Course
	in Experimental Design and Image Analysis
2003	Demonstrated Neuroanatomical dissection to med. students at MCW
1998-2000	Demonstrated and taught Medical Physiology practicals to B.Sc.
	Human Biology & Medical students at AIIMS, New Delhi

PUBLICATIONS

PAPERS

- 1. **Dutta R.**, Mukherjee K, Mathur R. "Effect of VMH lesion on sucrose-fed analgesia in formalin pain". Japanese Journal of Physiology. 2001 Feb; 51(1): 63-9
- 2. Brefczynski, J.A., **Datta, R.**, Lewis, J.W., DeYoe, E.A. "The Topography of Visuospatial Attention as Revealed by Novel Visual Field Mapping Technique. J Cogn Neurosci. 2008 Aug 27.
- 3. Datta, R., DeYoe, E.A. "I know where you are secretly attending. Topography of human visual attention revealed with fMRI." Vision Research In Press
- 4. **Datta, R.**, Brefczynski, J.A., DeYoe, E.A. "The topography of visual attention while attending to a target in the absence and presence of distracters". (in final preparation)

ABSTRACTS

- 1. DeYoe E.A., Puckett A., Brefczynski-Lewis J.A., **Datta R.** The Cortical "Window of Attention" and Its Relationship to the Visual Field. (2009) Thirty Fourth Annual Interdisciplinary Conference, Jackson, Wyoming
- 2. Maciejewski, M., Mathis, J., **Datta, R.**, Ropella, R., DeYoe, E. "Validity of fMRI as an indicator of visual cortex function." (2007) Society for Neuroscience (SFN)
- 3. **Datta, R.**, DeYoe, E.A. (2006). "Beyond the spotlight: An attentional landscape model of visuospatial attention." Journal of Vision May; 6(6): 514
- 4. **Datta, R.**, DeYoe, E.A. (2005). "Attentional landscape: A distributed topography of attention" SFN.
- 5. **Datta, R.**, DeYoe, E.A. (2004). "I know where you are attending! Decoding the focus of attention from the brain with fMRI" SFN Press books
- 6. DeYoe, E.A., Brefczynski, J.A., **Datta, R.**, Huddleston, W.E. (2004) "The Expression and Control of Attentional Topography in Human Visual Cortex". HBM
- 7. Datta, R., Brefczynski, J.A., DeYoe, E.A. (2003). "Effect of distracters on the spatial distribution of human visual attention". Neuroimage Vol 19, No. 2, Page 14

ORAL PRESENTATIONS

- 1. Datta, R. (2008). Anatomy of a Paradigm. ASFNR
- 2. Datta, R., DeYoe, E.A. (2004). "I know where you are secretly attending! Reading the focus of attention from the brain with fMRI" Society For Neuroscience
- 3. Datta, R., Brefczynski, J.A., DeYoe, E.A. (2003). "Effect of distracters on the spatial distribution of human visual attention". Human Brain Mapping