

Sreepadma Priya (Siri) Sonty

PRACTICE ADDRESS

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EMPLOYMENT

- Nicklaus (Miami) Childrens Hospital - Clinical Neurophysiology** July 5th, 2016 – Sept 1st, 2017
Fellow – Post-Graduate Year 8
- University of Toronto – Residency in Pediatric Neurology** Jun 3rd, 2013 – Jun 30th, 2016
Resident Physician – Post-Graduate Years 5-7
- University of Toronto – Residency in Adult Neurology** July 1st, 2010 – June 2nd, 2013
Resident Physician – Post-Graduate Years 2-4
- Baylor College of Medicine - Residency in Adult Neurology** July 1st, 2009 – June 30th, 2010
Intern Physician – Department of Medicine, Post-Graduate Year 1

EDUCATION - Honors Program in Medical Education

Northwestern University, Evanston, IL	B.A. (Biology)	1995-1998
Northwestern University Institute for Neuroscience (NUIN)	Ph.D. (Cognitive Neurology)	2001-2007
Northwestern University Feinberg School of Medicine	M.D.	1998-2000; 2007-2009

SCIENTIFIC EXPERIENCE

- 1993-1997 Undergraduate independent research with Dr. Sriram Sonty, Dept of Ophthalmology, Humana Health Plans, Chicago, IL. *Comparative ocular hypotensive effects of topical beta blocker, alpha-agonist, and carbonic anhydrase inhibitor treatment regimens in glaucoma.*
- 1997-1998 Undergraduate Student with Dr. Peter Dallos, Department of Auditory Physiology, Neurobiology and Physiology, Northwestern University. *Electrical induction of outer hair cell motility within the hemicochlea preparation in the Mongolian gerbil.*
- 2000-2001 Howard Hughes Medical Institute Medical Student Research Fellow. *Language network alterations in aging and dementia.*
- 2001-2007 Graduate Student with Dr. Darren Gitelman and Dr. Marsel Mesulam, Cognitive Neurology and Alzheimer's Disease Center, Northwestern University. *Language network alterations in primary progressive aphasia (PPA).*
- 2001-2009 **Medical Scientist Training Program**, Northwestern University Feinberg School of Medicine

THESES AND UNIVERSITY PUBLICATIONS

1. Sonty, S.P. (2007) Primary Progressive Aphasia: perspectives from functional and structural neuroimaging. Ph.D. Thesis, Northwestern University, Neuroscience Ph.D. Program.

TEACHING EXPERIENCE

Spring 2003 Teaching Assistant, Cell Biology, Physiology, and Neurobiology. Dr. Linda Hicke and Dr. Robert Linsenmeier, Course Directors.

FELLOWSHIP AWARDS AND HONORS

Member, USA Today's "All-American Academic team", 1995
 Museum of Science and Industry and Nobel Foundation, "Outstanding Young Scientist" Award, 1995
 Bausch & Lomb, "Outstanding Achievement in Science" Award, 1995
 Robert R. McCormick School of Engineering and Applied Science Freshman Scholar, Northwestern University, 1996
 Howard Hughes Medical Institute (HHMI) Research Fellowship for Medical Students,
 Grant Period: 6/1/2000-5/31/2001, Amount: \$29,000
 Illinois Department of Public Health (IDPH) Alzheimer's Disease Research Fund – Early Researcher Award, Grant Period: 7/1/2000-6/30/2001, Amount: \$29,400
 Neuroscience in the Early Years – NIH Predoctoral Training Program (T32 AG020418),
 Grant Period: 9/1/2002-8/31/2003
 Mechanisms of Aging and Dementia – NIH Predoctoral Training Program (T32 A620506),
 Grant Period: 9/1/2003-8/31/2005
 Northwestern University Women's Faculty Organization (WFO) Research Day,
 Second Place Award for Clinical Science Presentation, 2005
 Northwestern Memorial Foundation (NMF) Innovation Award, Grant Period: 1/1/2005-6/30/2007
 Illinois Department of Public Health (IDPH) Alzheimer's Disease Research Fund, Early Researcher Award, Grant Period: 7/1/2006-6/30/2007, Amount: \$20,472

BIBLIOGRAPHY: ORIGINAL JOURNAL ARTICLES

1. **Sonty SP**, Mesulam MM, Weintraub S, Johnson NA, Parrish TB, Gitelman DR. (2007) Altered Effective Connectivity within the Language Network in Primary Progressive Aphasia. *Journal of Neuroscience* **27**(6): 1334-1345.
2. Gitelman DR, Nobre AC, **Sonty SP**, Parrish TB, Mesulam MM. (2005) Language network specializations: an analysis with parallel task designs and functional magnetic resonance imaging. *NeuroImage* **26**(4):975-985.
3. Apkarian AV, Sosa Y, **Sonty SP**, Levy RE, Harden RN, Parrish TB, Gitelman DR. (2004) Chronic back pain is associated with decreased prefrontal and thalamic gray matter density. *Journal of Neuroscience* **24**(46):10410-5.
4. **Sonty SP**, Mesulam MM, Thompson CK, Johnson N, Weintraub S, Parrish TB, Gitelman DR. (2003) Primary Progressive Aphasia: Anatomical and functional analysis of the language network. *Annals of Neurology* **15**: 35-49.

BIBLIOGRAPHY: ABSTRACTS

1. **Sonty SP**, Mesulam MM, Weintraub S, Johnson NA, Parrish TB, Gitelman DR. Dynamic Causal Modeling and Voxel-Based Morphometry of the Language Network in Primary Progressive Aphasia. *NeuroImage*, 2007 June.
2. **Sonty SP**, Mesulam MM, Weintraub S, Johnson NA, Parrish TB, Gitelman DR. Altered connectivity in the language network in Primary Progressive Aphasia. *NeuroImage* **26/S1**: S992, 2005 June.
3. **Sonty SP**, Mesulam MM, Nobre AC, Parrish TB, Gitelman DR. Hemispheric lateralization of language regions – an event-related fMRI investigation. *NeuroImage* **19**:S1366, 2003 June.
4. Gitelman DR, **Sonty SP**, Nobre AC, Parrish TB, Mesulam MM. Age-related changes in brain activity on two language tasks. *Soc. Neurosci. Abstr.* **28**: 625.5, 2002 Nov.
5. Sosa Y, **Sonty SP**, Harden RN, Levy RM, Mesulam MM, Gitelman DR, Apkarian AV. Decreased gray matter density in chronic pain: voxel-based (VBM) and skull-based (SIENAX) brain morphometry comparisons between chronic back pain patients and matched normal subjects. *Soc. Neurosci. Abstr.* **28**: 755.8, 2002 Nov.
6. Apkarian AV, **Sonty SP**, Sosa Y, Harden RN, Levy RM, Gitelman DR. Decreased thalamic gray matter density in chronic pain: voxel-based brain morphometry comparison between chronic low back pain patients and matched normal subjects. *NeuroImage*: 2002 June.
7. **Sonty SP**, Mesulam, MM, Thompson CK, Johnson N, Weintraub S, Parrish TB, Gitelman DR. Anatomical and functional analysis of language network changes in primary progressive aphasia. *Soc. Neurosci. Abstr.* **27**: 346.11, 2001 Nov.
8. **Sonty SP**, Mesulam, MM, Thompson CK, Johnson N, Weintraub S, Parrish TB, Gitelman DR. Anatomical and functional analysis of language network changes in primary progressive aphasia. *NeuroImage* **13(6)**: S608, 2001 June.
9. Gitelman DR, Nobre AC, **Sonty S**, Thompson CK, Parrish TB, Mesulam MM. Phonological and semantic activations in Primary Progressive Aphasia. *NeuroImage* **11(5)**: S122, 2000 June.
10. **Sonty SP**, Sonty S, Viana MAG. The additive ocular hypotensive effects of latanoprost on glaucomatous eyes on topical beta blocker, alpha agonist, and/or carbonic anhydrase inhibitor combined therapies. *Investigative Ophthalmology and Visual Science, ARVO Abstract Book* 39(4): S257, 1998.
11. **Sonty SP**, Sonty S. Pharmacological utilization of glaucoma drugs among glaucoma patients at Humana Health Plans. *Investigative Ophthalmology and Visual Science, ARVO Abstract Book* **38(4)**: S827, 1997.
12. **Sonty SP**, Sonty S, Viana MAG. The additive ocular hypotensive effect of 2% topical Dorzolamide on glaucomatous eyes on topical beta blocker therapy. *Investigative Ophthalmology and Visual Science, ARVO Abstract Book* 37(3): S1100, 1996.
13. **Sonty SP**, Sonty S, Viana MAG. The additive effects of topical 0.5% Apraclonidine on glaucomatous eyes on topical beta blocker therapy. *Investigative Ophthalmology and Visual Science, ARVO Abstract Book* 36(4): S738, 1995.
14. **Sonty SP**, Sonty S, Viana MAG. The comparative ocular hypotensive effects of Timolol, Betaxolol, and Optipranolol. *Investigative Ophthalmology and Visual Science, ARVO Abstract Book* 35(4): 1508, 1994.

NATIONAL SCIENTIFIC MEETINGS & INVITED LECTURES

Dec 2000	“Language Network Changes in Alzheimer’s Disease and Other Dementias,” Oral Presentation, Illinois Department of Public Health Alzheimer’s Disease Research Fund Annual Meeting, Chicago, IL
May 2001	“Language Network Changes in Primary Progressive Aphasia,” Oral Presentation, Howard Hughes Medical Institute (HHMI) Annual Meeting, Bethesda, MD
Jun 2001	“Anatomical and Functional Analysis of Language Network Changes in Primary Progressive Aphasia,” Poster Presentation, Organization for Human Brain Mapping (OHBM) Annual Meeting, Brighton, England
Nov 2001	“Language Network Changes in Primary Progressive Aphasia,” Oral Presentation, Society for Neuroscience Annual Meeting, San Diego, CA
Nov 2002	“Decreased Thalamic Gray Matter Density in Chronic Pain,” Poster Presentation, Society for Neuroscience Annual Meeting, Orlando, FL
Jun 2003	“Hemispheric Lateralization of language regions – an event-related fMRI investigation,” Poster Presentation, Organization for Human Brain Mapping (OHBM) Annual Meeting, New York City, NY
Jun 2005	“Intact activation but altered connectivity within the language network in PPA,” Poster Presentation, Organization for Human Brain Mapping (OHBM) Annual Meeting, Toronto, ON, Canada
Jan 2007	“Primary Progressive Aphasia – fMRI investigations of the Language Network,” Invited Lecture, Memory and Aging Center Friday Seminar, University of California San Francisco, San Francisco, CA
Jun 2007	“Dynamic Casual Modeling and Voxel-Based Morphometry of Primary Progressive Aphasia,” Poster Presentation, Organization of Human Brain Mapping (OHBM) Annual Meeting, Chicago, IL
Dec 2007	“Neuroimaging of Name-Object Associations in Primary Progressive Aphasia,” Oral Presentation, IDPH Alzheimer’s Disease Research Fund Annual Meeting, Chicago, IL

PRESENTATIONS

Apr 2001	“Anatomical and Functional Analysis of Language Network Changes in Primary Progressive Aphasia,” Oral Presentation, Northwestern Cognitive Brain Mapping Group, Weekly Seminar.
May 2001	“Anatomical and Functional Analysis of Language Network Changes in Primary Progressive Aphasia,” Poster Presentation, Cognitive Neurology and Alzheimer’s Disease Center (CNADC) Alzheimer’s Disease Research Day, Northwestern University
Dec 2001	“Voxel-Based Morphometry of Chronic Pain,” Oral Presentation, Northwestern Cognitive Brain Mapping Group, Weekly Seminar
Jan 2002	“Language in Aging and Dementia,” Oral Presentation, Cognitive Neurology and Alzheimer’s Disease Center (CNADC) Alzheimer’s Disease Seminar Series, Northwestern University
Jan 2003	“Clues to the functional and neural architecture of word meaning,” Oral Presentation, Cognitive Neurology Seminar, Northwestern University
Mar 2003	“Verbal Working Memory – Contributions of Neuroimaging,” Oral Presentation, Northwestern Cognitive Brain Mapping Group, Weekly Seminar
Jun 2003	“Hemispheric Lateralization of language regions – an event-related fMRI investigation,” Oral Presentation, Northwestern Cognitive Brain Mapping Group Data Blitz
Aug 2003	“Language Network Alterations in Aging and Dementia – studies with fMRI,” Oral Presentation, Northwestern University Institute for Neuroscience Annual Retreat
Sep 2003	“Language Network Alterations in Aging and Dementia – studies with fMRI,” Oral Presentation, Medical Scientist Training Program Annual Retreat
Mar 2004	“Age-related changes in lexical vs. sublexical routes of visual word processing,” Oral Presentation, Northwestern Cognitive Brain Mapping Group, Weekly Seminar

Dec 2004	"Functional and structural neuroimaging studies of Primary Progressive Aphasia," Proposal Defense Oral Presentation
Feb 2005	"Language network alterations in Primary Progressive Aphasia – studies with fMRI," Oral Presentation, Neuroscience Roundtable for Medical Students, Northwestern University
Feb 2005	"Intact activation but altered connectivity within the language network in PPA," Oral Presentation, Aging and Dementia Training Grant Day, Northwestern University
Feb 2005	"Intact activation but altered connectivity within the language network in PPA," Oral Presentation, Northwestern Cognitive Brain Mapping Group, Weekly Seminar, Northwestern University
Mar 2005	"Intact activation but altered connectivity within the language network in PPA," Poster Presentation, Women for Research All-Campus Research Day, Northwestern University
May 2005	"Intact activation but altered connectivity within the language network in PPA," Poster Presentation, CNADC Alzheimer's Disease Research Day, Northwestern University
Nov 2005	"Primary Progressive Aphasia – PPA and the Language Network," Oral Presentation, CNADC Alzheimer's Disease Seminar Series, Northwestern University
Apr 2006	"Cognition and Anatomy in three variants of Primary Progressive Aphasia," Oral Presentation, CNADC PPA Research Group Biweekly Seminar
May 2006	"Axonal Injury within the language network in Primary Progressive Aphasia," Oral Presentation, CNADC PPA Research Group Biweekly Seminar
Jun 2006	"Linear Algebra and Matrices," Cognitive Brain Mapping Group (CBMG) Biweekly fMRI Methods Seminar
Jan 2007	"Primary Progressive Aphasia – fMRI investigations of the Language Network," Oral Presentation, Northwestern University CBMG Biweekly Seminar
Mar 2007	"Primary Progressive Aphasia – Neuroimaging of Repetition Priming for Words and Pictures," Northwestern Cognitive Brain Mapping Group (CBMG) Annual Data Blitz
Apr 2007	"Primary Progressive Aphasia – fMRI investigations of the Language Network," Ph.D. Defense
May 2007	"Dynamic Casual Modeling – Theory," Cognitive Brian Mapping Group (CBMG) Biweekly fMRI Methods Seminar

EXTRA-CURRICULAR

Dance

South Indian Classical Dance – performer/choreographer

Bharatanatyam: Guru: Mrs. Sudha Srinivasan, Professional Debut (*Arangetram*) Aug 1987

Kuchipudi: Guru: Prof. K. Uma Rama Rao, Professional Debut (*Nrityanjali*) Apr 1991

- Over 400 performances and lecture-demonstrations for academic and cultural organizations nationwide
- Four performance tours in the USA and in India: 1992, 1993, 1996, and 1997
- Guest Artiste – 1993 Parliament of the World's Religions (CPWR) Centenary
- Awardee: "**Nrityakala Manjari**" and "**Natya Sudha Lahiri**" Titles for excellence in Indian Dance, 1998

Flamenco: Instructor: Wendy Clinard, *Clinard Dance Theatre, Chicago, IL* 2002-2006

Unraveling Rhythms: *A cross-cultural dance-music-visual art performance conversation* 2003-2006

- A collaboration with Clinard Dance Theatre and Las Guitarras de Espana
- over 30 performances across the Midwest and in India
- <http://www.theguitarsofspain.com/theguitarsofspain.comunraveling.htm>
- <http://www.theguitarsofspain.com/URPRESS.htm>

Drama/Theatre**The Neo-Futurists**

- "Inside My Mouth" Writer/Performer May-June, 2004
- "A 60-Minute History of Humankind" Performer Oct-Nov 2003

Vocal Performance**A capella**

- **MidWestern Wind**, (12 voices – www.midwesternwind.20m.com) 2000-2002
- **Choral - Alto/Contralto**
University Singers, Northwestern University (65 voices) 1995-1997