

Raksha Anand Mudar

I. Personal History and Professional Experience

A. Educational Background

All India Institute of Speech and Hearing, University of Mysore, Mysore, India, B.Sc., Speech and Hearing, 1994

All India Institute of Speech and Hearing, University of Mysore, Mysore, India, M.Sc., Speech and Hearing, 1996

Portland State University, Portland, OR, Graduate Certification, Gerontology, 2002

The University of Texas at Dallas, Richardson, TX, Ph.D., Communication Sciences and Disorders, 2008

B. List of Academic Positions since Final Degree

Post-Doctoral Fellow (2008-2010), School of Behavioral and Brain Sciences, The University of Texas at Dallas, Richardson, TX

Research Assistant Professor (2010-2011), School of Behavioral and Brain Sciences, The University of Texas at Dallas, Richardson, TX

Adjunct Assistant Professor (2011-present, 0% appointment), School of Behavioral and Brain Sciences, The University of Texas at Dallas, Richardson, TX

Assistant Professor (2011-present), Department of Speech and Hearing Science, University of Illinois at Urbana-Champaign

Faculty Affiliate (2011-present), Center on Health, Aging, and Disability, University of Illinois at Urbana-Champaign

Faculty Affiliate (2012-present), Neuroscience Program, University of Illinois at Urbana-Champaign

Research Affiliate (2012-present), Carle Foundation Hospital, Urbana, IL

C. Other Professional Employment

Speech Pathologist (1996-1997), National Institute of Mental Health and Neuro Sciences, Bangalore, India

Lecturer in Speech-Language Pathology (1997-2000), Dr. S. R. Chandrashekar Institute of Speech and Hearing, Bangalore University, India

Clinical Fellow in Speech-Language Pathology (2001-2002), Portland VA Medical Center, Portland, OR

Graduate Research Assistant (2002-2008), School of Behavioral and Brain Sciences, The University of Texas at Dallas, Richardson, TX

Graduate Teaching Assistant (2005-2006), School of Behavioral and Brain Sciences, The University of Texas at Dallas, Richardson, TX

D. Honors, Recognitions, and Outstanding Achievements

1996 Manohar Memorial Young Scientist Award in Speech Pathology, XXVIII National Conference of Indian Speech and Hearing Association, Calcutta, India

1996 University Grants Commission Research Fellowship, Government of India

2003 Myrna D. Schlegal A.W.A.R.E. Scholarship, Alzheimer's Association Greater Dallas Chapter

2007 William C. Jackson Jr. Endowment Scholarship, The University of Texas at Dallas

2007 UTD Alumni Association Ring Award for Outstanding Student, The University of Texas at Dallas

Spring 2012, 2013, 2014, 2015, 2016; fall 2013, 2015, 2016 Teachers Ranked as Excellent, University of Illinois at Urbana-Champaign

E. Grants Received

07/2011-07/2013

Chapman, S. B. (PI), Hart, J., & **Mudar R. A. (Co-PI)**. Staving off Alzheimer's disease. RGK Foundation, \$250,000.

- 01/2012-12/2014 **Mudar, R. A. (PI)**, Hart, J., & Womack, K. Neural markers of subjective cognitive impairment. Alzheimer’s Association New Investigator Award (NIRG-11-173815), \$100,000 (one year no-cost extension).
- 07/2012-06/2014 **Mudar, R. A. (PI)**, & Llano, D. Neural markers of strategic learning in individuals with memory impairment. Center on Health, Aging, and Disability Pilot Grant, University of Illinois at Urbana-Champaign, \$20,000.
- 09/2013-09/2014 Chapman, S. B. (PI), & **Mudar, R. A. (Co-PI)**. Cognitive training in MCI, The Dallas Foundation, \$45,000.
- 08/2015-01/2018 **Mudar, R. A. (PI)**, & Husain, F. T. Impact of hearing loss on brain and cognition in older adults. Center on Health, Aging, and Disability Pilot Grant, University of Illinois at Urbana-Champaign, \$20,000.

II. Publications and Creative Works

* Denotes publication that has undergone stringent editorial review by peers.

A. Doctoral Thesis Title

Anand, R. (2008). Differences between gist and detailed processing (Doctoral dissertation). Pro-Quest Dissertations and Theses database. (UMI No: 3305835).

B. Chapters in Books (in print or accepted)

1. Chapman, S. B., Gamino, J. F., & **Mudar, R. A.** (2011). Higher-order strategic gist reasoning in adolescence. In V. Reyna, S. B. Chapman, M. R. Dougherty, & J. Confrey (Eds.), *The Adolescent Brain: Learning, Reasoning, and Decision Making* (123-151). New York, NY: American Psychological Association.
2. Chapman, S. B., & **Mudar, R. A.** (2014). Language and discourse. In M. J. Aminoff & R. B. Daroff (Eds.), *Encyclopedia of Neurological Sciences* (834-936). San Diego, CA: Academic Press.
3. **Mudar, R.A.**, Chapman, S.B. (2017). Language and Discourse. In Reference Module in Neuroscience and Biobehavioral Psychology, Elsevier, 2017. ISBN 9780128093245
4. **Mudar, R. A.**, & Chiang, H. S. (in press). Categorization and aging. In H. Cohen, & C. Lefebvre (Eds.), *Handbook of Categorization in Cognitive Science*. San Diego, CA: Elsevier.

C. Articles in Journals (in print or accepted) *Published under names Raksha, H. R., Anand, R., & Mudar, R. A.*

1. **Anand, R.**, Chapman, S. B., Zientz, J., & Toussaint, K. (2005). Mild cognitive impairment: A clinical perspective. *SIG 15 Perspectives on Gerontology*, 10, 10-14.
2. *Wong, S. B. C., Chapman, S. B., Cook, L. G., **Anand, R.**, Gamino, J. F., & Devous, M. D. (2006). A SPECT study of language and brain reorganization three years after pediatric brain injury. *Progress in Brain Research*, 157, 173-185.
3. *Chapman, S. B., **Anand, R.**, Sparks, G., & Cullum, C. M. (2006). Gist distinctions in healthy cognitive aging versus mild Alzheimer’s disease. *Brain Impairment*, 7(3), 223-233.
4. *Kraut, M. A., Cherry, B., Pitcock, J. A., **Anand, R.**, Li, J., Vestal, L., Henderson, V. W., Hart, J. (2007). The semantic object retrieval test (SORT) in amnesic mild cognitive impairment. *Cognitive Behavioral Neurology*, 20(1), 62-67.
5. *Hart, J., **Anand, R.**, Zoccolli, S., Maguire, M., Gamino, J., Tillman, G., King, R., & Kraut, M. A. (2007). Neural substrates of semantic memory. *Journal of International Neuropsychological Society*, 13(5), 865-880.
6. *Wong, S. B. C., **Anand, R.**, Chapman, S. B., Audette, R., & Zientz, J. (2009). When nouns and verbs degrade: Facilitating communication in semantic dementia. *Aphasiology*, 23(2), 286-301.
7. **Anand, R.**, Hart, J., Moore, P. S., & Chapman, S. B. (2009). Frontotemporal lobar degeneration: Characterizing semantic binding and abstracted meaning abilities. *SIG 2*

- Perspectives on Neurophysiology and Neurogenic Speech and Language Disorders*, 19, 117-125
8. *Shivashankar, N., Priya, G. V., **Raksha, H. R.**, & Ratnavalli, E. R. (2010). Language profile of a child with Landau-Kleffner syndrome. *Indian Journal of Applied Linguistics*, 36, 171-180.
 9. ***Anand, R.**, Chapman, S. B., Rackley, A., Keebler, M., Zientz, J., & Hart, J. (2011). Gist-based reasoning training in cognitively normal seniors. *International Journal of Geriatric Psychiatry*, 26(9), 961-968.
 10. ***Anand, R.**, Chapman, S. B., Rackley, A., & Zientz, J. (2011). Brain health fitness: Beyond retirement. *Educational Gerontology*, 37(6), 450-465.
 11. *Calley, C. S., Motes, M. A., Chiang, H., Buhl, V., Spence, J. S., Abdi, H., **Anand, R.**, Maguire, M., Estevez, L., Briggs, R., Freeman, T., & Hart, J. (2013). Threat as a feature in visual semantic object memory. *Human Brain Mapping*, 34(8), 1946-1955.
 12. *Hart, J., Maguire, M., Motes, M., **Mudar, R. A.**, Chiang, H., Womack, K., & Kraut, M. A. (2013). Semantic memory retrieval circuit: Role of BA6 and thalamus. *Brain and Language*, 26(1), 89-98.
 13. *Chiang, H., Motes, M. A., **Mudar, R. A.**, Rao, N. K., Mansinghani, S., Brier, M. R., Maguire, M. J., Kraut, M. A., & Hart, J. (2013). Semantic processing and response inhibition. *NeuroReport*, 24(16), 889-893.
 14. *Chapman, S. B., & **Mudar, R. A.** (2013). Discourse gist: A window into the brain's complex cognitive capacity. *Discourse Studies*, 15(5), 515-529.
 15. *Chiang, H., **Mudar, R. A.**, Spence, J. S., Pudhiyidath, A., Eroh, J., DeLaRosa, B., Kraut, M. A., & Hart, J. (2014). Age-related changes in feature-based object memory retrieval as measured by event-related potentials. *Biological Psychology*, 100, 106-114.
 16. *Chapman, S. B., & **Mudar, R. A.** (2014). Enhancement of cognitive and neural functions through complex reasoning training: Evidence from normal and clinical populations. *Frontiers in System Neuroscience*, 8, Article 69. doi: 10.3389/fnsys.2014.00069
 17. ***Mudar, R. A.**, Chiang, H., Maguire, J. M., Spence, J. S., Eroh, J., Kraut, A. K., & Hart, J. (2015). Effects of age on cognitive control during semantic categorization. *Behavioural Brain Research*, 287, 285-293.
 18. *Chiang, H., **Mudar, R. A.**, Pudhiyidath, A., Spence, J. S., Womack, K. B., Cullum, M. C., Tanner, T. A., Eroh, J., Kraut, M. A., & Hart, J. (2015). Altered neural activity during semantic object memory retrieval in amnesic mild cognitive impairment as measured by event-related potentials. *Journal of Alzheimer's Disease*, 46(3), 703-717.
 19. ***Mudar, R. A.**, Chiang, H., Eroh, J., Nguyen, L. T., Maguire, J. M., Spence, J. S., Kung, F., Kraut, A. A., & Hart, J. (2016). The Effects of amnesic mild cognitive impairment on go/nogo semantic categorization task performance and event-related potentials. *Journal of Alzheimer's Disease*, 50(2), 577-590.
 20. ***Mudar, R. A.**, Chapman, S. B., Rackley, A., Eroh, J., Chiang, H., Perez, A., Venza, E., & Spence, J. (2016). Enhancing latent cognitive capacity in mild cognitive impairment with gist reasoning training: A pilot study. *International Journal of Geriatric Psychiatry*. doi: 10.1002/gps.4492
 21. ***Mudar R. A.**, & Husain, F. T. (2016). Neural alterations in acquired age-related hearing loss. *Frontiers in Psychology*. doi: 10.3389/fpsyg.2016.00828
 22. *Neils-Strunjas, J., Paul, D., Clark, A.N., **Mudar, R.**, Duff, M.C., Waldron-Perrine, B., & Bechtold, K.T. (in press). Role of resilience in the rehabilitation of adults with acquired brain injury. *Brain Injury*, 31, 131-139.
 23. *Nguyen, L.T., **Mudar, R.A.**, Chiang, H.S., Schneider, J.M., Maguire, M.J., Kraut, M.A., Hart Jr., J., & (accepted with revisions). Theta and Alpha Alterations in Amnesic Mild Cognitive Impairment in Semantic Go/NoGo Tasks. *Frontiers in Aging Neuroscience*.

D. Abstracts (in print or accepted) *Published under names Anand, R., & Mudar, R. A.*

1. **Anand, R.**, Cook, L., & Chapman, S. B. (2005). Dissolution of discourse gist in early stages of Alzheimer's disease. *Journal of the International Neuropsychological Society*, 11(S1), 94.
2. **Anand, R.**, Maguire, M. J., Chapman, S. B., Hart, J. & Moore, P. S. (2008). Gist-based and detail-based processing of information: Effects of normal cognitive aging. *Journal of the International Neuropsychological Society*, 14(S1), 155.
3. Chiang, H. S., **Mudar, R. A.**, Rackley, A., Venza, E., Pudhiyidath, A., Van, J., Martin-Cook, K., Womack, K., Kraut, M. A., & Hart, J. (2013). An early fMRI marker of semantic memory deficits in patients with amnesic mild cognitive impairment. *Alzheimer's & Dementia: The Journal of the Alzheimer's Association*, 9(4), Supplement, P580.
4. Chiang, H. S., **Mudar, R. A.**, Eroh, J., Spence, J. S., Pudhiyidath, A., Tanner, J., Venza, E., Rackley, A., Martin-Cook, K., Womack, K. B., Bartz, E. K., Kraut, M. A., Hart J. (2014). Accentuated brain responses during semantic object memory retrieval in amnesic mild cognitive impairment as measured by event-related potentials. *Neurology*, 82(10), Supplement, P6.241.
5. **Mudar, R. A.**, Eroh, J., Chiang, H. S., Venza, E., Rackley, A., Womack, K., & Hart, J. (2014). The influence of semantic categorization on response inhibition in MCI. *Alzheimer's & Dementia: The Journal of the Alzheimer's Association*, 10(4), Supplement, P542.
6. Llano, D. A., Bundela, S., **Mudar, R. A.**, & Devanarayan, V. (2016). Identification of a novel CSF peptide signature that is useful for both Alzheimer's disease diagnosis and predicting future disease progression. *The Journal of the Alzheimer's Association*, 12(7), Supplement, P1058.

E. Refereed Conference Papers and Presentations *Presented under names Raksha, H. R., Anand, R., & Mudar, R. A.*

1. Mahendra, N., & **Raksha, H R.** (1996, January). Response patterns on a Word Association Test (WAT): Effects of aging. Oral presentation at the XXVIII National Conference of Indian Speech and Hearing Association, Calcutta, India.
2. **Raksha, H. R.**, & Mahendra, N. (1996, January). Generative naming in the elderly: Evidence of an age related decline. Oral presentation at the XXVIII National Conference of Indian Speech and Hearing Association, Calcutta, India.
3. **Raksha, H. R.** (1998, February). Verbal fluency in elderly: A cross language comparison in bilinguals. Oral presentation at the XXX National Conference of Indian Speech and Hearing Association, Puri, India.
4. **Raksha, H. R.** (1999, February). Oral and written picture description in elderly. Oral presentation at the XXXI National Conference of Indian Speech and Hearing Association, Chandigarh, India.
5. **Raksha, H. R.**, & Karanth, P. (1999, February). Semantic deficit in dementia of the Alzheimer's type. Oral presentation at the XXXI National Conference of Indian Speech and Hearing Association, Chandigarh, India.
6. **Anand, R.**, Zientz, J., & Chapman, S. B. (2004, November). Discourse gist in mild cognitive impairment. Poster presentation at the American Speech-Language Hearing Association Convention, Philadelphia, PA.
7. **Anand, R.**, Chapman, S. B., & Sparks, G. (2006, April). Gist abstraction: Effects of age and Alzheimer's disease. Poster presentation at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
8. **Anand, R.**, Maguire, M. J., Chapman, S. B., & Hart, J. (2008, April). Seeing the forests and the trees: Exploring the neurological underpinnings of gist and detail processing. Poster presentation at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
9. Maguire, M., White, J. J., Brier, M., Miao, M., **Anand, R.**, Reagor, M. K., & Dove, G. O. (2009, April). An event related potentials study of novel verb processing in young children. Poster presentation at the Society for Research in Child Development (SRCD) 2009 Biennial Meeting, Denver, CO.

10. **Anand, R.**, Motes, M. A., Maguire, M. J., Moore, P. S., Chapman, S. B., & Hart, J. (2009, October). Neural basis of abstracted meaning. Poster presentation at the Annual Meeting of the Neurobiology of Language, Chicago, IL.
11. Chapman, S. B., & **Anand, R.** (2010, April). Maximizing frontal lobe function: The last to develop and the first to go. Oral presentation at the Texas Speech and Hearing Association Convention, Dallas, TX.
12. Bartz, E. K., Keebler, M., Gardner, G., **Anand, R.**, Uh, J., Lu, H., Cooper, L., Chapman, S. B., & Hart, J. (2010, November). Brain changes after physical exercise in healthy seniors. Poster presentation at the Society for Neuroscience Annual Meeting, San Francisco, CA.
13. Keebler, K., Bartz, E. K., Gardner, C., **Anand, R.**, Cooper, L., Defina, H., Lu, H., Hart, J., & Chapman, S. B. (2010, November). Cognitive changes after brain training or physical training in cognitively normal seniors. Poster presentation at the Society for Neuroscience Annual Meeting, San Francisco, CA.
14. **Anand, R.**, Chapman, S. B., Rackley, A., Keebler, M., Zientz, J., & Hart, J. (2010, November). Gist-based reasoning training in cognitively normal seniors. Oral presentation at the Gerontological Society of America, New Orleans, LA, November, 2010.
15. **Anand, R.**, Chiang, H., Kraut, M., Bartz, E., Maguire, M., & Hart, J. (2011, April). Effects of semantics on inhibitory processes in aging. Poster presentation at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
16. Chiang, H., **Mudar, R. A.**, Eroh, J. T., Strain, J. F., Patel, R. H., Bartz, E. K., Martin-Cook, M., Kraut, M. A., & Hart, J. (2011, September). An electrophysiological marker of an object abstraction deficit in mild cognitive impairment. Poster presentation at the Society for Psychological Research, Boston, MA.
17. Chiang, H., Kraut, M. A., **Mudar, R. A.**, & Hart, J. (2011, November). Which one is heavier? Which one is larger? Electrophysiological evidence of semantic size and weight processes in the brain. Poster presentation at the Society for Neuroscience Annual Meeting, Washington, DC.
18. Chiang, H., **Mudar, R. A.**, Bartz, E. K., Kraut, M. A., & Hart, J. (2012, April). Event-related potentials (ERPs) reflect a distinctive frontal activity in a feature-based object knowledge retrieval process in aging. Poster presentation at the Cognitive Neuroscience Society Annual Meeting, Chicago, IL.
19. **Mudar, R. A.**, Chiang, H., Motes, M. A., Maguire, M. J., Bartz, E. K., and Hart, J. (2012, April). Neural basis of gist and detail processing: Effects of normal aging. Poster presentation at the Cognitive Neuroscience Society Annual Meeting, Chicago, IL.
20. Chiang, H., **Mudar, R. A.**, Bartz, E. K., Martin-Cook, K., Kraut, M. A., & Hart, J. (2012, April). Loss of differentiation in event-related potentials (ERPs) to reflect a feature-based object memory retrieval process in patients with mild cognitive impairment. Poster presentation at the Annual meeting of the American Academy of Neurology, New Orleans, LA.
21. **Mudar, R. A.**, Chiang, H., Eroh, J. T., Rackley, A., Venza, E., Martin-Cook, K., Womack, K., Hart, J., & Chapman, S. B. (2013, April). Benefits of cognitive training in individuals with mild cognitive impairment. Poster presentation at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
22. Chiang, H., **Mudar, R. A.**, Rackley, A., Venza, E., Pudhiyidath, A., Van, J., Martin-Cook, K., Womack, K., Kraut, A. A., & Hart, J. (2013, July). An early fMRI marker of semantic memory deficits in patients with amnesic mild cognitive impairment. Poster presentation at the Alzheimer's Association International Conference, Boston, MA.
23. **Mudar, R. A.**, Gamino, J., Cook, L., Keebler, M., & Chapman, S. B. (2013, November). Strategy-based gist reasoning training in normal & clinical populations. Oral presentation at the American Speech-Language Hearing Association Convention, Chicago, IL.
24. Perez, A. M., Chiang, W., **Mudar, R. A.**, Rackley, A., Venza, E., & Chapman, S. B. (2013, November). Decision making ability in healthy older adults and older adults with pre-mild cognitive impairment. Poster presentation at the Gerontological Society of America, New Orleans, LA.

25. Venza, E., Pudhiyidath, A., Chiang, H. S., **Mudar, R. A.**, Rackley, A., Spence, J., & Hart, J. (2014, April). Event-related potentials of response selection and inhibition modulated by complexity of object categorization in normal aging. Poster presentation at the Cognitive Neuroscience Society Annual Meeting, Boston, MA.
26. Eroh, J., Chiang, H. S., **Mudar, R.A.**, Kraut, M.A., Hart, J. Jr. (2014, April). The effects of cue modality on an object memory retrieval task. Poster presentation at Cognitive Neuroscience Society Annual Meeting, Boston, MA.
27. Chiang, H. S., **Mudar, R. A.**, Eroh, J., Spence, J. S., Pudhiyidath, A., Tanner, J., Venza, E., Rackley, A., Martin-Cook, K., Womack, K. B., Bartz, E. K., Kraut, M. A., & Hart J. (May, 2014). Accentuated brain responses during semantic object memory retrieval in amnesic mild cognitive impairment as measured by event-related potentials. Poster presentation at the Annual Meeting of the American Academy of Neurology, Philadelphia, PA.
28. **Mudar, R. A.**, Chiang, H.S., Eroh, J.T., Venza, E., Rackley, A., Womack, K., & Hart, J. (July 2014). The Influence of semantic categorization on response inhibition in MCI. Poster Presentation at the Alzheimer's Association International Conference, Copenhagen, Denmark.
29. Hengst, J., Kortte, K., **Mudar, R. A.**, Duff, M., Clark, A., Maestas, K., Neils-Strunjas, J., & Paul, D. (2014, November). An Activity-based framework for using games as clinical interventions for acquired cognitive-communication disorders. Oral presentation at the American Speech-Language Hearing Association Convention, Orlando, FL.
30. Mullen, S., Bullard, T., Cohen, J., Palac, D., Hua, A., Johnson, A., & **Mudar, R. A.** Comparison of traditional and tablet-delivered Trails A & B in three samples. Poster presentation at the Cognitive Neuroscience Society A, San Francisco, CA, March 2015.
31. Pudhiyidath, A., Chiang, H. S., **Mudar, R. A.**, Spence, J. S., Womack, K. B., Cullum, C. M., Tanner, J., Kraut, M. A., & Hart, J. Jr. (2015, March). Semantic object memory retrieval in amnesic mild cognitive impairment: An event-related potential study. Poster presentation at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
32. Neils-Strunjas, J., Bechtold, K., Clark, A., Maestas, K., **Mudar, R. A.**, Duff, M., Waldron-Perrine, B., & Paul, D. (2015, November). The role of resilience in the rehab of adults with acquired brain injury. Oral presentation at the American Speech-Language Hearing Association Convention, Denver, CO.
33. **Mudar, R. A.**, Chapman, S. B., Chiang, H. S., Eroh, J.T., Venza, E., & Rackley, A. (2015, November). Gist-based cognitive training in individuals with mild cognitive impairment. Oral presentation at the American Speech-Language Hearing Association Convention, Denver, CO.
34. Nguyen, L. T., Chiang, H. S., Eroh, J., Maguire, M. J., Kraut, A. A., Hart, J., & **Mudar, R. A.** (2016, April). Alpha power changes in amnesic mild cognitive impairment in go/nogo tasks involving semantic categorization. Poster presentation at the Cognitive Neuroscience Society Annual Meeting, New York, NY.
35. Llano, D. A., Bundela, S., **Mudar, R. A.**, & Devanarayan, V. (2016, July). Identification of a novel CSF peptide signature that is useful for both Alzheimer's disease diagnosis and predicting future disease progression. Poster presentation at the Alzheimer's Association International Conference, Toronto, Canada.
36. Nguyen, L.T. & **Mudar, R.A.** Alpha Power Changes in Amnesic Mild Cognitive Impairment in Go/NoGo Tasks Involving Semantic Categorization. Poster presented at The Gerontological Society of America 69th Annual Scientific Meeting, New Orleans, LA, November 2016.
37. **Mudar, R. A.**, Paul, D., Mashima, P., Waldron-Perrine, B., Ashman, T., & Bechtold, K. (2016, November). Beyond silos in cognitive rehabilitation: Integration of interprofessional collaboration, telehealth, and health literacy. Seminar presented at the annual convention of the American Speech-Language-Hearing Association, Philadelphia, PA.

F. Invited Talks

1. **Anand, R.** (2006, April). Mild cognitive impairment: A clinical perspective. DFW Aphasiology Association, Dallas, TX.
2. **Anand, R.** (2007, September). Differences between gist and detail processing. FLASH series, Callier Center, The University of Texas at Dallas, Dallas, TX
3. **Anand, R.** (2010, October). Aging and brain health. Applied Gerontology Division, College of Public Affairs and Community Service, University of North Texas, Denton, TX.
4. **Anand, R.** (2011, April). Semantic abstraction in mild cognitive impairment. Journal Club, Alzheimer's Disease Center, The University of Texas Southwestern Medical Center, Dallas, TX.
5. **Mudar R. A.** (2011, October). Gist abstraction in normal aging and mild cognitive impairment. Brain and Cognition Division Brown Bag Talk, College of Liberal Arts and Sciences, University of Illinois at Urbana-Champaign.
6. **Mudar, R. A.** (2011, November). Semantic Abstraction and Aging. Speech and Hearing Science Proseminar, University of Illinois at Urbana-Champaign.
7. **Mudar R. A.** (2013, July). Semantic processing in mild cognitive impairment. Brain Health Frontiers Lunch Lecture Series, The University of Texas at Dallas, Richardson, TX.
8. **Mudar R. A.** (2013, September). Mild cognitive impairment: Assessment and training. Midwestern Geriatric Symposium, Urbana, IL.
9. **Mudar R. A.** (2014, April). Mild cognitive impairment. Wellness and Aging Certificate Program: Comprehensive Education for Geriatric-Focused Professionals. Continuing Education Institute of Illinois, Champaign, IL.
10. **Mudar, R.A.** (2014, October). Benefits of cognitive training in individuals with mild cognitive impairment. 2nd Annual World Congress of Geriatrics and Gerontology, Taiyuan, China.
11. **Mudar, R. A., & Mendez, C.** (2015, April). June Carter Cash is dancing for us": Perspectives from an intensive student training program involving patients with dementia. Proseminar, University of Illinois at Urbana-Champaign.
12. **Mudar, R. A.** (2016, April). Studying cognitive wellness in older adults using electroencephalography. The Chittenden Symposium, University of Illinois at Urbana-Champaign.
13. **Mudar, R. A.** (2017, April). Event-related theta and alpha alterations in amnesic mild cognitive impairment. Cognitive Neuroscience Division Brown Bag, College of Liberal Arts and Sciences, University of Illinois at Urbana-Champaign.

G. *Professional Newsletter*

Waldron-Perrine, B., Neils-Strunjas, J., Paul, A., Clark, A., Mudar, R.A., Maestas, K., Duff, M., & Bechtold, K. T. (2016). Integrating resilience-building into the neurorehabilitation process. *Brain Injury Professional*, 12, 22-25.

III. Teaching and Mentoring

A. Courses Taught

<u>University of Illinois at Urbana-Champaign</u> SHS 271, Communication and Aging	Fall 2011; 2012; 2013; 2014; 2015; 2016
SHS 533, Advanced Language Diagnostics	Fall 2012; 2013; 2014
SHS 593, Dementia and Associated Communication Disorders	Spring 2012; 2013; 2014; 2015; 2016; 2017
SHS 170, Introduction to Communication Systems and Disorders	Fall 2015; 2016

University of Texas at Dallas

COMD 7389 Alzheimer's Disease and Associated Disorders

Spring 2005; 2006

Dr. S. R. Chandrashekar Institute of Speech and Hearing

Bangalore University, Bangalore, India

Advanced Course in Adult Neurogenic Disorders

Sept 1997-Dec 2000

B. Supervision of Graduate Students

Doctoral Student: Committee Chair

Lydia Nguyen, Graduate Program in Neuroscience, University of Illinois at Urbana-Champaign
(August 2014-present)

- Topic: Event-related spectral perturbation in amnesic mild cognitive impairment
- Current Status: Currently enrolled

Shraddha Shende, Speech and Hearing Science, University of Illinois at Urbana-Champaign (August 2016-Present)

- Topic: Cognitive and neural alterations in age-associated hearing loss
- Current Status: Currently enrolled

Doctoral Students: Committee Member

Early Research Project

Hsueh-Sheng Chiang, Cognition and Neuroscience, The University of Texas at Dallas (2012-2013)

- Title: Semantic processing and response inhibition
- Current standing: Postdoctoral Fellow at UT Southwestern Medical Center

Suma Ramesh Devanga, Speech and Hearing Science, University of Illinois at Urbana-Champaign
(2014-2015)

- Title: Language learning in social context: An aphasia treatment case study
- Current Status: Graduated in 2017

Anna Tendera, Speech and Hearing Science, University of Illinois at Urbana-Champaign (2015-2016)

- Title: Interactions between the emergence of syntax and speech rate in normal developing children between 24 Months and 36 months
- Current Status: Currently enrolled

Martha Hawkins Sherrill, Speech and Hearing Science, University of Illinois at Urbana-Champaign
(2015-2016)

- Title: Situated communication across species: A case study of animals in therapy
- Current Status: Currently enrolled

YiHsin Tai, Speech and Hearing Science, University of Illinois at Urbana-Champaign

- Title: Effect of tinnitus severity on SNR loss in tinnitus patients with normal hearing
- Current Status: Currently enrolled

Qualifying Exam

Sara Schmidt, Graduate Program in Neuroscience, University of Illinois at Urbana-Champaign (2014)

- Title: Resting state functional connectivity studies of tinnitus
- Current Status: Currently enrolled

Charlie Lenell, Speech and Hearing Science, University of Illinois at Urbana-Champaign (2016)

- Title: Vocal training for the senescent voice: Considerations of exercise physiology and sex

- Current Status: Transferred to New York University
- Martha Sherrill, Speech and Hearing Science, University of Illinois at Urbana-Champaign (2016)
- Title: Review of the construct of register as it has been taken up in the field of Communication Sciences and Disorders, and specifically for patients with Aphasia
 - Current Status: Currently enrolled

Dissertation

Mary Christine Kubalanza, Speech and Hearing Science, University of Illinois at Urbana-Champaign (2014-2015)

- Title: A combined spoken communication treatment approach for children with autism spectrum disorder who are minimally verbal
- Current Status: Assistant Professor, California State University, LA

Maysoon Biller, Speech and Hearing Science, University of Illinois at Urbana-Champaign (2015-2017)

- Title: A combined spoken communication treatment approach for children with autism spectrum disorder who are minimally verbal
- Current Status: Instructor, Western Illinois University

Doctor of Audiology Capstone Project

Catherine A. Peters, Speech and Hearing Science, University of Illinois at Urbana-Champaign (2013-2014)

- Title: The effect of frequency specific tone burst stimuli on auditory sensory gating of the P50 evoked potential in a paired-stimulus paradigm
- Current Status: Practicing Audiologist

Jenise Chappell, Speech and Hearing Science, University of Illinois at Urbana-Champaign (2015)

- Title: Dissociating Mechanisms of Tinnitus and Hyperacusis: A Survey
- Current Status: Practicing Audiologist

Jamie Marie Petroelje, Speech and Hearing Science, University of Illinois at Urbana-Champaign (2017)

- Title: Dichotic Listening Tests as a Way to Clinically Address Auditory Complaints Following Traumatic Brain Injury
- Current Status: Currently Enrolled

Sarah Albelaikhi, Speech and Hearing Science, University of Illinois at Urbana-Champaign (2017)

- Title: Tinnitus assessment and management in Saudi Arabia: A survey study of healthcare professionals.
- Current Status: Currently Enrolled

Master's Student: Thesis Committee

Megan McKenna, Speech and Hearing Science, MA student (2012-2013)

- Title: Developmental expectations for child-like sentences.
Current Status: Practicing Speech-Language Pathologist in Illinois

C. Supervision of Undergraduate Students

Research Assistants

(Note: Students listed below were supervised in my lab)

Jennifer Marmmit, Speech and Hearing Science (9/2012-5/2013)

Advisor, James Scholar Project: "Strategic attention in young adults".

Michelle Gutierrez, Speech and Hearing Science (5/2012-5/2013)
 Natalie Gannon, Speech and Hearing Science (8/2012-5/2014)
 Lolitha Golemi, Molecular and Cellular Biology and Mathematics (8/2013-3/2015)
 Stephanie Smolen, Speech and Hearing Science (10/2014-5/2015)
 Margaret Boland, Speech and Hearing Science (10/2014-5/2015)
 Maya Delejewski, Speech and Hearing Science (10/2014-5/2015)
 Fanting Kung, Speech and Hearing Science (10/2014-present)
 Andrew Perpignani, Speech and Hearing Science (10/2014-present)
 Meghan Diamond, Speech and Hearing Science (10/2015-present)
 Stephany Burz, Psychology (5/2016-present)

Interns from the Researchers Initiative Program

(Note: This program pairs students in Global Crossroads, Health Professions, Intersections, and Women in Math, Science, and Engineering Living-Learning Communities at University of Illinois with faculty mentors to work on various aspects of research.)

Syed Ali Ahsen, Molecular and Cellular Biology, (1/2012-4/2012)
 Lukasz Pazdan, Molecular and Cellular Biology (1/2012-5/2014)
 Sopirinye Diri, Molecular Biology and Mathematics (1/2014-4/2014)
 Nicole Hasamear, Chemical Engineering (1/2015-4/2015)
 Kevin Wells, Molecular and Cellular Biology (1/2015-4/2015)
 Stephany Burz, Psychology (1/2016-4/2016)
 Novejot Sandhu, Molecular and Cellular Biology (1/2016-4/2016)
 Julia Rajan, Psychology (1/2017-4/2017)

IV. Service (Professional/ Disciplinary, University, and Public Engagement)

V.

A. Service to Disciplinary and Professional Societies or Associations

Offices Held in Professional Societies

2003-2005	Secretary, Asian India Caucus of the American Speech-Language-Hearing Association
2006-2007	Vice President, Asian India Caucus of the American Speech-Language-Hearing Association
2016-present	Co-Chair, Joint Committee on Interprofessional Relations Between the American Speech-Language-Hearing Association and Division 40: Society for Clinical Neuropsychology of the American Psychological Association

Editorial Consulting

2016	Associate Editor, Journal of Alzheimer's Disease
2016-present	Review Editor, Frontiers in Auditory Cognitive Neuroscience

Journal Reviewer

Ad hoc reviewer for the following journals: Brain and Cognition; Aphasiology; Journal of Communication Disorders; Journal of Speech, Language, and Hearing Research; Neuropsychologia; Brain and Language; Contemporary Issues in Communication Science and Disorders; American Journal of Speech Language Pathology; Perspectives on Gerontology; PlosOne

Review Panels (e.g., for Governmental Agencies, Educational Institutions)

2016	NSF Graduate Research Fellowship Program (GRFP) panel
2016	Canadian Institutes of Health Research (CIHR)

Grant Reviewer

2011-2016 Alzheimer's Association
2013 Economic & Social Research Council, United Kingdom

Conference Reviewer

1998 National Conference on Learning Disability, Bangalore, India
2004 Adult Language Disorder Program committee, ASHA Convention
2007 Reprogramming the Human Brain: Translating Brain Plasticity Research into Clinical Practice, Center for BrainHealth, The University of Texas at Dallas
2012 Gerontological Society of America 65th Annual Scientific Meeting

State/National Committees and Service

2006-2008 Member, Multi-Cultural Issues Board, American Speech-Language-Hearing Association
2012-2015 Mentor, The Student to Empowered Professional Program, American Speech-Language-Hearing Association
2013-2015 Representative, American Speech-Language-Hearing Association representative for the Joint Committee on Interprofessional Relations Between the American Speech-Language-Hearing Association and Division 40 (Clinical Neuropsychology) of the American Psychological Association

Professional Society Membership

1997-present Indian Speech and Hearing Association
2002-present American Speech-Language-Hearing Association
2006-present Cognitive Neuroscience Society
2010-2012 Gerontological Society of America
2011-present International Society to Advance Alzheimer's Research and Treatment

B. University/Campus Service

Departmental Service: Speech and Hearing Science

2011-2013; 2015-2016 Admissions Committee member
2013-2015 Undergraduate Program Committee member
2014-2016 SHS Faculty Search Committee for Neurological Bases of Communication member
2016-present Program Policy Committee member
2016-present Education Policy Committee chair

College of Applied Health Sciences Service

2012-2013 Faculty Search Committee for the Head of SHS member
2012-2013 Crowd Funding Committee member
2014-2016 Grievances Committee member
2015-present Executive Committee member

Campus

2012-present Health Professions Researchers Initiative member
2014 Focal Point Grant, Initiative on Communication and Aging Research (I-CARE) member
2014 Focal Point Grant, iHear - Cognitive Hearing Science @ Illinois member
2016-present Inclusive Illinois Representative
2017- Health Sciences Sub-committee Working group for Illinois OSF Workflow

C. Public Engagement

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|--------------|---|
| 2012 | Presented information about Brain health fitness and strategy-based cognitive training to members of the Minds in Motion Program, Champaign, IL |
| 2012 | Mentored a high school student for 2 weeks (80 hours) in summer. During this period the student was exposed to various research activities including stimulus development for research projects, data tabulation, and pre-processing EEG data |
| 2013-2015 | Participated in Brain Awareness Day |
| 2015-present | Involved in cognitive and communication therapy in nursing home residents |