

## **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**

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

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

2011 - 2017 Adjunct Assistant Professor (0% appointment), School of Behavioral and Brain Sciences, The University of Texas at Dallas, Richardson, TX

2011 - 2017 Assistant Professor, Department of Speech and Hearing Science, University of Illinois Urbana-Champaign, IL

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

2012 - present Faculty Affiliate, Neuroscience Program, University of Illinois Urbana-Champaign, IL

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

2017 - present Associate Professor, Department of Speech and Hearing Science, University of Illinois Urbana-Champaign, IL

2020 - present Member Affiliate, Discovery Partners Institute

#### **C. Other Professional Employment**

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

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

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

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

2005 - 2006 Graduate Teaching Assistant, 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. Schlegel 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 2012-2019 Teachers Ranked as Excellent, University of Illinois Urbana-Champaign

Fall 2013, 2015-2018

Fall 2020-2021	
2019	Training on Optimization of Behavioral and Biobehavioral Interventions, Office of Behavioral and Social Science Research (OBSSR), NIH, Bethesda, MD
2020 – 2021	Distinguished Fellow, Building Pathways for Emerging Leaders at Illinois, University of Illinois Urban-Champaign
2022	AHS Excellence in Graduate Student Mentoring Award

E. Grants Received  
Research Grants

07/2011-07/2013	Staving off Alzheimer’s disease. RGK Foundation, \$250,000. (Role: Co-PI)
01/2012-12/2014	Neural markers of subjective cognitive impairment. Alzheimer’s Association New Investigator Award (NIRG-11-173815), \$100,000 (one year no-cost extension). (Role: PI)
07/2012-06/2014	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. (Role: PI)
09/2013-09/2014	Cognitive training in MCI, The Dallas Foundation, \$45,000. (Role: Co-PI)
08/2015-01/2018	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. (Role: PI)
06/2017-06/2018	Strategic processing ability in mild cognitive impairment. Carle Clinical Research Program Award, \$15,000. (Role: Co-PI)
04/2018-12/2019	Supporting social engagement through technology for older adults with and without MCI. NIA, \$144,203. (Role: Investigator)
1/2018-12/2021	Cognitive and neural alterations in age-associated hearing loss. ASH Foundation, \$25,000. (Role: PI)
04/2019-12/2020	Benefits of social engagement using video Technology for economically disadvantaged older adults, Discovery Partners Institute, \$15,000 (Role: PI)
09/2019-04/2024	ENHANCE: Enhancing Neurocognitive Health, Abilities, Networks, & Community Engagement. NIDILRR, \$4,624,999 (Role: Investigator)
01/2020-04/2022	Enhancing quality of life for older adults with and without MCI through social engagement over video technology, NIA, \$1,868,681 (Role: Investigator and Site Co-PI)
09/2020-08/2021	Identifying changing support needs of aging caregivers of veterans with traumatic brain injury, Chez Veterans Center, \$15,000 (Role: Co-PI)
01/2021-01/2022	Development of a virtual mindfulness-based intervention for caregivers of veterans with neurocognitive disorders and/or post-traumatic stress disorder (VetCareMind), Center for Social and Behavioral Science (CSBS) Small Grant program, \$25,000 (Role: Investigator)
07/2021-12/2022	Video technology-based social engagement intervention for family care partners of persons with dementia, RRF Foundation on Aging, \$144,258 (Role: PI)
09/2021- 08/2022	Integrating voice-activation technology with a social engagement platform for older adults with and without mild cognitive impairment in assisted living, NIA, \$449,463 (role: PI)

Student Mentoring Awards

07/2017-08/2018	ASHA Students Preparing for Academic-Research Careers (SPARC) Award, \$1000 (Mentee: Fanting Kung; Role: Primary Mentor)
08/2018-07/2019	START: Student Aging Researchers Training, development grant awarded by the Office of Undergraduate Research, UIUC, \$9,000. (Role: one of the 10 Co-PIs)

05/2020-08/2020	Community Academic Scholar, Center of Social and Behavioral Sciences and the Interdisciplinary Health Sciences Institute, UIUC, \$3,500 (Mentee: Sarah Jones; Role: Primary Mentor)
07/2021-08/2022	ASHA Students Preparing for Academic-Research Careers (SPARC) Award, \$1000 (Mentee: Sarah Jones; Role: Primary Mentor)
05/2021-08/2021	Community Academic Scholar, Center of Social and Behavioral Sciences and the Interdisciplinary Health Sciences Institute, UIUC, \$3,500 (Mentee: Yako Sharbel; Role: Primary Mentor)

## II. Publications and Creative Works

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

1. Doctoral Thesis Title  
**Anand, R.** (2008). Differences between gist and detailed processing (Doctoral dissertation). Pro-Quest Dissertations and Theses database. (UMI No: 3305835).
2. Chapters in Books
  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. ISBN 9780128093245
  4. Mudar, R. A., & Chiang, H. S. (2017). Categorization and aging. In H. Cohen, & C. Lefebvre (Eds.), *Handbook of Categorization in Cognitive Science*. San Diego, CA: Elsevier. ISBN: 978-0-08-101107-2
5. Articles in Journals *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.**, Zoccoli, 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. (2017). 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., & (2017). Theta and alpha alterations in amnesic mild cognitive impairment in semantic Go/NoGo tasks. *Frontiers in Aging Neuroscience*, 9, 160.
24. \*Llano, D. A., Bundela, A., **Mudar, R. A.**, & Devanarayan, V. (2017). Multivariate predictive modeling approach reveals a novel CSF peptide signature for both Alzheimer's Disease state classification and for predicting future disease progression. *PlosOne*.
25. \*Chiang, H.S., Spence, J. S., Kraut, A. A., & **Mudar, R. A.** (2018). Age effects on event-related potentials in individuals with amnesic Mild Cognitive Impairment during semantic categorization Go/NoGo tasks. *Neuroscience Letter*, 19-21.
26. \*Swords, G. M., Nguyen, L. T., **Mudar, R. A.**, & Llano, D. A. (2018). Auditory system dysfunction in Alzheimer disease and its prodromal states: A review. *Ageing Research Reviews*. 44, 49-59.
27. Swords, G. M., Nguyen, L. T., **Mudar, R. A.**, & Llano, D. A. (2018). Incorporating audiological measurements into Alzheimer's Diagnosis. *The Hearing Journal*, 71, 6. doi: 10.1097/01.HJ.0000538926.57926.

28. \*Motes, M., Spence, J. S., Brier, M. R., Chiang, H. S., DeLaRosa, B. L., Justin, E., Maguire, M. J., **Mudar, R. A.**, Tillman, G. D., Kraut, M. A., & Hart, H. (2018). Conjoint differences in inhibitory control and processing speed in childhood to older adult cohorts: Discriminant functions from a Go/No-Go Task. *Psychology & Aging, 33*, 1070-1078.
29. \***Mudar, R. A.**, Nguyen, L. T., Eroh, J., Chiang, H., Rackley, A., & Chapman, S. B. (2019). Event-related neural oscillation changes following reasoning training in individuals with Mild Cognitive Impairment. *Brain Research, 1704*, 229-240.
30. \*Nguyen, L.T., Marini, F., Zacharczuk, L., Llano, D.A., & **Mudar, R.A.** (2019). Theta and alpha band oscillations during value-directed strategic processing. *Behavioural Brain Research*. <https://doi.org/10.1016/j.bbr.2019.03.052>
31. \*Das, N., Spence, J. S., Aslan, S., Vanneste, S., **Mudar, R.**, Rackley, A., Quiceno, M., Chapman, S. B. (2019). Cognitive training and transcranial direct current stimulation in mild cognitive impairment: A randomized pilot trial. *Frontiers Neuroscience*.
32. \*Mashima, P., Waldron-Perrine, B., Seagly, K., Milman, L., Ashman, T., **Mudar, R. A.** & Paul, D. (2019). Looking beyond test results: Interprofessional collaborative management of persistent mild traumatic brain injury symptoms. *Topic in Language Disorders, 39*, 293-312.
33. \*Palac, D., Bullard, T., Cohen, J. D., Nguyen, L. T., **Mudar, R. A.**, & Mullen, S. P. (2019). Effects of traditional vs. iPad-enhanced aerobic exercise on wayfinding efficacy and spatial cognition: A pilot randomized controlled trial. *International Journal of Environmental Research and Public Health, 16*(18), 3495; <https://doi.org/10.3390/ijerph16183495>
34. \*Nie, Q., Nguyen, L. T., Myers, D., Gibson, A., Keressens, C., **Mudar, R. A.**, & Rogers, W. A. (2020). Design guidance for video chat system to support social engagement for older adults with and without Mild Cognitive Impairment. *Gerontechnology*.
35. \*Nguyen, L. T., Marini, F., Shende, S. A., Llano, D. A., & **Mudar, R. A.** (2020). Investigating EEG theta and alpha oscillations as measures of value-directed strategic processing in cognitively normal younger and older adults. *Behavioural Brain Research, 391*, <https://doi.org/10.1016/j.bbr.2020.112702>.
36. \*+Shende, S. A., Nguyen, L. T., Lydon, E. A., Husain, F. T., & **Mudar, R. A.** (2021). Cognitive flexibility and inhibition in individuals with age-related hearing loss. *Geriatrics, 6*(1). <https://doi.org/10.3390/geriatrics6010022>.
37. \*Lydon, E. A., Nguyen, L. T., Shende, S. A., Chiang, H. S., Spence, J. S., & **Mudar, R. A.** (2021). EEG theta and alpha oscillations in early versus late mild cognitive impairment during a semantic Go/NoGo task. *Behavioural Brain Research, 416*, 113539. Advance online publication. <https://doi.org/10.1016/j.bbr.2021.113539>.
38. \*Waldron-Perrine, B., **Mudar, R. A.**, Mashima, P., Seagly, K., Sohlberg, M., Bechtold, K. T., et al. (2022). Interprofessional collaboration and communication to facilitate implementation of cognitive rehabilitation in persons with brain injury. *Journal of Interprofessional Care, 10.1080/13561820.2021.1971956*
39. \*Lydon, E. A., Nguyen, L. T., Nie, Q., Rogers, W. A., & **Mudar, R. A.** (2022). An integrative framework to guide interventions and technology design for social engagement in older adults with mild cognitive impairment. *Frontiers in Public Health, https://doi.org/10.3389/fpubh.2021.750340*
40. \* Kwok, S. S., Nguyen, X. T., Wu, D., Mudar, R. A., & Llano, D. (2022). Pure tone audiometry and hearing loss in Alzheimer's disease: A metaanalysis. *Frontiers in Psychology, https://doi.org/10.3389/fpsyg.2021.788045*
41. \*Shende, S.A., Lydon, E. A., Husain, F. T., & **Mudar, R. A.** (in press). Inhibitory control and value-directed strategic attention in mild age-related hearing loss. *Aging and Health Research, https://doi.org/10.1016/j.ahr.2022.100074*

Abstracts 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, A., **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.
7. Shende, S.A., Nguyen, L.T., Burz, S., Rackley, A., Chapman, S.B., & **Mudar, R.A.** (2018). Relationship between use of inherent memory strategies and memory performance in amnesic mild cognitive impairment. *Alzheimer's & Dementia: The Journal of the Alzheimer's Association*, 14(7), 1198-1199.
8. Nguyen, L.T., Shende, S.A., Rackley, A., Chapman, S.B. & **Mudar, R.A.** (2018). Strategy-based cognitive training effects on event-related neural oscillations in amnesic mild cognitive impairment. *Alzheimer's & Dementia: The Journal of the Alzheimer's Association*, 14(7), 1067.
9. Nguyen, L.T., Nie, Q., Myers, D., Gibson, A., Kerssens, C., **Mudar, R.A.**, & Rogers, W.A. (2018). Social engagement through video chat for older individuals with and without cognitive impairment. *Innovation in Aging*, 2(suppl\_1), 998.
10. Nguyen, L. T., Nie, Q., Lydon, E., Myers, D., Gibson, A., Kerssens, C., **Mudar, R. A.**, & Rogers, W. A. (2019). Exploring videochat for social engagement in older adults with and without cognitive impairment. *Innovation in Aging*, 3(Suppl 1), S932. doi:[10.1093/geroni/igz038.3391](https://doi.org/10.1093/geroni/igz038.3391).
11. Rogers, W., Nie, Q., Nguyen, L., **Mudar, R.**, Myers, D., Gibson, A., & Kerssens, C. (2019). Social engagement through video chat for older individuals with and without cognitive impairment. *Innovation in Aging*, 3(Suppl 1), S15. doi:[10.1093/geroni/igz038.054](https://doi.org/10.1093/geroni/igz038.054)
12. Nguyen, L.T., Shende, S., Llano, D., & **Mudar, R.** (2020). EEG measures of value-directed strategic processing in older adults with and without mild cognitive impairment. *Innovation in Aging*, 4 (Supplement\_1), 292–293. <https://doi.org/10.1093/geroni/igaa057.937>
13. Nie, Q., Nguyen, L.T., Lydon, E., Myers, D., Gibson, A., Kerssens, C., **Mudar, R. A.**, & Rogers, W. A. (2020). Designing video chat for social engagement in older adults with and without mild cognitive impairment. *Gerontechnology*, 19, 1-1.
14. Lydon, E., Harris, M., **Mudar, R.**, & Rogers, W. (2020). Understanding everyday needs of older adults with cognitive impairments: Insights from subject matter experts. *Archives of Physical Medicine and Rehabilitation*, 101(11), e10. <https://doi.org/10.1016/j.apmr.2020.09.027>
15. Rogers, W.A., Mudar, R., Harris, M., Lydon, E., Ramadhani, W., Czaja, S., Boot, W., & Charness, C. (2021). Everyday Needs assessment for cognitive tasks: challenges for persons with cognitive impairment, *Innovation in Aging*, 5 (Supplement\_1), 194. <https://doi.org/10.1093/geroni/igab046.734>
16. Shende, S., Lothary, A., King, J., Jones, S., Mudar, R., Myers, D., & Rogers, W. (2021). Content development for a virtual social engagement intervention. *Innovation in Aging*, 5 (Supplement\_1) 426–427. <https://doi.org/10.1093/geroni/igab046.1647>
17. Lydon, E., Nguyen, N., Shende, S., Chiang, H., & Mudar, R. (2021). Early Versus Late Mild Cognitive Impairment: Neural Event-Related Oscillations During a Go/No Go Task, *Innovation*

in Aging. *Innovation in Aging*. 5 (Supplement\_1), 115.  
<https://doi.org/10.1093/geroni/igab046.437>.

18. Nguyen, L., Lydon, E., & Mudar, R. (2021). Perceptual Versus Conceptual Value-Directed Strategic Processing in Younger and Older Adults, *Innovation in Aging*. 5 (Supplement\_1), 714–715. <https://doi.org/10.1093/geroni/igab046.2650>
19. Shende, S., Nguyen, L., Rochford, G., & Mudar, R. (2021). Inhibitory Control in Age-Related Hearing Loss. *Innovation in Aging*. 5 (Supplement\_1), 480.  
<https://doi.org/10.1093/geroni/igab046.1849>

Refereed Conference 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. (2014, July). 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.** (2014, March). Comparison of traditional and tablet-delivered Trails A & B in three samples. Poster presentation at the Cognitive Neuroscience Society A, San Francisco, CA.
  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.** (2016, November). 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.
  38. Husain, F., Nguyen, L.T., Tai, Y., Shende, S.A., & **Mudar, R.A.** *Impact of Hearing Loss on Brain and Cognition in Older Adults.* (2017, June). Oral presentation at the 4<sup>th</sup> International Conference on Cognitive Hearing Science for Communication, Linköping, Sweden.
  39. Nguyen, L.T., Shende, S.A., Tai, Y., Husain, F., & **Mudar, R.A.** *Cognitive and Neural Alterations in Age-Associated Hearing Loss.* (2017, September). Poster presentation at the 12th Annual Eleanor M. Saffran Conference on Cognitive Neuroscience and Rehabilitation of Communication Disorders, Philadelphia, PA, September 2017.
  40. Mashima, P., Milman, L., Ashman, T., **Mudar, R. A.**, Waldron-Perrine, B., & Paul, D. (2017, November). *Looking Beyond Test Results: Interprofessional Collaborative Assessment of Persistent mTBI Symptoms.* Seminar presented at the annual convention of the American Speech-Language-Hearing Association, Los Angeles, CA.
  41. Kung, F., Rispoli, M., & **Mudar, R.A.** (2018, February) *Language Output in Individuals with Alzheimer's Disease.* Poster presented at the Illinois Speech-Language-Hearing Association 58th Annual Convention, Rosemont, IL.
  42. Nguyen, L.T. & **Mudar, R.A.** *Effects of Strategy-Based Cognitive Training in Mild Cognitive Impairment.* (2018, February). Oral presentation at the Illinois Speech-Language-Hearing Association 58<sup>th</sup> Annual Convention, Rosemont, IL.
  43. Nguyen, L.T., Shende, S.A., Rackley, A., Chapman, S.B., & **Mudar, R.A.** (2018, July). *Strategy-Based Cognitive Training Effects on Event-Related Neural Oscillations in Amnesic Mild Cognitive Impairment.* Poster presented at the Alzheimer's Association International Conference, Chicago, IL.
  44. Shende, S.A., Nguyen, L.T., Burz, S., Rackley, A., Chapman, S.B., & **Mudar, R.A.** (2018, July). *Relationship Between Use of Inherent Memory Strategies and Memory Performance in Amnesic Mild*

- Cognitive Impairment*. Poster presented by S.S. at the Alzheimer's Association International Conference, Chicago, IL.
45. Nguyen, L.T., Nie, Q., Myers, D., Gibson, A., Kerssens, C., **Mudar, R.A.**, & Rogers, W.A. (2018, November). *Social Engagement Through Video Chat for Older Individuals With and Without Cognitive Impairment*. Poster presented by RM & WR at The Gerontological Society of America Annual Scientific Meeting, Boston, MA.
  46. Seagly, K., Milman, L., Mashima, P., Ashman, T., Waldron-Perrine, B., Paul, D., & **Mudar, R. A.** (2018, November). *Looking Beyond Test Results: Interprofessional Collaborative Assessment of Persistent mTBI Symptoms*. Seminar presented at the annual convention of the American Speech-Language-Hearing Association, Boston, MA.
  47. Lydon, E.A., Nguyen, L.T., & **Mudar, R.A.** (2019, September). *Strategy-Based Cognitive Training Effects on Event-Related Spectral Perturbations in Early versus Late Mild Cognitive Impairment*. Poster presentation at Eleanor M. Saffran Cognitive Neuroscience Conference, Temple University, Philadelphia, PA.
  48. Shende, S. A., Shahsavarani, S., Tai, Y., **Mudar, R. A.**, & Husain, F.T. (2019, October). *Voxel-Based Morphometry in Age-Associated Hearing Loss*. Poster presentation at Society for Neuroscience Conference, Chicago, IL.
  49. Nguyen, L.T., Shende, S.A., Marini, F., Llano, D.A., & **Mudar, R.A.** (2019, October). *Theta, alpha, and beta band oscillations related to value-directed strategic processing in cognitively normal younger and older adults*. Poster presented at the Society for Neuroscience 49th annual meeting, Chicago, IL.
  50. Nguyen, L. T., Nie, Q., Lydon, E., Myers, D., Gibson, A., Kerssens, C., **Mudar, R. A.**, & Rogers, W. A. (2019, November). *Exploring videochat for social engagement in in older adults with and without cognitive impairment*. Poster presented at The Gerontological Society of America Annual Scientific Meeting, Austin, TX.
  51. Rogers, W., Nie, Q., Nguyen, L., **Mudar, R.**, Myers, D., Gibson, A., & Kerssens, C. (2019, November). *Social engagement through video chat for older individuals with and without cognitive impairment*. Talk presented at The Gerontological Society of America Annual Scientific Meeting, Austin, TX.
  52. Milman, L., Seagly, K., Waldron-Perrin, B., **Mudar, R.**, Mashima, P., Ashman, T., & Paul, D. (2019, November). *Interprofessional Collaboration: Overcoming Barriers to Successful Reintegration for Working-Age Adults with Acquired Brain Injury*. Seminar presented at the annual convention of the American Speech-Language-Hearing Association, Orlando, FL.
  53. Nie, Q., Nguyen, L.T., Lydon, E., Myers, D., Gibson, A., Kerssens, C., **Mudar, R.A.**, & Rogers, W.A. (2020, October). *Designing Video Chat for Social Engagement in Older Adults With and Without Mild Cognitive Impairment*. International Society for Gerontechnology 12th World Conference of Gerontechnology, Virtual.
  54. Lydon, E., Harris, M., **Mudar, R.**, & Rogers, W. (2020, October). *Understanding Everyday Needs of Older Adults with Cognitive Impairments: Insights from Subject Matter Experts*. Presentation at the American Congress of Rehabilitation Medicine Annual Conference, Virtual.
  55. Nguyen, L. T., Shende, S. A., Llano, D. A., & **Mudar, R. A.** (2020, November). *EEG Measures Of Value-Directed Strategic Processing In Older Adults With And Without Mild Cognitive Impairment*. Poster presented at Gerontological Society of America Annual Scientific Meeting, Online.
  56. Shende, S.A., Nguyen, L.T., Tai, Y., Husain, F.T., & **Mudar, R.A.** (2020, November). 10778. *Cognitive Control Challenges in Age-Associated Hearing Loss*. Proposal accepted at the Annual Convention of the American Speech-Language-Hearing Association, San Diego, CA (Convention canceled).
  57. Lothary, A., Lydon, E., Harris, M., **Mudar, R.**, & Rogers, W.A. (2021, April). *Virtual needs assessment for older adults with cognitive impairment*. HFES International Symposium on Human Factors and Ergonomics in Health Care, virtual.

58. Shende, S.A., Nguyen, L.T., Rochford, G.E., & **Mudar, R.A.** (2021, November). *Inhibitory Control in Age-Related Hearing Loss*. Oral presentation at the Gerontological Society of America Meeting, Online.
59. Shende, S.A., Lothary, A.F., King, J., Jones, S.E., **Mudar, R.A.**, Myers, D., Rogers, W.A. (2021, November). *Content Development for a Virtual Social Engagement Intervention via Video-Technology*. Oral presentation at the Gerontological Society of America Meeting, Online.
60. Nguyen, L.T., Lydon, E.A., & **Mudar, R.A.** (2021, November). *Perceptual Versus Conceptual Value-Directed Strategic Processing in Younger and Older Adults*. Poster presented at The Gerontological Society of America Annual Scientific Meeting, Online.
61. Lydon, E.A., Nguyen, L.T., Shende, S.A., Chiang, H.S., & **Mudar, R.A.** (2021, November). *Early versus Late Mild Cognitive Impairment: Neural Event-related Oscillations During a Go/NoGo Task*. Oral presentation at The Gerontological Society of America Annual Scientific Meeting, Online.

### Invited Talks

April 2006	Mild cognitive impairment: A clinical perspective. DFW Aphasiology Association, Dallas, TX.
September 2007	Differences between gist and detail processing. FLASH series, Callier Center, The University of Texas at Dallas,
October 2010	Aging and brain health. Applied Gerontology Division, College of Public Affairs and Community Service, University of North Texas, Denton, TX.
April 2011	Semantic abstraction in mild cognitive impairment. Alzheimer's Disease Center, The University of Texas Southwestern Medical Center, Dallas, TX.
October 2011	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 Urbana-Champaign, Champaign, IL
November 2011	Semantic Abstraction and Aging. Speech and Hearing Science Proseminar, University of Illinois Urbana-Champaign, Champaign, IL
July 2013	Semantic processing in mild cognitive impairment. Brain Health Frontiers Lunch Lecture Series, Center for BrainHealth, Dallas, TX.
September 2013	Mild cognitive impairment: Assessment and training. Midwestern Geriatric Symposium, Urbana, IL.
April 2014	Mild cognitive impairment. Wellness and Aging Certificate Program: Comprehensive Education for Geriatric-Focused Professionals. Continuing Education Institute of Illinois, Champaign, IL
October 2014	Benefits of cognitive training in individuals with mild cognitive impairment. 2nd Annual World Congress of Geriatrics and Gerontology, Taiyuan, China.
April 2015	June Carter Cash is dancing for us": Perspectives from an intensive student training program involving patients with dementia. Proseminar series, University of Illinois Urbana-Champaign, Champaign, IL.
April 2016	Studying cognitive wellness in older adults using electroencephalography. The Chittenden Symposium, University of Illinois at Urbana-Champaign, Champaign, IL
April 2017	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 Urbana-Champaign, Champaign, IL
September 2017	Event-related EEG alterations in older adults at risk of dementia. Frontiers Lunch Lectures, Center for BrainHealth, University of Texas at Dallas, Dallas, TX

March 2019	Event-related EEGs in Individuals with Amnesic Mild Cognitive Impairment. Brown Bag lecture, College of Medicine, University of Illinois Urbana-Champaign, Champaign, IL
October 2020	Memory Slips: What's Normal, What's Not. The Illinois NeuroBehavioral Assessment Laboratory (INBAL) lecture, Osher Lifelong Learning Institute at Illinois.
November 2021	Understanding Impacts of Aging and Age-related Conditions on Cognition: Mechanism to Therapy". Faculty lecture on collaborative research. All India Institute of Speech and Hearing, Mysuru, India.
February 2022	Supporting Brain Health in Older Adults through Cognitive and Social Engagement Interventions. Plenary talk, 53rd Annual Convention of the Indian Speech and Hearing Association (ISHACON- 53), Online.

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

University of Illinois at Urbana-Champaign

SHS 271, Communication and Aging

Fall 2011; 2012; 2013;  
2014; 2015; 2016; 2020 Spring  
2018; 2019

SHS 170, Introduction to Communication Systems and Disorders

Fall 2015; 2016; 2017; 2018;  
Spring 2019

SHS 533, Advanced Language Diagnostics

Fall 2012; 2013; 2014

SHS 593, Dementia and Associated Communication Disorders

Spring 2012; 2013; 2014;  
2015; 2016; 2017; 2018

SHS 593/535 Cognitive Communication Disorders

Fall 2018; 2020; 2021

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 Committees: Chair

Lydia Nguyen, Graduate Program in Neuroscience, University of Illinois at Urbana-Champaign

- Completion Date: Summer 2020
- Current Status: Lead Researcher, IN2L

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

Elizabeth Lydon, Speech and Hearing Science, University of Illinois at Urbana-Champaign (August 2018-Present)

Doctoral Student Committees-Early Research Project

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

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

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

YiHsin Tai, Speech and Hearing Science, University of Illinois at Urbana-Champaign (2016-2017)

- Title: Effect of tinnitus severity on SNR loss in tinnitus patients with normal hearing

Gibbeum Kim, Speech and Hearing Science, University of Illinois at Urbana-Champaign (2021-

- Title: Changes in gray matter in tinnitus and hearing loss

Doctoral Student Committees-Qualifying Exam

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

- Title: Resting state functional connectivity studies of tinnitus

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

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

YiHsin Tai, Speech and Hearing Science, University of Illinois at Urbana-Champaign (2018)

- Title: The role of cognitive control in tinnitus and its relation to speech-in-noise performance

Rafay Khan, Neuroscience Program, University of Illinois at Urbana-Champaign (2019)

- Title: Cognitive deficits associated with tinnitus and their neural correlates

Doctoral Student Committees-Dissertation

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

- Title: An Interactive Approach to Vocabulary Intervention for Speech-Language Pathologists in the Classroom: Multiple Language Levels and Modalities
- 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: Assistant Professor, University of Central Arkansas

Christina R. Bronson-Lowe, Speech and Hearing Science, University of Illinois at Urbana-Champaign (2017-2018)

- Title: Structure of variability as a predictor of oral motor learning in healthy younger and older adults

Martha Sherrill, Speech and Hearing Science, University of Illinois at Urbana-Champaign (2017-2018)

- Title: “When do I get to see the dog?”. The communication environment during animal assisted speech therapy sessions for adults with acquired cognitive-communicative disorders.
- Current Status: Assistant Professor, Southeastern Louisiana University

YiHsin Tai, Speech and Hearing Science, University of Illinois at Urbana Champaign (2019-2020)

- Title: Investigating the relationship between cognitive control and speech-in-noise recognition in tinnitus from perceptual, neuroanatomical, and electrophysiological aspects.
- Current Status: Assistant Professor, Ball State University

Kelly Hewes, Neuroscience Program, University of Illinois at Urbana Champaign (2019-2020)

- Title: Peripheral Biomarkers and Brain Behavior, Structure, and Function

Rafay Khan, Neuroscience Program, University of Illinois Urbana-Champaign (2021-)

- Title: Unraveling Neural Mechanisms of Tinnitus Generation and Persistence: A Multimodal Imaging Investigation

Chase Adams, Linguistics, University of Illinois Urbana, Champaign (2021-)

- Title: Acoustic-phonetic featurization for the characterization and classification of Alzheimer’s disease from spontaneous speech

Doctor of Audiology Capstone Project Committees

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

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

- Title: Dissociating mechanisms of tinnitus and hyperacusis: A survey

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

Sarah Albelakhi, 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.

Emily Buenting, Speech and Hearing Science, University of Illinois at Urbana-Champaign (2019)

- Title: Level Specific Chiro Effect on the Auditory Brainstem Response

Monique Dang, Speech and Hearing Science, University of Illinois at Urbana Champaign (2020-21)

- Title: Investigation of tinnitus self-reported questionnaires: associations, sub-scales, and clinical utility from a large-scale research database.

Peter Shireman, Speech and Hearing Science, University of Illinois Urbana-Champaign

- Title: Hearing Aids & Dementia Prevention: The Audiologist’s Role.

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)  
Andrew Perpignani, Speech and Hearing Science (10/2014-2017)  
Meghan Diamond, Speech and Hearing Science (10/2015-2017)  
Fanting Kung, Speech and Hearing Science (10/2014-5/2018)  
Stephany Burz, Psychology (5/2016-5/2018)  
Lauren Kaiser, Speech and Hearing (8/2017-5/2018)  
Adam McGraw, Speech and Hearing Science (1/2018-2019)  
Andrea Paoletta, Speech and Hearing (8/2017-2019)  
Jessica Philipp, Speech and Hearing Science (1/2019-5/2020)  
Claire Inskeep, Speech and Hearing Science (9/2019-5/2020)  
Andrew Ding, Bioengineering (10/2019-3/2020)  
Grace Rockford, Speech and Hearing Science (1/2019-5/2021)  
Vanessa Romero (START Intern), Speech and Hearing (10/2020-5/2021)  
Sarah Jones, Speech and Hearing Science (9/2019-)  
Kelly Trevillian, Speech and Hearing (1/2020-present)  
Sharbel Yako, Molecular and Cellular Biology (1/2020-)  
Holly Panfil, Speech and Hearing (10/2020-)  
Chloe Maghinang, Speech and Hearing (10/2020-)  
Valerie Chen (SPARK Intern), IHLT (9/2021-)  
Alexandra Trekas, Speech and Hearing (9/2021-)  
Nithya Anand, Molecular and Cellular Biology (9/2021-)  
Natalia Rzepa, Speech and Hearing Science (9/2021-)  
Melinda Jara, Speech and Hearing Science (9/2021-)

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)**

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
2016-2019	Co-Chair, Joint Committee on Interprofessional Relations Between the American Psychological Association (APA) and the American Speech-Language-Hearing Association (ASHA)

Editorial Consulting

2016	Associate Editor, Journal of Alzheimer's Disease
2016-	Review Editor, Frontiers in Auditory Cognitive Neuroscience
2021-	Editorial Board, Journal of Integrative Neuroscience
2021-	Special Issue Editor, Geriatrics

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; Human Brain Mapping; Biological Psychology; Neuropsychiatric Disease and Treatment; Frontiers

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

2016- 2020	NSF Grant Review panel
2016; 2022	Canadian Institutes of Health Research (CIHR)
2018	NIH Grant Review panel

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, 2020, 2021	Gerontological Society of America Annual Scientific Meeting

State/National Committees and Service

2006-2008	Member, Multi-Cultural Issues Board, American Speech-Language-Hearing Association
2012-2016	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



Indian Speech and Hearing Association  
 American Speech-Language-Hearing Association  
 Gerontological Society of America  
 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 for Neurological Bases of Communication Committee member
2016-2017	Program Policy Committee member
2016-2018	Education Policy Committee chair
2017-	Promotion and Tenure Committee member
2018	SHS Clinical Assistant Professor Search chair
2018-2019; 2020-	Faculty Advisory Committee member
2020-	Director of Graduate Studies
2020-	Admissions Committee Ex-officio
2020-	Program Policy Committee Ex-officio
2020-	Education Policy Committee Ex-officio
2021	SHS Faculty Search for Assistant Professor in Neurogenic Communication Disorders Committee member

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
2015-2017; 2018-2019	AHS Executive Committee member
2019	Head 5 <sup>th</sup> Year Review Committee member
2020-	CHAD Senior Faculty Committee member
2021-	CHART Steering Committee member
2021-	AHS Executive Committee member
2021-	Excellence Hire in Health Technology, Vice-chair

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
2016-2017	Inclusive Illinois Representative
2017	University of Illinois and OSF Working Group member
2018-2021	Student Aging Researchers Training
2018-2019	Senate Committee on Library member
2021-	Student Mental Health and Wellness Subcommittee