

Curriculum Vitae

Raksha Anand Mudar

Department of Speech and Hearing Science
University of Illinois at Urbana-Champaign
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Champaign, IL 61820
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Education

Ph.D., Communication Sciences and Disorders 2002-2008
School of Behavioral and Brain Sciences
The University of Texas at Dallas
Advisor: Sandra B. Chapman

Graduate Certification in Gerontology 2001-2002
Institute on Aging
Portland State University

M.S., Speech Language Pathology and Audiology 1994-1996
All India Institute of Speech and Hearing
University of Mysore

B.S., Speech Language Pathology and Audiology 1991-1994
All India Institute of Speech and Hearing,
University of Mysore

Research Interests

To understand the effects of normal aging, Mild Cognitive Impairment, Alzheimer's disease, frontotemporal dementia, and other dementias on higher order semantic functions.

Licensure

The American Speech-Language-Hearing Association (ASHA) certification in Speech-language pathology

Positions

Research Experience

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

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

Research Assistant Professor, Center for BrainHealth The University of Texas at Dallas Oct 2010 - present

Post-doctoral research fellow, Center for BrainHealth
The University of Texas at Dallas
Advisor: John Hart Jr. Sept 2008 - Sept 2010

Research Assistant, Communications Sciences and Disorders
School of Behavioral and Brain Sciences
The University of Texas at Dallas 2002 - April 2008

Teaching Experience

Co-instructor, Communications Sciences and Disorders
The University of Texas at Dallas Spring 2005; Spring 2006

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

Clinical Experience

Clinical Fellow, Speech-language pathology
Portland VA Medical Center, Portland, Oregon June 2001 - April 2002

Senior Speech Pathologist
Dr. S. R. Chandrashekar Institute of Speech and Hearing,
Bangalore University, Bangalore, India Sept 1997 - Dec 2000

Speech Language Pathologist
National Institute of Mental Health and Neuroscience, Bangalore, India Jan 1997 - Aug 1997

Grants and Scholarships

Alzheimer's Association New Investigator Award
"Neural Markers of Subjective Cognitive Impairment" (PI, \$100,000) Aug 2011 - Aug 2013

RGK Foundation
"Staving Off Alzheimer's Disease" (Co-PI, \$250,000) July 2011 – July 2013

William C. Jackson, Jr. Endowment Scholarship (\$1000) 2007

Student Travel Grant, Behavioral and Brain Sciences (\$500) 2004; 2005; 2006
The University of Texas at Dallas

Myrna D Schlegal A.W.A.R.E. Scholarship (\$1500) 2003
Alzheimer's Association Greater Dallas Chapter

Fellowships and Awards

Summer Institute on Aging Research, National Institute on Aging 2009

UTD Alumni Association Ring Award for Outstanding Student 2007

Sheila Vohra Award for best paper in Learning Disability 1999
XXXI National Conference of Indian Speech and Hearing Association
Chandigarh, India

University Grants Commission Research Fellowship 1996

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

Committees

Multi Cultural Issues Board member, 2006-2008
The American Speech-Language-Hearing Association (ASHA)

Scientific review committee member 2007
Reprogramming the Human Brain-Translating Brain Plasticity Research into Clinical Practice

Vice President, Asian India Caucus of ASHA 2006-2007

Secretary, Asian India Caucus of ASHA 2003-2005

Program committee member, Adult language disorders 2004
ASHA Convention

Scientific review committee member 1998
National Conference on Learning Disability, Bangalore, India

Society Memberships

Indian Speech and Hearing Association
American Speech Language and Hearing Association
Cognitive Neuroscience Society
Gerontological Society of America

Publications

Anand, R., Chapman, S. B., Rackley, A., & Zientz, J. (2011). Brain health fitness: Beyond retirement. *Educational Gerontology, 37*, 450-465.

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*, 961-968.

Anand, R., Hart, J., Moore, P., S., & Chapman, S. B. (2009). Frontotemporal Lobar Degeneration: Characterizing Semantic Binding and Abstracted Meaning Abilities. *Perspectives on Neuropsychology and Neurogenic Speech and Language Disorders 19*, 117-125

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*, 286-301.

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, 865-880.

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, 62-67.

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, 223-233.

Wong, S. B. C., Chapman, S. B., Cook, L. G., **Anand, R.**, Gamino, J. F., & Devous, M. D., Sr. (2006). A SPECT study of language and brain reorganization three years after pediatric brain injury. *Progress in Brain Research*, 157, 173-185.

Anand, R., Chapman, S. B., Zientz, J. & Toussaint, K. (2005). Mild cognitive impairment. A clinical perspective. *Perspectives on Gerontology*, 10, 10-14.

Book Chapter

Chapman, S.B., Gamino, J.G., & **Mudar, R. A.** (in press). Strategic Memory and Reasoning in Teens: Implications for Cognitive. In V. Reyna (ed) *The Adolescent Brain: Learning, Reasoning, and Decision Making*. American Psychological Association: New York

Published Abstracts

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, 155.

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, 116.

Articles in Preparation

Mudar, R. A., Motes, M., Maguire, M. J., Chapman, S. B., & Hart, J. (in prep). Neural basis of gist and detail processing.

Mudar, R. A., Maguire, M. J., Chapman, S. B., & Hart, J. (in prep). Electrophysiological correlates of gist and detail processing in young and old.

Abstracts and Conference Presentations

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. An electrophysiological marker of an object abstraction deficit in Mild Cognitive Impairment. Society for Psychological Research, Boston, September, 2011.

Anand, R., Chiang, H., Kraut, M., Bartz, E., Maguire, M., & Hart, J. Effects of semantics on inhibitory processes in aging. *Cognitive Neuroscience Society Annual Meeting*, San Francisco, April, 2011.

- Anand, R.**, Chapman, S. B., Rackley, A., Keebler, M., Zientz, J., & Hart, J. Gist-based reasoning training in cognitively normal seniors. *Gerontological Society of America*, New Orleans, November 2010.
- Keebler, K., Bartz, E. K., **Anand, R.**, Gardner, C., Lu, H., Uh, J., Elliott, A., et al. Cognitive changes after brain training or physical training in cognitively normal seniors. *Society for Neuroscience*, San Francisco, November, 2010.
- Bartz, E. K., Chapman, S. B., Keebler, M., Lu, H., Gardner, G., **Anand, R.**, et al. Brain changes after physical exercise in healthy seniors. *Society for Neuroscience*, San Francisco, November, 2010.
- Anand, R.** & Gamino F. J. Reasoning and the adolescent brain from behavior to imaging, Reprogramming the human brain. *Reprogramming the Human Brain. Brain Plasticity and the Reasoning Mind Symposium*, Dallas, TX, April 2010.
- Chapman, S. B. & **Anand, R.** Maximizing Frontal Lobe Function: The last to develop and the First to Go. *Texas Speech and Hearing Association*, 54th Annual Convention and Exhibition, Dallas, TX, April 2010
- Anand, R.**, Motes, M. A., Maguire, M. J., Moore, P. S., Chapman, S. B., & Hart, J. Neural basis of abstracted meaning. *Neurobiology of Language*, Chicago, IL, October, 2009.
- Maguire, M., White, J. J., Brier, M., Miao, M., **Anand, R.**, Reagor, M. K., & Dove, G. O. An event related potentials study of novel verb processing in young children. *Society for Research in Child Development (SRCD) 2009 Biennial Meeting*, Denver, 2009.
- Anand, R.**, Maguire, M. J., Chapman, S. B., & Hart, J. Seeing the forests and the trees: Exploring the neurological underpinnings of gist and detail processing. *Cognitive Neuroscience Society Annual Meeting*, San Francisco, April, 2008.
- Anand, R.**, Maguire, M. J., Chapman, S. B., Hart, J. & Moore, P. S. Gist-based and detail-based processing of information: Effects of normal cognitive aging. *International Neuropsychological Society Annual Meeting*, Waikoloa, Hawaii, February, 2008.
- Anand, R.**, Chapman, S. B., & Sparks, G. Gist Abstraction: Effects of age and Alzheimer's disease. *Cognitive Neuroscience Society Annual Meeting*, San Francisco, April, 2006.
- Anand, R.**, Cook, L., & Chapman, S. B. Dissolution of discourse gist in early stages of Alzheimer's disease. *International Neuropsychological Society*, St. Louis, February, 2005.
- Anand, R.**, Zientz, J., & Chapman, S. B. *Discourse gist in mild cognitive impairment. American Speech-Language Hearing Association Convention*, Philadelphia, November, 2004.
- Raksha. H. R.**, & Karanth, P. Semantic deficit in dementia of the Alzheimer's type. *XXXI National Conference of Indian Speech and Hearing Association*, Chandigarh (India), 1999.
- Raksha. H. R.** Oral and written picture description in elderly. *XXXI National Conference of Indian Speech and Hearing Association*, Chandigarh (India), 1999.
- Raksha. H. R.** Verbal fluency in elderly: A cross language comparison in bilinguals. *XXX National Conference of Indian Speech and Hearing Association*, Puri (India), 1998.

Raksha. H. R., & Mahendra, N. Generative naming in the elderly: Evidence of an age related decline. *XXVIII National Conference of Indian Speech and Hearing Association*, Calcutta (India), 1996.

Mahendra, N., & **Raksha. H R.** Response patterns on a Word Association Test (WAT): Effects of Aging. *XXVIII National Conference of Indian Speech and Hearing Association*, Calcutta (India), 1996.

Invited Talks

Semantic Abstraction in Mild Cognitive Impairment. Journal Club, *Alzheimer's Disease Center*, The University of Texas Southwestern Medical Center, 2011

Aging and Brain Health. Applied Gerontology Division, *College of Public Affairs and Community Service*, University of North Texas, 2010.

Electrophysiological Correlates of Gist-Detail Processing: Amnesic Mild Cognitive Impairment versus Normal Aging. Postdoc Perspectives, *The University of Texas at Dallas*, 2010.

Differences between Gist and Detail Processing. FLASH Brown Bag series, Callier Center, The University of Texas at Dallas, 2008.

Mild Cognitive Impairment: A Clinical Perspective. *DFW Aphasiology Association*, 2006.

Gist Abstraction: Effects of Normal Aging and Early Stage Alzheimer's Disease. Brown Bag, Callier Center, *The University of Texas at Dallas*, 2006.