

## NEERAJA SADAGOPAN, Ph.D., CCC-SLP

Department of Speech, Language, and Hearing Science

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### EDUCATION

All India Institute of Speech and Hearing (AIISH), Mysore, India

B.Sc. (Honors) Speech and Hearing

2000

Purdue University, West Lafayette, Indiana

M.S. Speech Language Pathology

2003

Ph.D. Speech Science

2008

### CLINICAL CERTIFICATION

Certificate of Clinical Competence, Speech-Language Pathology

2004

### PROFESSIONAL EXPERIENCE

#### **Assistant Professor**

Department of Speech, Language, and Hearing Science

University of Colorado – Boulder

2008 - present

#### **Speech Language Pathology Clinical Fellow**

M.D. Steer Speech Language Clinic, Purdue University, West Lafayette, Indiana

Indiana Veteran's Home, West Lafayette, Indiana

Greater Lafayette Area Special Services (GLASS), West Lafayette, Indiana

2003 - 2004

#### **Graduate Research and Teaching Assistant**

Department of Speech, Language and Hearing Sciences

Purdue University, West Lafayette, Indiana

2000 - 2008

### HONORS/AWARDS

- 'Faculty of the Year' Award, University of Colorado-Boulder Chapter of the National Student Speech Language Association 2012
- 'Faculty of the Year' Award, University of Colorado-Boulder Chapter of the National Student Speech Language Association 2010
- 'Outstanding Faculty' Award, University of Colorado-Boulder Chapter of the National Student Speech Language Association 2009
- Purdue Research Foundation Dissertation Fellowship 2006 - 2007
- Purdue University Graduate Student Award for Outstanding Teaching 2006
- Graduate School Summer Research Grant Award 2005

## RESEARCH AND SCHOLARSHIP

### PUBLICATIONS

#### **Refereed Journals**

\* denotes student-authored publications

1. Kan, P.F., & **Sadagopan, N.** (in press). Speech mapping effects on bilingual children's fast mapping performance, *Seminars in Speech and Language*.
2. Kan, P.F., & **Sadagopan, N.** (2014). Novel word retention in bilingual and monolingual speakers. *Frontiers in Psychology*, 5, 1024.
3. Kan, P.F., **Sadagopan, N.**, Janich, L., and Andrade, M. (2014). The effects of speech practice on fast mapping in monolingual and bilingual speakers. *Journal of Speech, Language, and Hearing Research*, 57, 929-941.
4. \*Scheiner, L.R., **Sadagopan, N.**, and Sherwood (2014). The Effect of Practice Schedules on Speech Motor Acquisition and Retention. *Journal of Motor Learning and Development*, 2, 29 -36.
5. **Sadagopan, N.**, and Smith, A. (2013). Novel nonword learning in older speakers. *Journal of Speech, Language, and Hearing Research*, 56, 1552-1566.
6. \*Lisman, A.L., and **Sadagopan, N.** (2013). Focus of attention and speech motor performance. *Journal of Communication Disorders*, 46, 281 – 293.
7. Sasisekaran, J., Smith, A., **Sadagopan, N.**, and Weber-Fox, C. (2010). Nonword repetition in children and adults: effects on movement coordination. *Developmental Science*, 13, 521-532.
8. Smith, A., **Sadagopan, N.**, Walsh, B., and Weber-Fox, C. (2010). Phonological complexity affects speech motor dynamics in adults who stutter. *Journal of Fluency Disorders*, 35, 1-18.
9. **Sadagopan, N.**, and Smith, A. (2008). Developmental changes in the effects of utterance length and complexity on speech movement variability. *Journal of Speech, Language, and Hearing Research*, 51, 1138-1151.
10. **Sadagopan, N.**, and Huber, J.E. (2007). Effects of loudness cues on respiration in individuals with Parkinson's disease. *Movement Disorders*, 22, 651-659.
11. Ertmer, D.J., Strong, L.M., and **Sadagopan, N.** (2003). Beginning to communicate after cochlear implantation: oral language development in a young child. *Journal of Speech, Language, and Hearing Research*, 46, 328-340.

#### **Publications in Preparation**

1. **Sadagopan, N.** (in preparation). Comparing linear and non-linear analyses of speech movement signals. Research report to be submitted to the *Journal of Speech, Language, and Hearing Research*.
2. **Sadagopan, N.**, Lydon, L., Wright, K.P. Jr., and Bergevin, M. (in preparation). The role of sleep in speech motor skill acquisition: preliminary evidence from acoustic data. To be submitted to the *Journal of Speech Language and Hearing Research*.

## PRESENTATIONS

\* denotes presentations by students

### **Peer Reviewed Abstracts and Conference Presentations**

1. Kan, P.F., and **Sadagopan, N.** (2014, June). Speech Practice Effects on Bilingual Childrens' Fast Mapping Skills. Symposium on Research in Child Language Disorders, Madison, Wisconsin.
2. **Sadagopan, N.**, Wright, Jr., K.P., Stickgold, R., & Feider, M.E. (2014, June). The Role of Sleep in Speech Motor Skill Learning: Behavioral and Kinematic Evidence. SLEEP conference, Minneapolis, Minnesota.
3. **Sadagopan, N.**, Wright, Jr., K.P., Stickgold, R., & Feider, M.E. (2013, November). The Role of Sleep in the Retention of Newly Acquired Novel Speech Motor Skills. American Speech-Language-Hearing Association Conference, Chicago, Illinois.
4. \*Scheiner, **Sadagopan, N.**, and Sherwood, D.E. (2012, March). The Effect of Practice Schedules on Short- and Longer-term Nonword Acquisition and Retention. Sixteenth Biennial International Conference on Motor Speech, Santa Rosa, California.
5. Kan, P., **Sadagopan, N.**, Andrade, M., and Janich, L. (2011, November). Effects of Language Experience on Word Learning in Bilingual Speakers. American Speech-Language-Hearing Association Conference, San Diego, California.
6. \*Lisman, A., and **Sadagopan, N.** (2011, November). Attentional Focus and Speech Motor Performance. American Speech-Language-Hearing Association Conference, San Diego, California.
7. \*Scheiner, L.R., **Sadagopan, N.**, and Sherwood, D.E. (2011, November). The Effect of Blocked vs. Randomized Practice on Nonword Acquisition and Retention. American Speech-Language-Hearing Association Conference, San Diego, California.
8. **Sadagopan, N.**, and Kan, P. (2011, November). The Effect of Practice on the Retention of English, Spanish and Cantonese Nonwords. American Speech-Language-Hearing Association Conference, San Diego, California.
9. **Sadagopan, N.**, Wright, K.P. Jr., and Bergevin, M. (2011, November). Sleep Deprivation and Novel nonword repetition. American Speech-Language-Hearing Association Conference, San Diego, California.
10. **Sadagopan, N.**, and Wright Jr., K.P. (2011, June). Effects of Sleep Deprivation on Speech Motor Retention. Twenty Fifth Annual Meeting of the Associated Professional Sleep Societies, Minneapolis, Minnesota.
11. Kan, P., and **Sadagopan, N.** (2010, November). Language – Motor Interface of Word Learning. American Speech-Language-Hearing Association Conference, Philadelphia, Pennsylvania.

12. Kan, P., and **Sadagopan, N.** (2010, November). Language – Motor Interactions in Word Learning: Stimuli Development. American Speech-Language-Hearing Association Conference, Philadelphia, Pennsylvania.
13. **Sadagopan, N.**, and Smith, A. (2010, March). The Effect of Aging on Nonword Repetition: Behavioral and Kinematic Evidence. Fifteenth Biennial International Conference on Motor Speech, Savannah, Georgia.
14. **Sadagopan, N.**, and Smith, A. (2009, November). Neural Plasticity and Speech Motor Learning in Older Speakers. American Speech-Language-Hearing Association Conference, New Orleans, Louisiana.
15. Sasisekaran, J., Smith, A., **Sadagopan, N.**, Walsh, B., and Weber-Fox, C. (2008, March). Nonword Repetition in Children and Adults: Evidence for Consolidation of Speech Motor Learning. Fourteenth Biennial Conference on Motor Speech, Monterey, California.
16. Sasisekaran, J., **Sadagopan, N.**, Smith, A. Weber-Fox, C., and Walsh, B. (2007, November). Nonword repetition in children and adults: Evidence for consolidated speech-motor learning. American Speech-Language-Hearing Association Conference, Boston, Massachusetts.
17. Smith, A., Walsh B., Sasisekaran, J., **Sadagopan, N.**, and Weber-Fox, C. (2007, March). Short term plasticity in children's and adults' speech motor systems. Meeting of the Society for the Neural Control of Movement. Seville, Spain.
18. **Sadagopan, N.**, and Huber J.E. (2006, March). Effects of Loudness Cues on Respiration in Individuals with Parkinson's disease. Thirteenth Biennial Conference on Motor Speech, Austin, Texas.
19. **Sadagopan, N.**, and Smith, A. (2004, March). Influence of Utterance Length and Complexity on the Spatiotemporal Stability and Phrase Durations of Speech Movement Sequences: Age Related Changes. Twelfth Biennial Conference on Motor Speech, Albuquerque, New Mexico.

#### **Local Presentations/ Talks**

1. **Sadagopan, N.**, and Smith A. (2010, May). Neural Plasticity and Speech Motor Learning in Older Speakers. Rocky Mountain Regional Neuroscience Group Annual Meeting, University of Colorado – Denver, Aurora, Colorado.
2. **Sadagopan, N.**, and Smith, A. (2010, April). The Effect of Aging on Nonword Repetition: Behavioral and Kinematic Evidence. Institute of Cognitive Science Annual Poster Session, University of Colorado, Boulder, Colorado

#### **RESEARCH GRANTS**

##### **Funded Grants**

##### **Intramural**

“Diadochokinetic Rates in Student Athletes: Normative Data and Impact of Concussion” 2013

The Center to Advance Research & Teaching in the Social Sciences (CARTSS)

Role: Principle Investigator

Amount: \$ 2500

“Sleep and Speech Motor Memory Formation” 2012  
Innovative Seed Grant Program, University of Colorado – Boulder  
Role: Principle Investigator  
Amount: \$44,000

“Towards an integrated theory of speech motor learning in elderly individuals” 2010  
The Center to Advance Research & Teaching in the Social Sciences (CARTSS)  
Role: Principle Investigator  
Amount: \$ 4000

## TEACHING

### COURSES TAUGHT

#### **Undergraduate Courses**

Speech Science, SLHS 3116 (Spring/Fall; 3 credits);  
Average Class Size = 96.25 students  
Number of times class taught: 4  
Instructor Rating (Average) 5.28/6.0 Course Rating (Average) 5.03/6.0

Speech Disorders: Voice, Cleft Palate, Motor Speech Disorders, SLHS 4512 (Spring; 2 credits)  
Average Class Size = 76 students  
Number of times class taught: 4  
Instructor Rating (Average) 5.28/6.0 Course Rating (Average) 5.18/6.0

#### **Graduate Courses**

Motor Speech Disorders, SLHS 5292 (Fall; 3 credits)  
Average Class Size = 28.75 students  
Number of times class taught: 4  
Instructor Rating (Average) 5.38/6.0 Course Rating (Average) 5.13/6.0

#### **Overload**

Applied Speech Science, SLHS 5006 (Fall; 2 credits)  
Average Class Size = 30 students  
Number of times class taught: 2  
Instructor Rating (Average) 5.5/6.0 Course Rating (Average) 4.8/6.0

### RESEARCH MENTORSHIP AND TRAINING GRANTS

Mentor and UROP Assistantship Sponsor 2009 - present

### INVOLVEMENT IN GRADUATE AND UNDERGRADUATE RESEARCH

#### **Doctoral Students:**

##### **1. Doctoral Comprehensive Exam Committee Member**

Kim Frey 2011

Ramesh Muralimanohar 2011

##### **2. Doctoral Thesis Committee Member**

Kim Frey 2011 – 2013

Paula Messemer 2011 - present

## **Masters Students:**

### **1. Master's Thesis Chair**

Lauren Scheiner	2011
Title: The Effect of Practice Schedules on Nonword Acquisition and Retention in Young Adults	
Amanda Lisman	2011
Title: Focus of Attention and Speech Motor Performance	
Katherine Cavaliere	2014 – present
Title: Interactions between cognition and speech motor control	
Talia Lapid	2014 – present
Title: Diadochokinetic rates in individuals with brain injury	
Toini Morgan	2014-present
Title: The effects of aging on speech planning and production	

### **2. Master's Thesis Committee Member**

Kaitlin Schuessler	2010
Title: Performance of Alternate Motion Rate (AMR) in Individuals with Parkinson's Disease under External and Internal Cueing Conditions.	
Elizabeth Boyd	2011
Title: The Effects of LSVT®LOUD and LSVT®LOUD/CLEAR on Articulation in STN-DBS Subjects with Idiopathic Parkinson's Disease	
Juliana White	2013-present
Title: TBD	

### **3. Supervisor of Other Graduate Research Personnel**

<u>Name</u>	<u>Title/Position</u>	<u>Period</u>
Bethany Franklin	Graduate Research Assistant	2011- 2012
Daniel Haught	Graduate Research Assistant	2011
Jennifer Jacobsen	Graduate Research Assistant	2010-2011
Kristin Risinger	Graduate Research Assistant	2011 - 2012
Molly Feider	Graduate Research Assistant	2013 - present

## **Undergraduate Students:**

### **1. Honors Thesis Chair**

Isa Down ( <i>Summa Cum Laude</i> ); Co-Advisor with Dr. Lorraine Ramig	2010
Title: The effects of speech/voice therapy (LSVT®) post-neurosurgical intervention on intelligibility in individuals with Parkinson's disease.	
Lizzy Lydon ( <i>Magna Cum Laude</i> )	2012
Title: The Role of Sleep on Speech Motor Skill Learning	
Devon Harger	2014 – present
Title: The effects of sustained reading and hydration on voice	

## 2. Supervisor of Other Undergraduate Research Personnel

<u>Name</u>	<u>Title/Position</u>	<u>Period</u>
Grace Sanders	Undergraduate Research Assistant	2013
Ashley Ward	Undergraduate Research Assistant	2012
Marissa Cannady	Undergraduate Research Assistant	2012 – 2013
Kelsi Darouse	Undergraduate Research Assistant	2012
Julie Hoffman	Undergraduate Research Assistant (UROP)	2012
Kelly Horton	Undergraduate Research Assistant	2012 – 2013
Mariah Howard	Undergraduate Research Assistant	2012 - 2013
Casey Aberth	Undergraduate Research Assistant	2011 – 2012
Miranda Aragon	Undergraduate Research Assistant	2011- 2012
Christina Carrano	Undergraduate Research Assistant	2011 – 2012
Alexandra Gomez	Undergraduate Research Assistant	2011 – 2012
Emily Guttman	Undergraduate Research Assistant	2011 – 2012
Andrea Haselmaier	Undergraduate Research Assistant	2011 – 2012
Elizabeth Lydon	Undergraduate Research Assistant	2011 – 2012
Richelle Shimek	Undergraduate Research Assistant	2011 – 2012
Amy Steiner	Undergraduate Research Assistant (UROP)	2011 – 2012
Sandra Vandergoot	Undergraduate Research Assistant	2011 – 2012
Jennifer Zeberlein	Undergraduate Research Assistant	2011 - 2012
Monica Bergevin	Undergraduate Research Assistant (UROP)	2010 - 2011
Ryan Bettcher	Undergraduate Research Assistant	2010 - 2012
Lillia Jackson	Undergraduate Research Assistant	2010 - 2012
Margaret Morton	Undergraduate Research Assistant (UROP)	2010 - 2011
Heidi Spees	Undergraduate Research Assistant (UROP)	2009 - 2010

## PROFESSIONAL ACTIVITIES

### EDITORSHIPS/REVIEWS

#### **Ad-hoc Peer Review**

<i>Journal of Speech, Language and Hearing Research</i>	2011 - present
<i>Journal of Communication Disorders</i>	2009 - present
<i>American Journal of Speech Language Pathology</i>	2009

### MEMBERSHIPS

Member, American Speech – Language- Hearing Association (ASHA)	2003 – present
Member, Sleep Research Society (SRS)	2013- present

## COMMITTEE, ORGANIZATIONAL AND VOLUNTEER SERVICE

### **Department**

PhD Committee, Member, University of Colorado – Boulder,	2014 –present
MA-SLP Committee, Member, University of Colorado - Boulder	2013 - present
Coordinator of Undergraduate Studies	2011 – 2013
MA-SLP Curriculum Committee, Member, University of Colorado – Boulder	2013
Program Review Committee	2012 - 2013
MA-SLP Committee, Member, University of Colorado - Boulder	2011 - 2012

MA-SLP Curriculum Committee, Member, University of Colorado – Boulder	2010 – 2011
Research Committee, Member, University of Colorado-Boulder	2008 – 2011
MA-SLP Committee, Member, University of Colorado - Boulder	2009 – 2010

**College and University**

SLHS Representative, Arts and Science Council	2014 - present
Faculty Advisor, Association for India's Development (AID), Colorado Chapter	2011 - present
Center for Neuroscience, Faculty Liason to the SLHS Department, University of Colorado-Boulder	2008 - present
Institute of Cognitive Science, Executive Committee, Member, University of Colorado- Boulder	2009 - 2011

**INTERDISCIPLINARY ACTIVITY**

Faculty Member of the Center for Neuroscience, University of Colorado - Boulder  
 Faculty Member of the Institute of Cognitive Science, University of Colorado - Boulder

**PROFESSIONAL DEVELOPMENT**

FTEP Assessment Institute: Achieving Course Goals (3 days)	Spring 2011
FTEP Summer Institute: Web 2.0 Tools (5 days), University of Colorado	Summer 2010
LEAP Introductory Leadership Workshop (2 ½ days), University of Colorado	Summer 2009