

Gayle DeDe, Ph.D., CCC-SLP

Department of Communication Sciences and Disorders
 Temple University
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EMPLOYMENT

2015-present	Associate Professor (Research)	Communication Sciences and Disorders Temple University
2014-2015	Associate Professor	Speech, Language, & Hearing Sciences University of Arizona
2008-2014	Assistant Professor	Speech, Language, & Hearing Sciences University of Arizona

EDUCATION

Ph.D.	Boston University, Boston, MA, 2007 Department of Speech, Language & Hearing Sciences <i>Dissertation:</i> Lexical, Pragmatic, and Prosodic Effects on Sentence Comprehension in Younger, Older, and Aphasic Adults <i>Advisors:</i> Gloria Waters, Ph.D. & David Caplan, M.D., Ph.D.
M.S.	Boston University, Boston, MA, 2002 Department of Speech, Language & Hearing Sciences <i>Thesis:</i> Sentence Comprehension in Aphasia: An Examination of Three Theories <i>Advisors:</i> Gloria Waters, Ph.D. & David Caplan, M.D., Ph.D.
B.A.	McGill University, Montreal, Canada, 1996 (Great Distinction) Department of Psychology (Linguistics minor) <i>Thesis:</i> The Gesture-Speech Relationship in Children who Stutter <i>Advisors:</i> Rachel Mayberry, Ph.D. & Rosalee Shenker, Ph.D.

HONORS AND AWARDS

2011	Invited participant in ASH Foundation Grant Review and Reviewer Training.
2011	Invited participant in NIDCD-sponsored workshop for new clinician-investigators in communication disorders: Strategies for Success.
2010	" <i>Most Clinically Relevant Coursework</i> " award from the University of Arizona local chapter of the National Student Speech Language Hearing Association.
2008	Lessons for Success Travel Award. Co-sponsored by ASHA & NIH
2008	Advancing Academic Research Careers Award from ASHA (Primary Mentor: Cynthia Thompson, Ph.D.)
2003 & 2005	NIDCD Travel Fellow, Clinical Aphasiology Conference
2003	Sargent College Dean's Award, Boston University Science & Technology Day
2003	American Speech and Hearing (ASH) Foundation New Century Scholar Doctoral Scholarship

1999 - 2004 Boston University Graduate Research Assistant Scholarship

PROFESSIONAL AFFILIATIONS

Certificate of Clinical Competence: American Speech Language Hearing Association (ASHA)

ASHA Special Interest Division #2: Neurogenic Communication Disorders

Speech Language Pathologist: State of Arizona & Commonwealth of Pennsylvania

PUBLICATIONS

Chapters

- Caplan, D., Waters, G.S. & DeDe, G. (2007). *Specialized verbal working memory for language comprehension*. In A. Conway, C. Jarrold, M. Kane, A. Miyake, & J. Towse, (Eds.), *Variations in working memory*. New York: Oxford University Press.
- DeDe, G. & Richtsmeyer, E. (2011). *Syntactic and linguistic-based approaches*. In L. LaPointe (Ed), *Aphasia and Related Neurogenic Language Disorders*, 4th Edition. Thieme Medical Publishers.
- DeDe, G. & Knilans, J. (submitted). *Language Comprehension*. In H. H. Wright (Ed.), *Language and the Human Life Span*.

Refereed Journal Articles

- Mayberry, R., Jacques, J., & DeDe, G. (1998). What stuttering reveals about the nature of the gesture-speech relationship. In J. Iverson & S. Goldin-Meadow (Eds.), *The Relationship between Gesture and Speech in Childhood. New Directions in Child Development*, 79. (pp. 77-87). San Francisco, CA: Jossey-Bass Inc.
- DeDe, G., Parris, D. & Waters, G.S. (2003). Teaching self-cues: A treatment approach for verbal naming. *Aphasiology*, 17, 465-480
- DeDe, G., Caplan, D., Kemtes, K., & Waters, G.S. (2004). The relationship between age, verbal working memory, and language comprehension. *Psychology & Aging*, 19, 601-616.
- DeDe, G. & Caplan, D. (2006). Factor analysis of aphasic syntactic comprehension disorders. *Aphasiology*, 20, 123-135.
- Caplan, D., DeDe, G., & Michaud, J. (2006). Task-independent and task-specific syntactic deficits in aphasic comprehension. *Aphasiology*, 20, 893-920.
- Caplan, D., DeDe, G., & Brownell, H. (2006). Effects of syntactic features on sentence-picture matching in Broca's aphasics: A reply to Draai and Grodzinsky. *Brain and Language*, 96(2), 129-134.
- Caplan, D., Waters, G.S., DeDe, G., Michaud, J., & Reddy, A. (2007). A study of syntactic processing in aphasia I: Behavioral aspects. *Brain and Language*, 101(2), 103-150.
- Caplan, D., Waters, G.S., Kennedy, D., Alpert, N., Makris, N., DeDe, G., Michaud, J., & Reddy, A. (2007). A study of syntactic processing in aphasia II: Neurological aspects. *Brain and Language*, 101(2), 151-177.
- DeDe, G. (2010). Utilization of prosodic information in syntactic ambiguity resolution. *Journal of Psycholinguistic Research*, 39(4), 345-374.
- Gutman, R., DeDe, G., Michaud, J., Liu, J.S., & Caplan, D. (2010). Rasch models of aphasic performance on syntactic comprehension tests. *Cognitive Neuropsychology*, 27(3), 230-244.
- Gutman, R., DeDe, G., Caplan, D., & Liu, J.S. (2011). Rasch model and its extensions for analysis of aphasic deficits in syntactic comprehension. *Journal of the American Statistical Association*, 106(496), 1304-1316.

- Caplan, D., DeDe, G., Waters, G., Michaud, J., & Tripodis, Y. (2011). Effects of age, speed of processing, and working memory on comprehension of sentences with relative clauses. *Psychology and Aging, 26*, 439-450.
- DeDe, G. (2012). Lexical and prosodic effects on syntactic ambiguity resolution in aphasia. *Journal of Psycholinguistic Research, 41*(5), 387-408.
- DeDe, G. (2012). Effects of word frequency and modality on sentence comprehension impairments in people with aphasia. *American Journal of Speech Language Pathology, 21*, S103-S114.
- DeDe, G. (2013). Verb transitivity bias affects on-line sentence reading in people with aphasia. *Aphasiology, 27*(3), 326-343.
- DeDe, G. (2013). Reading and listening in people with aphasia: Effects of syntactic complexity. *American Journal of Speech Language Pathology, 22*(4), 579-590.
- DeDe, G. (2013). Effects of verb bias and syntactic ambiguity on reading in people with aphasia. *Aphasiology, 27*(12), 1408-1425.
- Dallas, A., DeDe, G., & Nicol, J. (2013). An Event-Related Potential (ERP) investigation of filler-gap processing in native and second language speakers. *Language and Learning, 63*(4), 766-799.
- DeDe, G., Ricca, M., Knilans, J., & Trubl, B. (2014). Construct validity and reliability of working memory tasks for people with aphasia. *Aphasiology, 28*(6), 692-712.
- DeDe, G. (2014). Sentence comprehension in older adults: Evidence for risky processing strategies. *Experimental Aging Research, 40*(4), 436-454.
- DeDe, G. (2015). Effects of animacy on processing relative clauses in older and younger adults. *The Quarterly Journal of Experimental Psychology, 68*(3), 487-498.
- Knilans, J. & DeDe, G. (in press). Online sentence reading in people with aphasia: Evidence from eye tracking. Paper to appear in the *American Journal of Speech Language Pathology*.

CONFERENCES / SCHOLARLY PRESENTATIONS

Invited Colloquia & Seminars

- DeDe, G. & O'Bryan, E. (2008). *Sentence production treatment in aphasia*. Talk presented at: NSSLHA-Sponsored speech-language pathology educational forum, University of Arizona.
- DeDe, G. (2009). *Syntactic ambiguity resolution in people with aphasia*. Colloquium presented in the Linguistics Department at the University of Arizona.
- DeDe, G. (2012). *Studies of sentence comprehension in people with aphasia*. Short talk presented in the Neuroscience Datablitz at the University of Arizona.
- DeDe, G. (2012). *Memory and aging*. Invited presentation at the UA Audiology Workshop, "Cognition and Hearing Aid Decisions for Children and Older Adults."
- DeDe, G. (2013). *Executive Functions in Traumatic Brain Injury*. Invited presentation at Arizona Speech and Hearing Association Fall Workshop, "The Missing Piece is You."

Conferences

- Gropen, J., Blaskovich, J., & DeDe, G. (1995, November). *Come it closer: Causative errors in child speech*. Paper presented at the annual Boston University Conference on Language Development, Boston, MA.
- Waters, G.S., Caplan, D., DeDe, G., & Kemtes, K. (1999, November). *Operation span and language processing in young and elderly subjects*. Paper presented at the annual meeting of the Psychonomics Society, Los Angeles, CA.
- Waters, G.S., Caplan, D., DeDe, G., & Kemtes, K. (2000, March). *The relationship between processing speed, working memory capacity, and language processing in young and elderly subjects*. Poster presented at the Cognitive Aging Conference, Atlanta, GA.

- Waters, G.S., & DeDe, G. (2000, March). *The reliability and validity of operation span measures*. Poster presented at the Cognitive Aging Conference, Atlanta, GA.
- Waters, G.S., DeDe, G., & Caplan, D. (2002, March). *The structure of verbal working memory in young-young, young-old, and old-old individuals*. Poster presented at the Cognitive Aging Conference, Atlanta, GA.
- DeDe, G., Parris, D., & Waters, G.S. (2002, May). *Teaching Self-Cues: A treatment approach for verbal naming*. Poster presented at the annual Clinical Aphasiology Conference, Ridgedale, MO.
- DeDe, G., Caplan, D., & Waters, G.S. (2003, May). *On-line sentence comprehension in aphasia during sentence-picture matching*. Poster presented at the annual Clinical Aphasiology Conference, Orca's Island, WA.
- Parris, D., DeDe, G., & Waters, G.S. (2003, November). *Written naming treatment to facilitate verbal naming in chronic aphasia*. Poster presented at the annual American Speech-language Hearing Association Convention, Chicago, Illinois.
- DeDe, G., Caplan, D., & Waters, G.S. (2003, November). *The relationship between age, verbal working memory, and on-line syntactic processing, sentence comprehension, and text comprehension*. Poster presented at the annual meeting of the Psychonomics Society, Vancouver, BC.
- Caplan, D., Waters, G.S., Kennedy, D., Alpert, N., Makris, N., DeDe, G., Michaud, J., & Reddy, A. (2004, November). *A study of syntactic processing in aphasia II: Neurological aspects*. Paper presented at the annual meeting of the Academy of Aphasia, Chicago, IL.
- Caplan, D., Waters, G.S., DeDe, G., Michaud, J., & Reddy, A. (2004, November). *A study of syntactic processing in aphasia I: Behavioral aspects*. Paper presented at the annual meeting of the Academy of Aphasia, Chicago, IL.
- DeDe, G., Caplan, D., Waters, G.S., Michaud, J., & Reddy, A. (2005, May). *Sentence comprehension in aphasia: Stability of performance*. Poster presented at the annual Clinical Aphasiology Conference, Sanibel Island, FL.
- DeDe, G., Caplan, D., Waters, G.S., Michaud, J., & Reddy, A. (2005, May). *Factors underlying sentence comprehension in older adults and people with aphasia*. Paper presented at the annual Clinical Aphasiology Conference, Sanibel Island, FL.
- DeDe, G., Caplan, D., & Waters, G.S. (2006, March). *Effects of prosody and transitivity biases in auditory syntactic ambiguity resolution*. Poster presented at the CUNY Sentence Processing Conference, New York.
- Hoover, E. & DeDe, G. (2007, November). *Treatment of discourse production in stressful speaking environments*. Poster presented at the ASHA Convention, Boston, MA.
- Waters, G., Caplan, D., & DeDe, G. (2008, April). *Effects of age, working memory and speed of processing on syntactic processing costs in sentences with relative clauses*. Poster presented at the Cognitive Aging Conference, Atlanta, GA.
- Waters, G., Caplan, D., & DeDe, G. (2008, April). *Effects of age, working memory and speed of processing on the repeated name penalty effect*. Poster presented at the Cognitive Aging Conference, Atlanta, GA.
- DeDe, G., Caplan, D., & Waters, G. (2008, April). *Effects of age, working memory and speed of processing on recovery from garden path effects in early closure sentences*. Poster presented at the Cognitive Aging Conference, Atlanta, GA.
- DeDe, G. (2008, April). *Older and younger adults use lexical-pragmatic and prosodic cues differently in syntactic ambiguity resolution*. Poster presented at the Cognitive Aging Conference, Atlanta, GA.
- Caplan, D., Waters, G., & DeDe, G. (2008, April). *Effects of age, working memory and speed of processing on the satisfied goal effect*. Poster presented at the Cognitive Aging Conference, Atlanta, GA.

- Caplan, D., Waters, G., & DeDe, G. (2008, April). *Effects of age, working memory and speed of processing on complex syntactic processing*. Poster presented at the Cognitive Aging Conference, Atlanta, GA.
- Caplan, D., Waters, G., & DeDe, G. (2008, April). *Effects of age, working memory and speed of processing on change of co-indexation of a pronoun to an unfocused referent in discourse processing*. Poster presented at the Cognitive Aging Conference, Atlanta, GA.
- Caplan, D., DeDe, G., Gutman, R., Liu, J., & Waters, G. (2008, May). *Rasch models of aphasic deficits of syntactic comprehension*. Paper presented at the annual Clinical Aphasiology Conference, Jackson Hole, WY.
- DeDe, G. (2008, May). *Lexical-pragmatic and prosodic effects on syntactic ambiguity resolution in aphasia*. Paper presented at the annual Clinical Aphasiology Conference, Jackson Hole, WY.
- DeDe, G. (2011, May). *Effects of word frequency and modality on sentence comprehension impairments in people with aphasia*. Paper presented at the annual Clinical Aphasiology Conference, Ft Lauderdale, FL.
- Dallas, A., DeDe, G., & Nicol, J. (2012, March). *An event-related potential (ERP) investigation of filler-gap processing in native and second language speakers*. Paper presented at the CUNY Sentence Processing Conference, New York, NY.
- Dallas, A., DeDe, G., & Nicol, J. (2012, October). *L2 processing of wh-dependencies in native and second language speakers: An Event-related Potential study*. Paper presented at Second Language Research Forum, Pittsburgh, PA.
- Knilans, J. & DeDe, G. (2012, November). *Integration of lexical and structural information during sentence processing*. Poster presented at ASHA Convention, Atlanta, GA.
- DeDe, G. (2012, November). *Effects of verb transitivity bias on sentence reading in people with aphasia* (2012). Poster presented at Academy of Aphasia, San Francisco, CA.
- DeDe, G. (2013, March). *Effects of verb bias and syntactic ambiguity on reading in people with aphasia*. Poster presented at CUNY Sentence Processing Conference, Columbia, SC.
- DeDe, G. (2013, March). *Effects of animacy on processing relative clauses in older and younger adults*. Poster presented at CUNY Sentence Processing Conference, Columbia, SC.
- DeDe, G. (2013, May). *Effects of verb bias and syntactic ambiguity on reading in people with aphasia*. Poster presented at Clinical Aphasiology Conference, Tucson, AZ.
- DeDe, G., Knilans, J., Ricca, M., & Trubl, B. (2013, May). *Construct validity and reliability of working memory tasks for people with aphasia*. Poster presented at Clinical Aphasiology Conference, Tucson, AZ.
- DeDe, G. (2013, November). *Effects of verb bias and syntactic ambiguity on reading in people with aphasia*. Paper presented at ASHA Convention, Chicago, IL.
- DeDe, G., Knilans, J., Ricca, M., & Trubl, B. (2013, November). *Construct validity and reliability of working memory tasks for people with aphasia*. Paper presented at ASHA Convention, Chicago, IL.
- DeDe, G. & Knilans, J. (2014, March). *On-line sentence reading in people with aphasia: Evidence from eye tracking*. Poster presented at CUNY Sentence Processing Conference, Columbus, OH.
- DeDe, G. & Knilans, J. (2014, May). *On-line sentence reading in people with aphasia: Evidence from eye tracking*. Poster presented at Clinical Aphasiology Conference, St. Simon's Island, GA.
- DiLallo, J., Mettler, H., & DeDe, G. (2015) A corpus-based analysis of verb transitivity biases in individuals with aphasia. Paper to be presented at the ASHA Convention. Denver, CO.

RESEARCH SUPPORT

Active

03/2011-03/2016 NIH/NIDCD K23 Grant Award: *Sentence comprehension impairments in aphasia*. PI: Gayle DeDe (75% effort, 100% responsible) (Total award amount = \$868,431)

Completed

01/2005-12/2008 NIH/NIDCD F31 NRSA Pre-doctoral fellowship: *Sentence comprehension in aphasia*. PI: Gayle DeDe

1/2006 - 1/2007 Dudley Allen Sargent Research Fund: *Sentence Comprehension in Aphasia*. PI: Gayle DeDe

11/2008-12/2010 American Speech and Hearing Foundation Research Grant for New Investigators: *On-line sentence comprehension in aphasia: Is reading different than listening?* PI: Gayle DeDe (\$5000) (3% effort, 100% responsible)

8/2009 – 7/2010 University of Arizona Foundation Faculty Small Grants Program: *Sentence comprehension: Effects of aging*. PI: Gayle DeDe (\$10,000) (5% effort, 100% responsible)

06/2010-05-2011 Language Learning Small Grants Project: *Electrophysiological Approaches to Language Comprehension in Second Language Learners*. PI: Andrea Dallas. Co-PI: Gayle DeDe (\$10,000) (3% effort, 33.3% responsible)

CLINICAL EXPERIENCE

2005-2007	Speech-Language Pathologist	Aphasia Community Resource Center Boston University, Boston, MA
2003-2007	Per-Diem Speech Language Pathologist Inpatient Rehabilitation	Braintree Rehabilitation Hospital Braintree, MA
2006-2007	Per Diem Speech Language Pathologist Outpatient Rehabilitation	Metro West Hospital Framingham, MA
2005-2006	Per Diem Speech Language Pathologist Skilled Nursing Facility	Courtyard Nursing Care Center Medford, MA

TEACHING EXPERIENCE

University of Arizona: Instructor

2008-present Adult Language Disorders: Traumatic Brain Injury and Dementia (graduate)

2010-2011 Research Methods (graduate)

2008-present Neurobiology of Communication (undergraduate)

Boston University: Teaching Assistant

2005-2007 Aphasia (graduate; Co-Instructor: 2006)

2002-2005 Neuroanatomy and Neuropsychology (graduate)

MENTORSHIP EXPERIENCE

Doctoral Student Committees

2009 Jessica Aguilar (Speech, Lang, and Hearing Sciences, Chair: Elena Plante)

2010 Megha Bahl (Speech, Lang, and Hearing Sciences, Chair: Elena Plante)

2010 Hyesuk Cho (Speech, Lang, and Hearing Sciences, Chair: Pélagie Beeson)

2010 Naoko Witzel (Psychology, Chair: Ken Forster)

2010 Christina Meyers (Speech, Lang, and Hearing Sciences, Chair: Elena Plante)

2012	Kaitlyn Zavaleta (Psychology, Chair: Janet Nicol)
2013	Dane Bell (Psychology, Co-chairs: Ken Forster & Tom Bever)

Master's Thesis Committee Service (*Chair)

2009	Rachel King (Pélagie Beeson, Chair)
2010	Miranda Babiak (Pélagie Beeson, Chair)
*2012	Akinjide Famoyegan
2013	Jessica Aguilar (Elena Plante, Chair)
*2014	Matthew Ricca
*2014	Jessica Knilans
2015	Stephanie Yagata (Stephen Wilson, Chair. Anticipated completion May 2015)

Undergraduate Thesis

2011	Brittany Glas
2011	Shane Veglia
2013	Samantha Deitering (Senior capstone)

Research and Academic Mentoring (*undergraduate)

2010	Mentor for the <i>Minority Health Disparities Summer Research</i> program (1 student*)
2011	Mentor for <i>Summer Research Institute</i> (1 student*)
2012 & 2014	Mentor for the <i>Undergraduate Biology Research Program</i> (3 students*)
2008-present	Academic advisor for Masters students (approximately 5 per year)
2012-present	Mentor for the <i>Arizona Assurance Scholars Program</i> (3 students*)

SERVICE AND OUTREACH

University Service

1999-2002	Graduate Student Representative, College Academic Policy and Procedures Committee, Boston University
2000-2002	Co-creator and organizer, Speech, Language, and Hearing Sciences Colloquium Series, Boston University
2008-present	National Student Speech Language and Hearing Association (NSSLHA), Local Chapter Co-Advisor
2008-present	Member, Graduate Admissions and Policy Committee (M.S. & AuD)
2008-present	Member of Second Language Acquisition and Teaching Graduate Interdisciplinary Program
2008-present	Member of Cognitive Science Graduate Interdisciplinary Program
2009-2013	Panel member for 'Mentorship Advising Program for Students (MAPS) " <i>Applying to Graduate School.</i> " Discuss strategies for applying to graduate school, including how to request letters of application, what to put in a personal statement, etc.
2010-2011	Chair, Student Awards Committee
2011-present	Chair, Professional Exams Committee
2012 & 2013	Panel member for 'Mentorship Advising Program for Students (MAPS) " <i>You have your degree, now what?</i> " Worked with faculty and students to develop a

- presentation for alternative careers for people with undergraduate degrees in Speech, Language, and Hearing Sciences.
- 2013 & 2014 Member of the *Undergraduate Biology Research Program* selection committee

Local/State Outreach

- 2008 NSSLHA-Sponsored Tucson Speech-Language Pathology Educational forum, *Sentence Production Treatment in Aphasia*
- 2009 In-service "Traumatic Brain Injury in Pediatric Populations" to Vail School District All Special Education Staff Day.
- 2010 & 2013 Presented guest lecture, "Biological and Psychological Aspects of Aging" to Pima Community College Class "Social Gerontology"
- 2009-2012 Presented community lecture "Memory and Aging" to residents of Atria Campano del Rio, Academy Village, and members of St. Philips congregation.
- 2012 Presented community lecture "Living with Alzheimer's Disease: Strategies" to members of Family Caregiver Support Group at St. Philips Church.
- 2012 Participated in planning and staffing the SLHS booth at the Pima Council in Aging Health Expo "Ages 'n Stages"
- 2013 Presented community lecture "Hearing Aids in the Real World: Why is Listening So Hard?" with Nicole Marrone, PhD, CCC-A.

National/International Service & Outreach

- 2006 Chair of Logistics Committee, National Aphasia Association *Speaking Out!* Conference, Boston, MA
- 2010, 2011, 2015 Reviewer for "Students Preparing for Academic & Research Careers" (SPARC) Award, American Speech, Language, & Hearing Association
- 2011, 2015 ASHFoundation Grant Reviewer
- 2011 Ad-Hoc Reviewer, Veteran's Administration Grant (Rehabilitation Research & Development)
- 2012 & 2014 Program Committee Member, Clinical Aphasiology Conference
- 2013 Local Arrangements Committee Member, Clinical Aphasiology Conference
- 2013 Ad-Hoc Reviewer, National Science Foundation Grant
- 2008 – present Ad-Hoc Peer Reviewer for the Following Journals: *American Journal of Speech Language Pathology; Aphasiology; Experimental Aging Research; Journal of Communication Disorders; Journal of Memory and Language; Journal of Psycholinguistic Research; Journal of Speech, Language, and Hearing Research; Language and Cognitive Processes; Neurocase; Psychology and Aging*
- 2015-present Associate Editor, *Journal of Communication Disorders*