

## CURRICULUM VITAE

Andrea L. Pittman

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Dept of Speech and Hearing Science  
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### EDUCATION

University of Wisconsin-Madison Madison, Wisconsin	Ph.D.	1998	Hearing Science
San Diego State University San Diego, California	M.A.	1992	Audiology
Point Loma Nazarene University San Diego, California	B.A.	1985	Communicative Disorders

### PROFESSIONAL EXPERIENCE

Assistant Professor	Speech and Hearing Science Arizona State University	2004 – present
Adjunct Assistant Professor	Special Ed. & Communication Dis. Dept. University of Nebraska – Lincoln	2003 - 2004
Research Associate	Hearing Aid Research Lab Boys Town National Research Hospital	1999 - 2004
Post-Doctoral Fellow	Hearing Aid Research Lab Boys Town National Research Hospital	1998 - 1999
Research Assistant	Hearing Development Research Lab University of Wisconsin-Madison	1997 - 1998
Clinical Audiologist	Assessment Core University of Wisconsin-Madison	1995 - 1998
Clinical Audiologist	Hearing Dynamics San Diego, California	1991 - 1994

### FELLOWSHIPS, SCHOLARSHIPS, and AWARDS

Nominated, Dean's Distinguished Teaching Award, 2005-2006  
Loan Repayment Program, National Institutes of Health, 2003-2006  
Traineeship, Department of Communicative Disorders, U.S. Department of Education,  
University of Wisconsin - Madison; 1994-1997  
Awarded the 1997 Student Research Grant in Audiology by the American Speech-Language-  
Hearing Foundation. Funded by the Ventry and Freidrich Memorial Funds.  
Awarded the 1997 Outstanding Graduate Student in Audiology by the Wisconsin Speech-  
Language-Hearing Association. Funded by the Kim Simon Memorial Foundation.

## CERTIFICATION AND LICENSES

Certificate of Clinical Competence in Audiology (1992-present) – American Speech-Language-Hearing Association

## EXTRAMURAL FUNDING

Clinical Research Award Principle Investigator  
 American Speech-Language-Hearing Foundation  
 “Validating Advanced Signal Processing for Children with Hearing Loss”  
 December, 2008 – December 2010  
 \$75,000

R03 DC006573 Principal Investigator  
 National Institute on Deafness and Other Communication Disorders  
 “Perceptual Coherence in Listeners with Hearing Loss”  
 January 2004 – December 2007  
 \$150,000

R01 DC004300 Co-Investigator  
 National Institute on Deafness and Other Communication Disorders  
 “Optimizing Amplification for Infants and Young Children”  
 PI – Pat Stelmachowicz  
 September 1999 – August 2004

## PUBLICATIONS

### Manuscripts under Review

**Pittman, A.L.** (in review). Effects of digital noise reduction on children’s performance under progressively demanding listening conditions. *Journal of Speech, Language, and Hearing Research*

### Published, Refereed Articles

Gustafson, S. & **Pittman, A.L.** (in press). Sentence Perception in Listening Conditions having Equivalent Speech Intelligibility Indices. *International Journal of Audiology*.

**Pittman, A.L.**, Vincent, K., & Carter, L. (2009). Immediate and long-term effects of hearing loss on the speech perception of children. *Journal of the Acoustical Society of America*, *126* (3), 1447-1485.

McCreery, R., **Pittman, A.L.**, Lewis, J., Neely, S.T., & Stelmachowicz, P.G. (2009). Use of forward pressure level to minimize acoustic standing waves during probe-microphone hearing-aid verification. *Journal of the Acoustical Society of America*, *126* (1), 15-24.

McFadden, B. & **Pittman, A.L.** (2008). Multitasking in children with normal hearing and children with minimal hearing losses. *Language, Speech, and Hearing Services in Schools*, *39*, 342-351.

- Pittman, A.L.** (2008). Short-term word learning rate in children with normal hearing and children with hearing loss in limited and extended high-frequency bandwidths. *Journal of Speech, Language, and Hearing Research*, 51, 785-797.
- Pittman, A.L.** (2008). Perceptual coherence in listeners having longstanding childhood hearing losses, listeners with adult-onset hearing losses, and listeners with normal hearing. *Journal of the Acoustical Society of America*, 123, 441-449.
- English, K., Naeve-Velguth, S., Rall, E., Uyehara-Isono, J., & **Pittman, A.** (2007). Development of an Instrument to Evaluate Audiologic Counseling Skills. *Journal of the American Academy of Audiology*, 18, 677-68.
- Moeller, M., Stelmachowicz, P., Hoover B., Putman, C., Arbataitis, B., Wood, S., Lewis D., & **Pittman, A.** (2007). Vocalizations of infants with hearing loss compared with infants with normal hearing: Part I – Phonetic Development. *Ear and Hearing*, 25, 605-627.
- Moeller, M., Stelmachowicz, P., Hoover B., Putman, C., Arbataitis, B., Wood, S., Lewis, D., & **Pittman, A.** (2007). Vocalizations of infants with hearing loss compared with infants with normal hearing: Part II – Transition to words. *Ear and Hearing*, 28, 628-642.
- Pittman, A.L.**, Lewis, D.L., Hoover, B.M., & Stelmachowicz, P.G. (2005). Rapid word-learning in normal-hearing and hearing-impaired children: Effects of age, receptive vocabulary, and high-frequency amplification. *Ear and Hearing*, 26, 619-629.
- Stelmachowicz, P.G., **Pittman, A.L.**, Hoover, B.M., Lewis, D.L. & Moeller, M.P. (2004). The importance of high-frequency audibility in the speech and language development of children with hearing loss. *Archives of Otolaryngology Head and Neck Surgery*, 130, 556-562.
- Stelmachowicz, P.G., **Pittman, A.L.**, Hoover, B.M., & Lewis, D.L. (2004). Novel-word learning in normal-hearing and hearing-impaired children. *Ear and Hearing*, 25, 47-56.
- Pittman, A.L.**, Stelmachowicz, P.G., Lewis, D.E., & Hoover, B.M. (2003). Spectral characteristics of speech at the ear: Implications for amplification in children. *Journal of Speech, Language, and Hearing Research*, 46, 649-657.
- Pittman, A.L.** & Stelmachowicz, P.G. (2003). Hearing loss in children and adults: Audiometric characteristics, asymmetry and progression. *Ear and Hearing*, 24, 198-205.
- Pittman, A.L.**, Stelmachowicz, P.G., Lewis, D.E., & Hoover, B.M. (2002). Influence of hearing loss on the perceptual strategies of children and adults. *Journal of Speech, Language, and Hearing Research*, 45, 1276-1284.
- Stelmachowicz, P.G., **Pittman, A.L.**, Hoover, B.M., & Lewis, D.L., (2002). Aided perception of /s/ and /z/ by hearing-impaired children. *Ear and Hearing*, 23 (4), 316-324.
- Stelmachowicz, P.G., **Pittman, A.L.**, Hoover, B.M., & Lewis, D.L., (2001). The effect of stimulus bandwidth on the perception of /s/ in normal- and hearing-impaired children and adults. *Journal of the Acoustical Society of America*, 110 (4), 2183-2190.
- Pittman, A.L.**, & Wiley, T.L. (2001). Recognition of speech produced in noise. *Journal of Speech, Language, and Hearing Research*, 44, 487-496.
- Pittman, A.L.**, & Stelmachowicz, P.G. (2000). Perception of voiceless fricatives by normal-hearing and hearing-impaired children and adults. *Journal of Speech, Language, and Hearing Research*, 43, 1389-1401.

- Stelmachowicz, P.G., Hoover, B.M., Lewis, D.E., Kortekaas, R.L., & **Pittman, A.L.** (2000). The relation between stimulus context, speech audibility and perception for normal and hearing impaired children. *Journal of Speech, Language, and Hearing Research, 43*, 902-914.
- Pittman, A.L.**, Lewis, D.E., Hoover, B., Stelmachowicz, P.G. (1999). Recognition performance for four combinations of FM and environmental microphone signals in adverse listening conditions. *Ear and Hearing, 20*, 279-289.
- Page (Pittman), A.L.**, Kramer, S.J., Novak, J., William, D., & Slymen, D. (1995). Tympanometric Screening in Elementary School Children, *Audiology, 34*, 6-12.

#### **Book Chapters, Proceedings, Invited articles**

- Pittman, A.L.** (2010). Complicated listening environments: How do children with hearing loss manage? *Hands and Voices Communicator, 13*, 2, pp 1 and 4.
- Pittman, A.L.** (2005). Audiometric configurations in children. In *A Sound Foundation Through Early Amplification 2004; Proceedings of the Third International Conference*, R.C. Seewald & J.S. Gravel (Eds), St. Edmundsbury Press, Great Britain.
- Wiley, T.L. & **Page (Pittman), A.L.** (1996). Current and future perspectives on speech perception tests. In *Speech Perception: Audiologic Assessment and Management*, L.L. Mendel & J.L. Danhauer (Eds). Singular Publishing Co., San Diego, CA.

#### **PRESENTED PAPERS**

- Pittman, A.L.**, Petersen, K., & Choat, C. (2010, March). Cognitive Resource Allocation in Children with Hearing loss. Presented at the American Auditory Society, Scottsdale, AZ.
- Pittman, A.L.**, Petersen, K., & Choat, C. (2010, February). Cognitive Resource Allocation in Children with Hearing loss. Presented at the ASU Language and Cognition Colloquium, Tempe, AZ
- Gustafson, S., & **Pittman, A.L.** (2008, March). Sentence Perception of Children and Adults in a Series of Listening Conditions having Equivalent Speech Intelligibility Indices. Presented at the American Auditory Society, Scottsdale, AZ.
- Pittman, A.L.** (2007, March). Perceptual Coherence in Adults with Congenital and Acquired Hearing Losses. Presented at the American Auditory Society, Scottsdale, AZ.
- Pittman, A.L.**, Lewis, D.E., Hoover, B.M., and Stelmachowicz, P.G. (2005, March). How Extended High-Frequency Amplification Affects Word Learning in Children. Presented at the American Auditory Society, Scottsdale, AZ.
- Stelmachowicz, P.G., **Pittman, A.L.**, Hoover, B.M., & Lewis, D.E. (2003, March). Learning Rate for Novel Words in Normal-Hearing and Hearing-impaired Children. Presented at the 2003 American Auditory Society Meeting, Scottsdale, AZ.
- Pittman, A.L.**, Moeller, M.P., & Stelmachowicz, P.G. (2003, March). Early Speech and Language Development in Children with Hearing Loss. Presented at the 2003 American Auditory Society Meeting, Scottsdale, AZ.
- Lewis, D.L., **Pittman, A.L.**, Hoover, B.M. & Stelmachowicz, P.G. (2002, August) Interaction Between Amplification and the Spectral Characteristics of Self-Generated Speech in Children. Presentation at the 2002 International Hearing Aid Research Conference, Lake Tahoe, CA.
- Pittman, A.L.**, & Stelmachowicz, P.G. (2002, March) Audiometric Characteristics of Adults and Children. Presentation at the American Auditory Society, Scottsdale, AZ.

- Stelmachowicz, P.G., **Pittman, A.L.**, Lewis, D.E., & Hoover, B.M. (2002, March) Spectral Characteristics of Children's Speech: Implications for Self-Monitoring Through Amplification. Presentation at the American Auditory Society, Scottsdale, AZ.
- Pittman, A.L.**, Stelmachowicz, P.G., Lewis, D.E., & Hoover, B.M. (2001, November) Some Perceptual Weighting Strategies in Normal-Hearing and Hearing-Impaired Children and Adults. Presentation at the Second International Pediatric Conference Sponsored by Phonak, Chicago, IL.
- Pittman, A.L.**, Stelmachowicz, P.G., Lewis, D.E., & Hoover, B.M. (2001, March) Perceptual Weighting Strategies of normal-hearing and hearing-impaired children and adults. Presentation at the 2001 American Auditory Society Meeting, Scottsdale, AZ.
- Stelmachowicz, P.G., **Pittman, A.L.**, Lewis, D.E., & Hoover, B.M. (2001, March) Morpheme perception in normal-hearing and hearing-impaired children. Presentation at the 2001 American Auditory Society Meeting, Scottsdale, AZ.
- Stelmachowicz, P.G., **Pittman, A.L.**, Hoover, B.M., & Lewis, D.E. (2000, August) The effect of stimulus bandwidth on fricative perception in normal-hearing and hearing-impaired children and adults. Presentation at the 2000 International Hearing Aid Research Conference, Lake Tahoe, CA.
- Pittman, A.L.**, Stelmachowicz, P.G. (2000, August) Perception of voiceless fricatives by normal-hearing and hearing-impaired children and adults. Presentation at the 2000 International Hearing Aid Research Conference, Lake Tahoe, CA.
- Pittman, A.L.**, & Stelmachowicz, P.G. (2000, March) Perception of voiceless fricatives by normal-hearing and hearing-impaired children and adults. Presentation at the 2000 American Auditory Society Meeting, Scottsdale, AZ.
- Pittman, A.L.**, Lewis, D.E., Hoover, B., Stelmachowicz, P.G. (1999, March) Recognition performance for four combinations of FM and environmental microphone signals in adverse listening conditions. Presentation at the 1999 American Auditory Society Meeting, Scottsdale, AZ.
- Page (Pittman), A.L.** (1997, November) Test-retest Variability in Tympanometric Measures. Poster presented at the annual meeting of the American Speech, Language & Hearing Association, Boston, MA.
- Page (Pittman), A.L.**, Chapman, R & Doherty, K. (1997, April) Screening Tympanometry in Down Syndrome Children and Adults. Poster presented at the 9th Annual Convention of the American Academy of Audiology, Fort Lauderdale, FL.
- Page (Pittman), A.L.**, Kramer, S.J., Novak, J., William, D., & Slymen, D. (November, 1994). Tympanometric Screening in Elementary School Children. Poster presented at the annual meeting of the American Speech, Language, and Hearing Association, San Antonio, TX.

#### INVITED PRESENTATIONS

- Pittman, A.L.** (2010, July). The effects of hearing loss on children's ability to attend in the classroom. ASDB Regional Cooperatives Conference, Phoenix, AZ.
- Pittman, A.L.** (2009, January). Children, Hearing Loss, and Communication. Auditory Cognitive Neuroscience Society Meeting, Tucson, AZ.
- Pittman, A.L.** (2008, September). What parents should know about hearing aids: What's inside, how they work, and what's best for kids. AZ Hands and Voices Expo, Phoenix, AZ.
- Pittman, A.L.** (2008, April). Word Learning in Children with Hearing Loss. Arizona Speech Hearing Association, Annual Conference, Tempe, AZ.

- Pittman, A.L.** (2007, November). Simulating Hearing Loss in Children. Presented at the Speech, Language, Hearing Sciences Department Colloquium series, University of Arizona, Tucson, AZ.
- Pittman, A.L.** (2007, November). Isolating the Short- and Long-Term Effects of Hearing Loss: Simulating Hearing Loss in Children with Normal Hearing. Presented at the EAR. Foundation Conference, Phoenix, AZ.
- Pittman, A.L.** (2007, October). Early vs. Late Onset Hearing Loss: How Children Differ from Adults. Presented at the Canadian Audiology Association Conference. Niagara Falls, Canada.
- Pittman, A.L.** (2006, October). Current Issues in Pediatric Amplification. Presented to the faculty and students of the Speech, Language, and Hearing Sciences Department at the University of Arizona, Tucson, AZ.
- Pittman, A.L.** (2004, November). Audiometric Configurations in Children. Presented at the Sound Foundation Through Early Amplification Conference, Chicago, IL.

## **STUDENT DIRECTED RESEARCH**

### **Undergraduate Research Projects**

#### 2008-2009

Greta Eikenberry "Hearing loss and conversational discourse in older adults"

Kristi Petersen "Concurrent task management in children with hearing loss"

#### 2007-2008

Chelsea Choat "Multitasking in children as a function of task difficulty"

#### 2006-2007

Rebecca Breshin "Optimal duration of daily preschool intervention for children with hearing loss"

Leah Carter "Can the performance of noise-masked normal-hearing children differentiate the contributions of amplification characteristics from other factors that effect the speech perception of hearing-impaired children?"

#### 2005-2006

Erin Castioni "Filtered speech audiometry"

Emily Davis "Extended high-frequency information promotes perceptual coherence"

Melissa Johnson "Word learning patterns in normal-hearing and hearing-impaired children"

Christina Adams "Maximizing speech perception tests to better predict aided benefit"

Ann Hickox "Perceptual coherence of auditory objects in normal-hearing and hearing-impaired adults"

### **Undergraduate Honors Theses**

- Vanessa Tucker (2009), "Procedural discourse production in younger and older adults"
- Samantha Gustafson (2008), "Sentence perception of children and adults in a series of listening conditions having equivalent speech intelligibility indices"
- Brittany McFadden, (2007), "Multitasking in noise for children with minimal sensorineural hearing loss"

## Graduate Research Projects

### 2009-2010

Sarah Nunley (AuD) "Noise Reduction Effectiveness Across Hearing Aid Models and Manufacturers"

Samantha Gustafson (AuD) "Acoustic and Behavioral Threshold Differences between insert earphones coupled to personal earmolds and foam tips"

### 2008-2009

Natasha Bertsch (AuD) "Domain specific cognitive resource allocation in adults"

### 2007-2008

Mary Beth O'Sullivan (PhD) "Word learning in children with hearing loss and noise-masked normal-hearing children" First-year project

Kendell Vincent (AuD) "Simulating hearing loss in children with normal hearing: Isolating the short- and long-term effects of hearing loss"

Christina Sergi (AuD) "Optimal duration of daily preschool intervention for children with hearing loss"

## PhD Dissertations

Anthony Spahr	2004	Committee Member
Erica Williams	2010	Committee Member

## TEACHING EXPERIENCE

Course#	Title	Enrollment
<b>Arizona State University</b>		
ASU101	The ASU Experience	18
SHS 311	Physical and Physiological Bases of Hearing	100+
SHS 401	Introduction to Audiology	100+
SHS 504L	Amplification I	15
SHS 508	Pediatric Audiology	10-15
SHS 518	Auditory Rehabilitation	10-15
SHS 591	Pediatric Amplification (seminar)	10
<b>University of Wisconsin-Madison</b>		
CD 320	Introduction to Audiology	100+
CD 720	Audiology for Speech Language Majors	15

## UNIVERSITY SERVICE

### Department

Member, AuD Admissions and Program Committee  
Member, Curriculum Committee  
Chair, Undergraduate Program Committee  
Chair, Aud/PhD Development Committee (ad hoc)

**University**

Alternate member, Institutional Review Board  
University Senator

**PROFESSIONAL SERVICE**

**Assistant Editor**

Journal of the American Academy of Audiology

**Ad hoc reviewer**

Journal of the Acoustical Society of America  
Journal of Speech Language Hearing Association  
Journal of the American Academy of Audiology  
International Journal of Audiology  
Ear and Hearing

**Miscellaneous**

Small grant reviewer – Defeating Deafness (UK)  
Poster submission reviewer – ASHA