

CURRICULUM VITAE

MITCHELL STEVEN SOMMERS, Ph.D.

PERSONAL:

Mailing Address: Department of Psychology
Washington University
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Home Address: 11757 Frontier Drive
St. Louis, MO 63146

Phone: (314) 567-7015

Birthdate: July 15, 1960

Marital Status: Married

EDUCATION:

1. Georgetown University, Washington, D.C. 1978-1982
B.S. (Psychology)
2. University of Michigan, Ann Arbor, MI 1984-1990
Ph.D. (Psychology/Biopsychology)
Dissertation Co-Chairs: William C. Stebbins and David B. Moody
Title: Formant frequency discrimination by Japanese monkeys
3. Indiana University, Bloomington, IN 1990-1993
(NIH Postdoctoral Fellow: Training grant director Dr. David Pisoni)

ACADEMIC POSITION:

1993- 6/30/00	Assistant Professor Department of Psychology	Washington University
7/1/00- 6/30/09	Associate Professor Department of Psychology	Washington University
7/1/09- present	Professor Department of Psychology	Washington University

Publications (peer reviewed)

- Prosen, C.A., Moody, D.B., Stebbins, W.C., Smith, D.W., Sommers, M.S., Brown, J.N., Altschuler, R.A., & Hawkins, J.E. (1990). Apical hair cells and hearing. *Hearing Research*, 44, 179-193.
- Prosen, C.A., Moody, D.B., Sommers, M.S., & Stebbins, W.C. (1990). Frequency discrimination in the monkey. *Journal of the Acoustical Society of America*, 88, 2152-2161.
- Sommers, M.S., Moody, D.B., Prosen, C.A. & Stebbins, W.C. (1992). Formant frequency discrimination by Japanese macaques (*Macaca fuscata*). *Journal of the Acoustical Society of America*, 91, 3499-3510.
- Sommers, M.S. & Humes, L.E. (1993). Auditory filter shapes in normal-hearing, noise-masked normal-hearing, and elderly subjects. *Journal of the Acoustical Society of America*, 93, 2903-2914.
- Nygaard, L.C., Sommers, M.S., & Pisoni, D.B. (1994). Speech perception as a talker-contingent process. *Psychological Science*, 5, 42-46.
- Sommers, M.S., Nygaard, L.C., & Pisoni, D.B. (1994). Stimulus variability and the perception of spoken words: I. Effects of variations in speaking rate and absolute level. *Journal of the Acoustical Society of America*, 96, 1314-1324.
- Kirk, K.I., Pisoni, D.B., Sommers, M.S., Young, M., & Evanson, C. (1995). New directions for assessing speech perception in persons with sensory aids. *Annals of Otology, Rhinology, and Laryngology*, 107, 300-303.
- Nygaard, L.C., Sommers, M.S., & Pisoni, D.B. (1995). Effects of stimulus variability on the perception and representation of spoken words in memory. *Perception and Psychophysics*, 57, 989-1001.
- Sommers, M. S., & Kewley-Port, D. (1996). Modeling formant frequency discrimination of female vowels. *Journal of the Acoustical Society of America*, 99, 3770-3781.
- Sommers, M. S. (1996). The structural organization of the mental lexicon and its contributions to age-related declines in spoken word recognition. *Psychology and Aging*, 11, 333-341
- Sommers, M. S., Iler Kirk, K., & Pisoni, D.B. (1997). Some considerations in evaluating spoken word recognition in normal hearing, noise-masked normal hearing, and cochlear implant listeners. I: Effects of response format. *Ear and Hearing*, 18, 89-99.
- Sommers, M.S. (1997). Factors contributing to the speech perception difficulties of older adults: The importance of speech-specific cognitive abilities. *Journal of the American Geriatrics Association*, 11-17.
- Sommers, M.S. (1997). Stimulus variability and spoken word recognition. II: The effects of age and hearing impairment. *Journal of the Acoustical Society of America*, 101, 2278-2288.

- Sommers, M. S., & Gehr, S. E. (1998). Auditory frequency selectivity and suppression in younger and older adults. *Journal of the Acoustical Society of America*, 103, 1067-1075.
- Sommers, M. S. & Amano, S. (1998). Lexical competition in spoken word recognition by younger and older adults: A comparison of the rime cognate, neighborhood, and cohort. *Journal of the Acoustical Society of America*, 103, 2052-2055.
- Sommers, M.S. (1998). Spoken word recognition in individuals with dementia of the Alzheimer's type: Changes in talker normalization and lexical discrimination. *Psychology and Aging*, 13, 631-646.
- Sommers, M. S. & Lewis, B. R. (1999). Who really lives next door: Creating false memories with phonological neighbors. *Journal of Memory and Language*, 40, 83-108.
- Sommers, M. S. (1999). Perceptual specificity and implicit auditory priming in older and younger adults. *Journal of Experimental Psychology: Learning Memory and Cognition*, 25, 1236-1255
- Sommers, M.S. & Danielson, S. E. (1999). Inhibitory processes and spoken word recognition in young and older adults: The interaction of lexical competition and semantic context. *Psychology and Aging*, 14, 458-472.
- Gehr, S. E., & Sommers, M. S. (1999). Age differences in backward masking. *Journal of the Acoustical Society of America*, 106, 2793-2799.
- Yonan, C. A. & Sommers, M. S. (2000). Implicit and explicit effects of talker familiarity on spoken word recognition in older and younger adults. *Psychology and Aging*, 15, 88-99.
- Pilotti, M., Bergman, E. T., Gallo, D. A., Sommers, M. S., & Roediger, H. L. (2000). Direct comparison of auditory implicit memory tests. *Psychological Bulletin and Review*, 7, 347-353
- Pilotti, M., Balota, D., Sommers, M. S. & Kurdich, A. (2000). Auditory habituation in young and older adults. *Psychology and Aging*, 15, 313-322.
- Sommers, M. S., Tye-Murray, N., & Spehar, B. (2002). Auditory-visual integration in older and younger adults. *Seminars in Hearing*, 23, 85-97.
- Vitevitch, M. & Sommers, M. S. (2003). The facilitative influence of phonological similarity and neighborhood frequency in speech production in younger and older adults. *Memory & Cognition* 31, 491-504.
- Sommers, M. S. & Huff, L. (2004). Phonological false memories in older adults and individuals with dementia of the Alzheimer's type. *Psychology and Aging*, 791-806.

- Spehar, B.A., Tye-Murray, N. & Sommers, M.S. (2004). Time-Compressed visual speech and age: A first report. *Ear and Hearing*, 25, 565-572.
- Thomas, A. K. & Sommers, M. S. (2005). Attention to item-specific processing eliminates age effects in false memories. *Journal of Memory and Language*, 52, 71-86.
- Sommers, M. S., Spehar, B. & Tye-Murray, N. (2005). Auditory visual speech perception and visual enhancement in normal-hearing younger and older adults. *Ear and Hearing*, 26, 263-275 .
- Barcroft, J. and Sommers, M. S. (2005). Acoustic variability and second language vocabulary learning. *Studies in Second Language Acquisition*, 27, 387-414.
- Sommers, M. S. and Barcroft, J. (2006). Stimulus variability and the phonetic relevance hypothesis: Effects of variability in speaking style, fundamental frequency, and speaking rate on spoken word identification. *Journal of the Acoustical Society of America*, 119, 2406-2416.
- Sommers, M. S. and Barcroft, J. (2007). An integrated account of the effects of acoustic variability in first language and second language: Evidence from amplitude, fundamental frequency, and speaking rate variability. *Applied Psycholinguistics*, 28, 231-249.
- Barcroft, J., Sommers, M. S. and Tye-Murray, N. (2007). What learning a second language can tell us about auditory training. *Seminars in Hearing*, 28, 151-161.
- Tye-Murray, N., Sommers, M. S., & Spehar, B. (2007). Audiovisual integration and lipreading abilities of older adults with normal and impaired hearing. *Ear and Hearing*, 28, 656-668.
- Tye-Murray, N., Sommers, M. S., & Spehar, B. A. (2007). Auditory and Visual Lexical Neighborhoods in Audiovisual Speech Perception. *Trends in Amplification*, 11, 233-242.
- Tye-Murray, N., Sommers, M. S., & Spehar, B. A. (2008). Lipreading: Do women's and men's abilities change similarly with age? *Journal of the American Academy of Audiology*, 18, 17-31.
- Spehar, B., Tye-Murray, N., Sommers, M.S. (2008). Intra- Versus Inter-modal Integration in Young and Older Adults. *Journal of the Acoustical Society of America*, 123, 2858-2866.
- Tye-Murray, N., Sommers, M.S. Spehar, B., Myerson, J., Hale, S. and Rose, N. (2008). Auditory-Visual Discourse Comprehension by Older and Young Adults in

- Favorable and Unfavorable Conditions. *International Journal of Audiology*, 47, 103-109.
- Ballou, M. and Sommers, M.S. (2008). Similar phenomena, different mechanisms: The relationship between semantic and phonological false memories. *Memory and Cognition*, 36, 1450-1459.
- Rose, N., Myerson, J., Sommers, M.S. and Hale, S. (2009). Are there age differences in the executive component of working memory? Evidence from domain-general interference effects. *Aging, Cognition and Neuropsychology*, 633-653.
- Feld, J. and Sommers, M. S.(2009). Lipreading, Processing Speed, and Working Memory in Younger and Older Adults. *Journal of Speech, Language and Hearing Research*, 52, 1555-1565.
- Sommers, M. S. and Gehr, S. E. (2010). Two-tone auditory suppression in younger and older normal-hearing adults and its relationship to speech perception in noise. *Hearing Research*, 56-62.
- Tye-Murray, N., Sommers, M.S., Spehar, B., Myerson, J and Hale, S. (2010). Aging, Integration, and the Principle of Inverse Effectiveness. *Ear and Hearing*, 633-644.
- Hale, S., Rose, N., Myerson, J., Strube, M., Sommers, M. S., Tye-Murray, N., and Spehar, B. (2011). The structure of working memory abilities across the adult lifespan. *Psychology and Aging*, 26, 92-110.
- Sommers, M.S. and Barcroft, J. (2011). Indexical information, encoding difficulty, and second language vocabulary learning. *Applied Psycholinguistics*, 32, 417-434.
- Feld, J., & Sommers, M. (2011). There goes the neighborhood: Lipreading and the mental lexicon. *Speech Communication*, 53, 220-228
- Feld, J. and Sommers, M.S. (2011). Sizing up the competition: Quantifying the influence of the mental lexicon on auditory and visual spoken word recognition. *Journal of the Acoustical Society of America*, 1663-1672.
- Tye-Murray, N., Spehar, B., Myerson, J., Sommers, M.S., and Hale, S. (2011). Crossmodal enhancement of speech detection in young and older adults: Does signal content matter? *Ear and Hearing*, 650-655.
- Barcroft, J., Sommers, M.S., Tye-Murray, N., Schroy, C., Mauze, E. and Spehar, B. (2011). Tailoring Auditory Training to Patient Needs with Single and Multiple Talkers: Transfer-Appropriate Gains on a Four-Choice Discrimination Test. *International Journal of Audiology*, 1-7.

Manuscripts in press

Sommers, M.S., Hale, S., Myerson, J., Tye-Murray, N. and Spehar, B. (in press).
Listening comprehension across the adult lifespan. *Ear and Hearing*.

Lulich, S., Alwan, A., Arsikere, H. Morton, J., and Sommers, M.S. (in press). Resonances
and wave propagation velocity in the subglottal airways. *J Journal of the
Acoustical Society of America*.

Manuscripts submitted

Barcroft, J.; Sommers, M. S.; Tye-Murray, N.; Mauze, E.; Schroy, C. A Tutorial on
Incorporating Principles of Second Language Acquisition in Auditory Training

Tye-Murray, N., Sommers, M.S., Mauze, E., Schroy, C., Barcroft, J. and Spehar, B. Is the
Juice Worth the Squeeze?: Using Patient Perceptions of Relative Benefit and
Enjoyment to Assess Auditory Training

Book Reviews

Sommers, M. S. (1997). The rise and (sometimes) fall of linguistic abilities. A review of
Age differences in word and language processing, T. Bashore & P. Allen (Eds.).
Contemporary Psychology, 42, 925-926.

Sommers, M. S. (2001). Review of auditory perception: A new analysis and synthesis,
by R. M. Warren. *Volta Review*.

Book Chapters

Stebbins, W.C. & Sommers, M.S. (1992). Evolution, perception and the comparative
method. In A. Popper, R. Fay, D.B. Webster (Eds.), *The evolutionary biology of
hearing*, (Berlin: Springer-Verlag).

Sommers, M. S. (2005). Age-related changes in spoken word recognition. In D.B. Pisoni
and R. E. Remez (Eds). *The Handbook of Speech Perception*. Blackwell, 469-
493.

Barcroft, J., Sommers, M. & Sunderman, G. (2011). The Effects of L2 Vocabulary
Learning with the Keyword Method. In K. McDonough & P. Trofimovich (Eds.)
*Insights from psycholinguistics: Applying priming research to L2 learning and
teaching*, pp. 49- 72. Amsterdam: John Benjamins.

AWARDS:

1994 Washington University Eli Lilly Teaching Fellowship

1995 Selected Participant: National Institutes of Aging Summer Institute for Research
on Aging. Summer 1995.

1998 Washington University Council of Students of Arts and Sciences Service Award.

2000 Washington University Council of Students of Arts and Sciences Service Award.

2009 Fellow Acoustical Society of America

RESEARCH GRANTS AND FELLOWSHIPS:

Current and Past (PI is M. Sommers, unless otherwise noted)

Missouri State Alzheimer's Association Cognitive declines and speech processing in normal aging and Alzheimer's disease Total direct costs \$20,000	1995-1996
Brookdale Foundation (Career Development Award) Auditory processing and speech perception in older adults Total direct costs: \$156,432	1995-1998
Washington University Faculty Research Grant Context effects in normal aging and DAT Total direct costs: \$5,000	1996-1997
National Institutes on Aging Pilot grant from Washington University Alzheimer's Disease Research Center Talker normalization for spoken words in normal aging and DAT Total direct costs: \$20,000	1996-1997
McDonnell Center for Higher Brain Function Auditory frequency and temporal resolution in older adults Total direct costs: \$30,000	1997-1998
National Institutes on Aging (R03 AG033009-01) Auditory suppression in older adults Total direct costs: \$30,000	1997-1998
Washington University Faculty Research Grant Psychoacoustic abilities and Alzheimer's disease Total direct costs: \$5,000	1999-2000
Brookdale Foundation Predictors of spoken word recognition in older adults and Alzheimer's patients Total direct costs: \$15,000	2000-2001
National Institutes of Health (R01 DC04338-01) Auditory-visual integration in older adults PI: Nancy Tye-Murray Co-PI: Mitchell S. Sommers Total direct costs: \$970,152	2000-2005
Department of Defense Voice-stress analysis as a measure of deception Total direct costs: \$165,421	2001-2003

National Institutes of Health Compressive non-linearity and Hearing aids PI: Julius Goldstein Co-PI: Mitchell Sommers Total direct costs: \$1,215,179	2001-2003
McDonnell Center for Higher Brain Function. Listening comprehension in older adults and DAT patients Total direct costs: \$40,0000	2003-2004
National Institutes of Health Listening comprehension across the adult lifespan PI: Sandra Hale Co-PI: Mitchell Sommers Total direct costs: \$1,250,000	2004-2008
Gustavus and Louise Pfeiffer Foundation Improving speech perception with cochlear implants Total direct costs: \$71,073	2006-2007
National Institutes of Health (R01 DC04338-02) Auditory-visual integration in older adults PI: Nancy Tye-Murray Co-PI: Mitchell S. Sommers Total direct costs: \$1,110,072	2005-2010
National Science Foundation (SES-0552733) REU Site: Interdisciplinary Research on Aging at Washington University PI: Mitchell S. Sommers Total direct costs: \$210,559	2006-2009
Washington University Center for Programs in Humanities and Social Sciences Improving the benefits of cochlear implants Total direct costs: \$10,000	2008-2009
National Institutes of Health (1 R01 DC008964-01A1) Talker variability and auditory training PI: Nancy Tye-Murray Co-PI: Mitchell Sommers Total direct costs: \$750,000	2008-2011
Gustavus and Louis Pfeiffer Foundation Are cochlear implants a viable alternative to hearing aids for older adults	2008-2009

Total direct costs: \$73,415

National Science Foundations (0905250) 2009-2013
The Effect of Subglottal Resonances on Machine and Human
Speaker Normalization
Total direct costs: \$556,027

National Science Foundation (0851630) 2009-2010
Interdisciplinary Research on Aging at Washington University
Total direct costs: 302,218

Pending

National Institutes of Health 2011-2013
Sub-glottal resonances and speech perception
Total direct costs: \$250,000

National Institutes of Health (1 R01 DC008964-02) 2011-2016
Talker variability and auditory training
PI: Nancy Tye-Murray
Co-PI: Mitchell Sommers
Total direct costs: \$1,250,000

Fellowships for training

National Institutes on Aging 1998-1999
Individual Postdoctoral Award to Maura Pilotti
Faculty Sponsor: Mitchell S. Sommers

National Institutes on Deafness and Communication Disorders 2006-2011
Mentored Patient-Oriented Research Career
Development Award (K23) for Lisa Davidson
PI: Lisa Davidson
Primary Mentor: Mitchell Sommers
Total direct costs: \$213,455

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:

Acoustical Society of America
Association for Research in Otolaryngology
Psychonomic Society
American Psychological Society
American Psychological Association

PROFESSIONAL EXPERIENCE:

Editorial Positions:

Associate Editor Journal of the Acoustical Society of America	2006-2008
Associate Editor Journal of the Acoustical Society of America	2009-2012
Associate Editor Journal of Experimental Psychology: Human Perception and Performance	2008-2011
Editorial Borad Psychological Science	2009-2011

Research Grant Panels:

NIH LCOM Study Section May 2009
NSF Linguistics Panel June 2009

Ad Hoc reviewer:

Journal of the Acoustical Society of America
Psychology and Aging
Ear and Hearing
Perception and Psychophysics
Psychonomic Bulletin and Review
Journal of Memory and Language
Journal of Speech, Language, and Hearing Research
Contemporary Psychology
Journal of Experimental Psychology: Human Perception and Performance
Journal of Speech, Language and Hearing Research
Memory and Cognition
Journal of Experimental Psychology: Learning, Memory and Cognition

National Science Foundation

Linguistics Section Ad Hoc Reviewer

Advisory Committee

Aging and Speech Communication: Second International and Interdisciplinary
Research Conference

Aging and Speech Communication: Third International and Interdisciplinary
Research Conference

Program Committee:

American Psychological Society
American Speech, Hearing, and Language Association

RESEARCH DATABASE DEVELOPMENT

Lexical Neighborhood Database (<http://neighborhoodsearch.wustl.edu>). Provides
on-line search of 50,000-word database for psycholinguistic research. Total
number of hits since development in 2003 is 6,032.

DEPARTMENT/ UNIVERSITY/NATIONAL SERVICE

Computer Committee Dept. of Psychology	1994-1997
Departmental Human Subjects Review Committee	1994-1997
Departmental Colloquium Organizer	1995-1997
Freshman Advising	1995-1999
Cognitive Search Committee	1996-1997
Research Director Search Committee, Central Institute for the Deaf	1996-1998
Institutional Review Board, Central Institute for the Deaf	1996-2004

Social Psychology Search Committee	1997-1998
Undergraduate Curriculum Committee	1997-present
Departmental Subject Pool Committee	1997-present
Acoustical Society of America	2003-2008
Member, Technical Committee on Speech Communication	
Clinical Aging Search Committee	1998-1999
Arts and Sciences Curriculum Committee	2000-2001
Chair, Arts and Sciences Curriculum Committee	2001-2003
Associate Chair, Washington University Human Studies Committee	2001-2008
Member, Curriculum implementation committee	2001-2003
Chair, Washington University Center for Aging Curriculum Committee	2005- present
Member, Disability Resource Committee	2005 - present
Member, Faculty Advisory Committee	2007 - present
Member, Task force on Program for Ethical and Responsible Conduct in Science and Scholarship	2007- present
Chair, Institutional Review Board, Behavioral Minimal Risk Subcommittee	2008-present
Member, Disclosure Review Committee	2008-present
Member, Research Faculty Advisory Committee	2008-present
Member, O3A Institutional Review Board	2008-present
Member, Curriculum Review Committee	2008-present
Lien Scholars Selection Committee	2010-2011

PRESENTATIONS AT NATIONAL MEETINGS:

Session Chair

Sommers, M. S. (1996). Models and mechanisms of vowel perception. Symposium presented at the 132nd meeting of the Acoustical Society of America.

Invited Presentations

Sommers (1997). The role of sensory and cognitive impairments in age-related speech perception deficits. S. Richard Silverman Lecture. Central Institute for the Deaf.

Sommers, M. S. (1998). Individual differences in the effects of stimulus variability and lexical difficulty in older adults and Alzheimer's patients. Paper presented at the 136th meeting of the Acoustical Society of America.

Sommers (1998). Factors affecting speech perception in Alzheimer's disease: The role of audibility and cognitive impairment. Paper presented at the Annual meeting of the American Audiological Association.

Sommers (2001). Perception of lexical and indexical features of speech by young and older adults. Paper presented at the 139th meeting of the Acoustical Society of America.

Sommers (2005). Discourse comprehension in older and younger adults. Paper presented at the Biannual Conference on Aging and Language.

- Sommers (2007). Auditory-visual discourse comprehension across the adult lifespan. Paper presented at the Biannual Conference on Aging and Language.
- Sommers (2009). Aging and Discourse Comprehension: Auditory and Auditory-Visual Presentations. Presented at the Aging and Speech Communication: Third International and Interdisciplinary Research Conference.
- Sommers (2009) Speech perception in healthy aging and Alzheimer's disease. Invited presentation for conference on Hearing Care for Adults 2009: The Challenge of Aging. Chicago, IL.
- Sommers (2010). Speech perception, aging, and cognition. Invited Presentation for the 2009 meeting of the American Academy of Audiology, San Diego, CA.
- Sommers (2010). Lexical Neighborhoods in Auditory, Visual, and Auditory-Visual Modalities. Keynote address for the conference on Lexical access and Usage, London England.

Contributed Presentations

- Sommers, M.S., Moody, D. B., & Stebbins, W.C. (1991). Formant frequency discrimination by Japanese monkeys. Paper presented at the 12th Midwinter meeting of the Association for Research in Otolaryngology.
- Sommers, M.S., Nygaard, L. C., & Pisoni, D.B. (1992). The effects of speaking rate and amplitude variability on perceptual identification. Paper presented at the 123rd meeting of the Acoustical Society of America.
- Sommers, M.S. & Humes, L.E. (1992). Auditory filter shapes in normal-hearing, noise-masked normal, and elderly subjects. Paper presented at the 123rd meeting of the Acoustical Society of America.
- Nygaard, L. C., Sommers, M. S., & Pisoni, D. B. (1992). The effects of rate and talker variability on the recall of spoken words. Paper presented at the 123rd meeting of the Acoustical Society of America.
- Sommers, M. S., Nygaard, L. C., & Pisoni, D. B. (1992). The effects of linguistically relevant and irrelevant acoustic variations on spoken word recognition. Paper presented at the 1992 International Conference on Spoken Language Processing.
- Sommers, M. S., Kirk, K. I., Pisoni, D. B., & Osberger, M. J. (1993). Some new directions in evaluating the speech perception abilities of cochlear implant patients: A preliminary report. Paper presented at the 1993 International Conference on Implantable Auditory Prostheses.

- Sommers, M. S. & Humes, L. E. (1993). The effects of speaking rate and stimulus variability on the perception of spoken words by young and elderly subjects. Paper presented at the 125th meeting of the Acoustical Society of America.
- Sommers, M. S. & Kewley-Port, D. (1993). Modeling formant frequency discrimination. Paper presented at the 125th meeting of the Acoustical Society of America.
- Nygaard, L.C., Sommers, M.S. & Pisoni, D. B. (1993). Speech perception as a talker-contingent process. Paper presented at the 125th meeting of the Acoustical Society of America.
- Sommers, M. S. (1994). The structural organization of the mental lexicon and its contribution to age-related declines in spoken word recognition. Paper presented at the 128th meeting of the Acoustical Society of America.
- Sommers, M. S. (1994). Stimulus variability and spoken word recognition: The effects of age and hearing impairment. Paper presented at the 128th meeting of the Acoustical Society of America.
- Sommers, M.S. (1995). Implications of age-related declines in talker normalization and lexical discrimination for assessment and treatment of speech perception deficits in older adults. Paper presented at the 17th Midwinter meeting of the Association for Research in Otolaryngology.
- Yonan, C. A. & Sommers (1995). Age differences in the effects of talker familiarity on spoken word recognition. Paper presented at the 130th meeting of the Acoustical Society of America.
- Prohofsky, R. S. & Sommers (1995). Closed-set formats: An evaluation within the framework of the Neighborhood Activation Model. Paper presented at the 130th meeting of the Acoustical Society of America.
- Sommers, M.S. (1996). Hearing aids and speech perception in older adults. Paper presented at the 49th Annual Meeting of the Gerontological Society of America.
- Sommers, M. S. & Danielson, S. E. (1996). Spoken word recognition in individuals with dementia of the Alzheimer's type: Paper presented at the 132nd meeting of the Acoustical Society of America.
- Sommers, M. S. & Danielson, S. E. (1997). The interaction of lexical competition and semantic context in spoken word recognition by younger and older adults. Paper presented at the 133rd meeting of the Acoustical Society of America.
- Sommers, M. S. & Amano, S. (1998). Lexical competition in spoken word recognition by younger and older adults: A comparison of the rime cognate, neighborhood,

- and cohort. Paper presented at the 135th meeting of the Acoustical Society of America.
- Gehr, S. E. & Sommers, M. S. (1998). The effects of age and hearing impairment on the time course of backward masking. Paper presented at the 136th meeting of the Acoustical Society of America.
- Sommers, M. S. (1998). Inhibitory control and age-related declines in spoken word recognition: Can older adults keep their neighbors quiet? Poster presented at the Seventh Cognitive Aging Conference.
- Sommers, M. S. (1999). Auditory-Visual integration across the lifespan. Paper presented at the 138th meeting of the Acoustical Society of America.
- Sommers, M. S. and Barcroft, J. (2002). Acoustic Variability and Second Language Vocabulary Learning. Presented at the 145th meeting of the Acoustical Society of America.
- Thomas, A. and Sommers, M.S. (2002). Implicit memory for non-presented items. Psychonomic Society.
- Sommers, M. S. and Tye-Murray, N. (2003). Visual enhancement for consonants, words, and sentences in older and younger adults. Presented at the 146th meeting of the Acoustical Society of America
- Ballou, M.R., & Sommers, M.S. (2004). Age differences in phonological false memories for non-words. Cognitive Aging Conference, Atlanta, GA.
- Sommers, M., Spehar, B., & Tye-Murray, N. (2004) Differential effects of speaking rate on auditory-only and visual-only speech perception. Cognitive Aging Conference, Atlanta, GA. Cognitive Aging Conference, Atlanta, GA.
- Weinberg, A., & Sommers, M.S. (2004) Are two ears better than one? Across channel integration of speech and music in younger and older adults. Cognitive Aging Conference, Atlanta, GA.
- Barcroft, J. & Sommers, M.S. (2004). Stimulus variability and second language vocabulary acquisition. Mental Lexicon Conference, Ontario, Canada.
- Sommers, M.S., Spehar, B. and Tye-Murray, N. (2004). Age-related changes in visual-only speech perception. Paper presented at the 145th meeting of the Acoustical Society of America, New York, November 2004.
- Sommers, M. S. & Barcroft, J. (2004). Factors affecting acquisition of second language vocabulary. Paper presented at the 10th Mental Lexicon conference, Windsor, Ontario, August 2004.

Sommers, M.S., Spehar, B., & Tye-Murray, N. (2005). The effects of signal-to-noise ratio on auditory-visual integration: Integration and encoding are not independent. Paper presented at the 146th meeting of the Acoustical Society of America, November 2005.

Sommers, M.S., Tye-Murray, N. & Spehar, B. (2005). Auditory-visual speech perception by normal-hearing younger and older adults. Paper presented at the 147th meeting of the Acoustical Society of America, Vancouver May 2005.

Sommers, M.S. & Barcroft, J. (2006). Stimulus variability and the phonetic relevance hypothesis: Effects of variability in speaking style, fundamental frequency, and speaking rate on spoken word identification. Paper presented at the 147th meeting of the Acoustical Society of America.

Sommers, M.S. & Barcroft, J. (2006). Acoustic variability and learning new word forms. Paper presented at the 31st Boston University Conference on Language Development

Sommers, M.S., Tye-Murray, N. & Spehar, B. (2006). Auditory-visual integration and lipreading abilities of older adults with normal and impaired hearing. Paper presented at the 148th meeting of the Acoustical Society of America.

Sommers, M.S., Hale, S., Myerson, J., Rose, N., Tye-Murray, N., & Spehar, B. (2007). Age-related changes in spoken discourse comprehension. Paper presented at the 48th Annual meeting of the Psychonomic Society, Chicago, November 2007.

Sommers, M.S., Tye-Murray, N., Spehar, B., Hale, S., & Myerson, J. (2008). Auditory-visual spoken discourse comprehension in young and older adults. Poster presented at the Cognitive Aging Conference, Atlanta, GA, April 2008.

Sommers, M.S. and Barcroft, J. (2008). Further studies of acoustic variability and vocabulary learning. Paper presented at the Psychonomics Society Meeting, Chicago, IL.

Dissertation and Master's Committees

Doctoral dissertations (Committee Chair)

Elizabeth Gehr
Mckenzie Ballou
Julia Feld
Nathan Rose

Doctoral dissertations (core committee member)

Gayle Bronson-Waters
Hye Ji Choi (Social Work)
Rowena Gomez
Richard Hartman
Sandra Hessel
Ellen Hogan
Daniel Holt
Mark Law
Estelle-Marie Montgomery
Heather Oonk
Jay Pratt
Shannon Robertson
Daniel Roe
Myron Shekelle (Anthropology)
Brent Spehar (Otolaryngology)
Lori Veil
Melvin Yap
Cynthia Yonan
He Yuan (Otolaryngology)

Doctoral dissertations (outside reader)

Laura Baker
Amie Braman
Rebecca-Allen Burge
Martina Dyer
Valerie Rice
Judith Trussel
Linda VanDillen

Master's Committees (Chair)

Krista Taake

Masters/Qualifying exam committees

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Sherry Beaudrux
Kit Brady
Julia Feld*
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Chad Rogers
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