

CURRICULUM VITAE

Karen A. Doherty, Ph.D.

Syracuse University

Communication Sciences and Disorders

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EDUCATION

- 1994 Ph.D. University of Wisconsin—Madison
Dissertation: Spectral weights measured in listeners with sensorineural hearing loss
- 1987 M.S. University of Connecticut
- 1985 B.S. University of Rhode Island

PROFESSIONAL EXPERIENCE

- 2014 – present Chair, Department of Communication Sciences & Disorders,
Syracuse University
- 2014 – present Professor, Department of Communication Sciences & Disorders, Syracuse University
Faculty Affiliate, Integrated Learning Majors in Neuroscience 2013-present
Aging Studies Institute Member 2011 – present
Gerontology Faculty Affiliate, 2007 – present
Institute for Sensory Research Member, 2002 – present
Center for Aging and Policy Studies, 2009 – 2011
- 2007 – 2014 Associate Chair, Department of Communication Sciences & Disorders,
Syracuse University
- 2001 – 2014 Associate Professor, Department of Communication Sciences & Disorders,
Syracuse University
- 1996 – 2001 Assistant Professor, Department of Communication Sciences & Disorders,
Syracuse University
- 2000 – 2001 Visiting Assistant Professor, University of Rochester, School of Medicine and
Dentistry—Otolaryngology Division
- 1994 – 1996 Research Associate (Postdoctoral Fellow), Syracuse University

Karen A. Doherty

- 1993 – 1994 Research Assistant, Language Lab (Dr. Robin Chapman), University of Wisconsin, Waisman Center
- 1990 – 1994 Research Assistant, Auditory Behavioral Research Lab (Dr. Robert Lutfi), University of Wisconsin, Waisman Center
- 1989 – 1991 Doctoral Trainee, United States Department of Education Training Grant, University of Wisconsin–Madison
- 1987 – 1989 Clinical Audiologist, Wethersfield Hearing Center, Wethersfield, CT

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Doherty, K. A. & Desjardins, J. L. (2012). PHAST-R, Practical Hearing Aid Skills Test–Revised (Version 1) [software]. Retrieved from:
<http://www.ibridgenetwork.org/syracuse/phast-r-practical-hearing-aid-skills-test-an-objective-test-t>

PEER-REVIEWED PUBLICATIONS (* denotes student co-author mentored in my lab)

- *Calandruccio, L. Buss, E. & Doherty, K.A. (in press). The effects of presentation level on spectral weights for sentences. *Journal of the Acoustical Society of America*
- Mao, J., Koch, K.J., Doherty, K.A. & Carney, L.H. (2015). Cues for Diotic and Dichotic Detection of a 500-Hz Tone in Noise Vary with Hearing Loss. *Journal of the Association for Research in Otolaryngology*. Vol. 16, 507–521.
- Doherty KA and Desjardins JL (2015) The benefit of amplification on auditory working memory function in middle-aged and young-older hearing impaired adults. *Frontiers in Psychology*. 6:721. doi: 10.3389/fpsyg.2015.00721
- Bochner, J.H., Garrison, W.M. & Doherty, K.A. (2015). The NTID Speech Recognition Test: NSRT. *International Journal of Audiology*, Vol 54(7):490-8.
- *Desjardins, J. L. & Doherty, K. A. (2014). The effect of hearing aid noise reduction on listening effort in older hearing impaired adults. *Ear and Hearing*. Vol. 35 (6), 600-610.
- Doherty, K. A. (2014). The impact of hearing loss on listening effort and fatigue. *Ear and Hearing* Vol. 35, (6), 591.
- *Desjardins, J. L. & Doherty, K. A. (2013). Age-related changes in listening effort for various types of masker noises. *Ear and Hearing*. Vol. 34, (3), 261 – 272.

- *Doherty, K. A. & Desjardins, J. L. (2012). The Practical Hearing Aids Skills Test Revised (PHAST-R). *American Journal of Audiology*, Vol. 21, 100 – 105.
- *Desjardins, J. L. & Doherty, K. A. (2009). Do experienced hearing aid users know how to correctly use their hearing aids? *American Journal of Audiology*, 8, 1 – 8.
- Highlighted and reviewed in a French health magazine—Benoit, A. (January, 2010). Comment améliorer l'utilisation des aides auditives. *Audio infos*, 143, 54 – 57.
 - Cited by *The Hearing Journal Special Issue: A Guide to the Year's Best Reading in Audiology (June 2009)* as one of the best audiologic rehabilitation papers published in 2009.
- *Shi, L. & Doherty, K. A. (2008). Subjective and objective effects of fast and slow compression on the perception of reverberant speech in listeners with hearing loss. *Journal of Speech, Language and Hearing Research*, 51 (5), 1328 – 1340.
- *Calandruccio, L., & Doherty, K. A. (2008). Spectral weighting strategies for hearing-impaired listeners measured using a correlational method. *Journal of the Acoustical Society of America*, 123, 2367 – 2378.
- *Calandruccio, L., Doherty, K. A., Carney, L. H., & Kikkeri, H. (2007). Perception of temporally processed speech by hearing-impaired listeners. *Ear and Hearing*, 28 (4), 512 – 523.
- *Calandruccio, L., & Doherty, K. A. (2007). Spectral weighting functions for sentences measured by a correlational method. *Journal of the Acoustical Society of America*, 121, 3827 – 3836.
- *Shi, L. F., Doherty, K. A., Kordas, T. M., & Pellegrino, J. T. (2007). Short- and long-term hearing aid benefit and user satisfaction: A comparison between two fitting protocols. *Journal of American Academy of Audiology*, 18 (6), 482 – 495.
- Cited by *The Hearing Journal Special Issue: Honoring the Year's Best Articles (June 2008)* as one of the best hearing aid papers published in 2007.
- *Shi, L. F., Doherty, K. A., & Zwislocki, J. J. (2007). Aided loudness growth and satisfaction with everyday loudness perception in compression hearing-aid users. *Journal of American Academy of Audiology*, 18, 206 – 219.
- *Anzalone, M. C., Calandruccio, L., Doherty, K. A., & Carney, L. H. (2006). Determination of the potential benefit of time-frequency gain manipulation. *Ear and Hearing*, 27 (5), 480 – 492.
- *Shi, L., Carney L. H. & Doherty, K. A. (2006). Correction of the peripheral spatiotemporal response Pattern: A potential new signal processing strategy. *Journal of Speech, Language and Hearing Research*, 49, 848 – 855.
- Doherty, K. A. & Lutfi, R. A. (1999). Level discrimination of single tones in a broadband signal by normal-hearing and hearing-impaired listeners. *Journal of the Acoustical Society of America*, 105, 1831 – 1840.

Turner, C. W., Tanaka, C., Knapp, J., Kwon, B. & Doherty, K. A. (1998). Frequency weighting functions for NST speech materials as estimated by a correlational method. *Journal of the Acoustical Society of America*, 104, 1580 – 1585.

Huckins, S. C., Turner, C. W., Doherty, K. A., Fonte, M. M. & Szeverenyi, N. M. (1998). Functional magnetic resonance imaging of blood flow patterns in human auditory cortex in response to speech. *Journal of Speech, Language and Hearing Research*, 41, 538 – 548.

- Cited by *The Hearing Journal Special Issue: Honoring the Year's Best Articles* (1999) as one of the best hearing science papers published in 1998.

Doherty, K. A. & Lutfi, R. A. (1996). Spectral weights for overall level discrimination in listeners with sensorineural hearing loss. *Journal of the Acoustical Society of America*, 99, 1053 – 1058.

Lutfi, R. A., Doherty, K. A., & Oh, E. (1996). Psychometric functions for the discrimination of spectral variance. *Journal of the Acoustical Society of America*, 100, 2258 – 2265.

Doherty, K. A. & Turner, C. W. (1996). Use of a correlational method to estimate a listener's weighting function for speech. *Journal of the Acoustical Society of America*, 100, 3769 – 3773.

Lutfi, R. A., & Doherty, K. A. (1994). Effect of component-relative-entropy on the discrimination of simultaneous tone complexes. *Journal of the Acoustical Society of America*, 96, 3443 – 3450.

INVITED PUBLICATIONS AND PROCEEDINGS

Carney, L. H., Mao, J., Koch, K., & Doherty, K. A. (2013). Modeling detection of 500-Hz tones in reproducible noise for listeners with sensorineural hearing loss. ICA, 165th Proceedings of the Acoustical Society of America, 52nd Meeting of the Canadian Acoustical Association and the 21st International Congress on Acoustics. Montreal, Quebec, Canada, 2 – 7 June, 2013.

Doherty, K. A. (2011). Understanding the weighting strategies listeners use to perceive speech *Minnesota Speech-Language-Hearing Association (MSHA) Newsletter*.

Turner, C. W. & Doherty, K. A. (1997). Temporal masking and the “active process” in normal and hearing-impaired listeners. In W. Jesteadt (Ed.), *Modeling sensorineural hearing loss*. New Jersey: Lawrence Erlbaum Associates, Inc.

Lutfi, R. A. & Doherty, K. A. (1997). Modeling level discrimination of broadband signals by listeners with sensorineural hearing loss. In W. Jesteadt (Ed.), *Modeling sensorineural hearing loss*. New Jersey: Lawrence Erlbaum Associates, Inc.

PRESENTATIONS

Singh, J., Maldonado, C. C. & Doherty, K.A. (2016). Inaccuracy of Hearing Aid Software Adjustments, *AudiologyNOW Annual Conference*, Phoenix, Arizona.

- Maldonado, C. C. & Doherty, K.A. (2015). Difficulty hearing during the early stages of age-related hearing loss and motivation to take action. National Center for Rehabilitative Auditory Research Conference: Hearing Loss as a Public Health Concern. Portland, OR.
- Maldonado, C. C. & Doherty, K.A. (2015). Motivation for change during early stages of hearing loss. American Auditory Society Meeting, Scottsdale, AZ.
- Maldonado, C. C. & Doherty, K.A. (2015). Early age-related changes in high frequency hearing thresholds, hearing handicap, and motivation to take action. New York State Speech Language Hearing Association, Saratoga, NY.
- O'Flaherty, S., Doherty, K., Desjardins, J. (2013). The effect of hearing aids on memory test scores. New York State Speech Language Hearing Association, Saratoga, NY.
- Doherty, K.A., Morgan, A., Kordas, T., Kelley, R. & Isaacson, G. (2013). Hearing Healthcare in Ethiopia. American Speech-Language-Hearing Association Annual Conference, Chicago, IL.
- Doherty, K. A. & Desjardins, J. L. (2013). Advantages of using amplification for early age-related hearing loss. American Auditory Society Meeting, Scottsdale, AZ.
- Mao, J., Doherty, K. A., Koch, K. J. & Carney, L. H. (2013). Effects of sensorineural hearing loss on roving-level tone-in-noise detection. American Auditory Society Meeting, Scottsdale, AZ.
- Desjardins, J. L. & Doherty, K. A. (2013). Reducing listening effort in background noise with hearing aids. American Auditory Society Meeting, Scottsdale, AZ.
- Desjardins, J. L. & Doherty, K. A. (2012). Objective verification of hearing aid users' ability to use and care for their hearing aids. Academy of Rehabilitative Audiology Institute, Providence, RI.
- Doherty, K. A., Desjardins, J. L. & Hoyer, W. J. (2012). Effect of hearing aids on cognitive function, hearing handicap, and attitudes toward wearing hearing aids in the early stages of age-related hearing loss. International Adult Hearing Screening Conference, Cernobbio, Italy.
- Doherty, K. A., Bochner, J., Garrison, W., Richards, G., Holstad, K. & Sims, D. (2012). An adaptive test for the clinical measurement of speech recognition. American Academy of Audiology Annual Meeting, Boston, MA.
- Desjardins, J. L. & Doherty, K. A. (2012). The effect of hearing aid noise reduction on listening effort in older adults. American Academy of Audiology Annual Meeting, Boston, MA.
- Doherty, K. A., Desjardins, J. L., Pellegrino J., Kordas, T., & Kennedy, K. (2011). Are your clients incorrectly using their hearing aids? American Academy of Audiology Annual Meeting, Chicago, IL.
- Doherty, K. A., Fasulo, E., MacNeil, C., Pacioles, T., Tablang, M., Mark, K. & Brangman, S. (2011). Older hospital patients' use of assistive listening devices. American Academy of Audiology Annual Meeting, Chicago, IL.

- Doherty, K. A., Desjardins, J. L, Kordas, T., Kennedy, K. & Pellegrino, J. (2010). Cognitive and sensory function effects on manipulation of hearing instruments. American Speech-Language-Hearing Association Annual Conference, Philadelphia, PA.
- Desjardins, J. L. & Doherty, K. A. (2010). Age-related changes in listening effort for various types of masker noises. American Speech-Language-Hearing Association Annual Conference, Philadelphia, PA.
- Doherty, K. A. & Desjardins, J. L. (2010). Age effects on objective and subjective hearing aid outcome measures. American Academy of Audiology Annual Meeting, San Diego, CA.
- Doherty, K. A., Desjardins, J. L, Pellegrino, Kordas, T. & Kennedy, K. (2010). Clinical application of the practical hearing aid skills test. American Auditory Society Meeting, Scottsdale, AZ.
- Smith, R., Decker, S., Doherty, K. A. & Milczarski, (2010). Adding adaptation to cochlear implant processing. Abstracts of the 33rd Midwinter Research Meeting Association for Research in Otolaryngology, Anaheim, CA.
- Milczarski, B. A., Smith, R. L. & Doherty, K. A. (2009). Simulating hair-cell adaptation in cochlear implant processors. The Conference for Implantable Auditory Prosthesis, Lake Tahoe, CA.
- Desjardins, J. L, Jenner, A., Huckins, S. C. & Doherty, K. A. (2009). Functional neuroanatomy associated with auditory temporal processing in older adults. American Auditory Society, Scottsdale, AZ.
- Doherty, K. A., Sled, A. & Calandruccio, L (2009). Spectral weighting strategies for speech features at various presentation levels. American Auditory Society Meeting, Scottsdale, AZ.
- Doherty, K. A. & Desjardins, J. L. (2008). Age effects on listening strategies used to process time-compressed speech. American Speech-Language-Hearing Association Annual Conference, Chicago, IL.
- Desjardins, J. L., Calandruccio, L. & Doherty, K. A. (2008). Aging effects on the processing of spectral information in speech. American Auditory Society Meeting, Scottsdale, AZ.
- Doherty, K. A. & Desjardins, J. L. (2007). Relationship between practical and self-reported hearing aid knowledge. American Speech-Language-Hearing Association Annual Conference, Boston, MA.
- Sled, A. & Doherty, K. A. (2007). Presentation level effects on listeners' weighting strategies for speech. American Speech-Language-Hearing Association Annual Conference, Boston, MA.
- Doherty, K. A. & Desjardins, J. L. (2007). A novel test for assessment of practical hearing aid skills. American Auditory Society Meeting, Scottsdale, AZ.

- Calandruccio, L. & Doherty, K. A. (2007). Effect of overall level on spectral weighting strategies for speech. American Auditory Society Meeting, Scottsdale, AZ.
- Shi, L. & Doherty, K. A. (2006). Syllabic and dual compression hearing aid settings: A field study. American Speech-Language-Hearing Association Annual Conference, Miami, FL.
- Calandruccio, L. & Doherty, K. A. (2006). How listeners with & without hearing loss process sentences. American Speech-Language-Hearing Association Annual Conference, Miami, FL.
- Shi, L. & Doherty, K. A. (2006). Effect of dynamic compression characteristics on listeners' perception of reverberant speech. International Hearing Aid Research Conference. Lake Tahoe, CA.
- Calandruccio, L. & Doherty, K. A. (2006). Spectral weighting strategies for listeners with normal hearing. American Auditory Society Meeting, Scottsdale, AZ.
- Lalor, K. A., Calandruccio, L. & Doherty, K.A. (2006). How listeners use information in sentences versus vowel consonants. Mayfest, Syracuse University, Syracuse, NY.
- Shi, L., Doherty, K. A., Kordas, T. M. & Pellegrino, J. T. (2005). Short- & long-term hearing aid satisfaction using two Fitting Protocols. American Speech-Language-Hearing Association Annual Conference, San Diego, CA.
- Calandruccio, L., Kikkeri, H. N., Carney, L. H. & Doherty, K. A. (2005). Temporally processed speech—preference and intelligibility results of listeners with hearing impairment. Lake Ontario Auditory Neuroscience (LOAN) meeting. McMaster University, Hamilton, ON.
- Calandruccio, L., Doherty, K. A., Kikkeri, H. N. & Carney, L. H. (2005). Perception of temporally processed speech by hearing-impaired listeners. American Auditory Society Meeting, Scottsdale, AZ.
- Anzalone, M. C., Doherty, K. A. & Carney, L. H. (2005). Potential benefit to intelligibility of time-frequency gain manipulation. American Auditory Society Meeting, Scottsdale, AZ.
- Doherty, K. A., Shi, L., Kordas, T. M. & Pellegrino, J. T. (2004). Hearing aid fitting protocols: adjustments in amplification and patient satisfaction. American Speech-Language-Hearing Association Annual Conference, Philadelphia, PA.
- Carney, L. H., Shi, L. & Doherty, K. A. (2004). A hearing aid signal-processing scheme based on the temporal aspects of compression. 147th Meeting of the Acoustical Society of America, New York, NY.
- Shi, L., Carney, L. H. & Doherty, K. A. (2004). Correcting sound for the hearing-impaired: A physiologically-based signal-processing strategy. American Auditory Society Meeting, Scottsdale, AZ.

- Shi, L. & Doherty K. A. (2003). Loudness growth as a function of WDRC amplification. American Speech-Language-Hearing Association Annual Conference, Chicago, IL.
- Doherty, K. A. & Shi, L. (2003). Speech error patterns of normal-hearing and hearing-impaired listeners. New York State Speech Language Hearing Association Conference, Latham, NY.
- Doherty, K. A. & Duffus, L. (2002). Factors that contribute to age-related changes on speech in noise tasks. American Speech-Language-Hearing Association Annual Conference, Atlanta, GA.
- Doherty, K. A., Desjardins, J. L. & Huckins, S. C. (2001). Application of fMRI using central auditory processing tests. American Speech-Language-Hearing Association Annual Conference, New Orleans, Louisiana.
- Doherty, K. A. & Kordas, T. (2000). Hearing-impaired listeners' response times and patterns of speech errors. American Speech-Language-Hearing Association Annual Conference, Washington, DC.
- Kordas, T. & Doherty, K. A. (2000). Listening strategies used to process amplified speech. American Speech-Language-Hearing Association Annual Conference, Washington DC.
- Doherty, K. A. & Kordas, T. (2000). Aided and unaided use of spectral information in speech. American Auditory Society Meeting, Scottsdale, AZ.
- Doherty, K. A. (1999). Auditory processing strategies normal-hearing and hearing-impaired listeners use to perceive speech. Lake Ontario Hearing Meeting, Syracuse, NY.
- Doherty, K. A., Zubrowski, T. & Piskosz, M. (1999). Recognition of time-compressed speech. NYSSLHA Convention, Syracuse, NY.
- Doherty, K. A., Sproveri, L. & Zubrowski, T. (1999). Manipulation of spectral information in speech. American Auditory Society Meeting, Scottsdale, AZ.
- Doherty, K. A. (1998). Amplification: Advances in science and instrumentation. SUNY Health First Annual Summer Symposium Communication Disorder Unit, SUNY Health Science Center, Syracuse, NY.
- Doherty, K. A. & Hogan, C. A. (1997). Importance of speech bands as estimated from two methods. American Speech-Language-Hearing Association Annual Conference, Boston, MA.
- Hogan, C. A. & Doherty, K. A. (1997). A comparison of two methods that estimate how listeners use various frequency regions of speech. Hearing Aid Research and Development, National Institute of Health, Bethesda, MD.
- Page, A., Chapman, R. & Doherty, K. A. (1997). Screening tympanometry in Down Syndrome children and adults. American Academy of Audiology, Ft. Lauderdale, FL.

- Doherty, K. A. & Turner, C. W. (1996). Weighting strategies listeners use to perceive speech. American Speech-Language-Hearing Association Annual Conference, Seattle, WA.
- Turner, C. W. & Doherty, K. A. (1996). Frequency-weighting functions for speech recognition using a correlational approach. *Issues in Advanced Hearing Aid Research*, Lake Arrowhead, CA.
- Huckins, S. C., Turner, C. W., Doherty, K. A. & Szeverenyi, N. C. (1996). Functional magnetic resonance imaging of blood flow patterns in human auditory cortex in response to speech. Abstracts of the Nineteenth Midwinter Research Meeting Association for Research in Otolaryngology, St. Petersburg Beach, FL.
- Doherty, K. A. & Turner, C. W. (1995). Effect of hearing loss on the use of speech cues. *Hearing Aid Research and Development*, National Institute of Health, Bethesda, MD.
- Doherty, K. A. & Lutfi, R. A. (1995). Efficiency of selective listening by normal-hearing and hearing-impaired listeners. 129th Meeting of the Acoustical Society of America, Washington, DC.
- Lutfi, R. A. & Doherty, K. A. (1994). The role of component-relative entropy in the discrimination of simultaneous tone complexes. 127th Meeting of the Acoustical Society of America, Cambridge, MA.
- Doherty, K. A. & Lutfi, R. A. (1993). Spectral weighting functions in hearing-impaired listeners using COSS analysis. American Speech-Language-Hearing Association Annual Conference, Los Angeles, CA.
- Nellis, R. A., Doherty, K. A. & Pearson, K. (1992). Orphans, hearing loss, Wisconsin/Nicaragua: A partnership. American Speech-Language-Hearing Association Annual Conference, San Antonio, TX.
- Doherty, K. A. & Lutfi, R. A. (1992). Efficiency of analytic versus synthetic listening in spectral pattern discrimination. 124th Meeting of the Acoustical Society of America, New Orleans, LA.
- Doherty, K. A. & Lutfi, R. A. (1992). Pure-tone infograms measured in listeners with sensorineural hearing loss. Abstracts of the Fifteenth Midwinter Research Meeting Association for Research in Otolaryngology, St. Petersburg Beach, FL.
- Doherty, K. A., Barrett, K. & Goldstein, R. (1991). Effect of sample size on early event-related potentials. American Speech-Language-Hearing Association Annual Meeting, Atlanta, GA.
- Doherty, K. A. & Lutfi, R. A. (1991). Preliminary data on an auditory infogram. American Speech-Language-Hearing Association Annual Meeting, Atlanta, GA.

INVITED PRESENTATIONS AND MEDIA INTERVIEWS

Doherty, Karen. Interview with Linda Cohen. HealthLink on Air. WRVO Public Media (89.9 and 90.3 FM). www.upstate.edu/healthlinkonair. May 13, 2015.

Doherty, Karen. Interview with Amy Speech. Early Help for Age-Related Hearing Loss. Syracuse University Magazine. Fall/Winter 2015, Vol 32 (3).

Doherty, K. A., Desjardins, J. L. & Hoyer, W. J. (2012). Benefit of early intervention of age-related hearing loss. Academy of Rehabilitative Audiology Institute, Providence, RI.

Doherty, K. A. (2010). Can you hear me now? Changes in the hearing of older adults. SUNY Upstate Medical University, Syracuse, NY.

Doherty, K.A. (2009). Publication practices and responsible authorship. Syracuse University Graduate School, Syracuse, NY

Doherty, K. A. (2008). The Aging Ear. Summer Institute: Age and engagement in the classroom. Syracuse University, Syracuse, NY.

Doherty, K.A. (2007). Introduction to the American Auditory Society Lifetime Achievement award for Dr. Jozef Zwislocki, American Auditory Society Meeting, Scottsdale, AZ.

Doherty, K. A. (2000). Use of amplification for processing spectral information in speech. University of Maryland, College Park, MD.

Doherty, K. A. (1999). Strategies listeners use to process complex auditory signals: Potential application for fitting hearing aids. Bill Wilkerson Center Seminar, Vanderbilt University, Nashville, TN.

Doherty, K. A. (1998). How to succeed as a researcher in an academic environment. Research Town Meeting. American Speech-Language-Hearing Association Annual Conference, San Antonio, TX.

Doherty, K. A. (1998). Listening strategies used to process complex auditory signals. SUNY Health Science Center Neuroscience Seminar, Syracuse, NY.

Turner, C. W. & Doherty, K. A. (1995). Temporal masking and the "active process" in normal and hearing-impaired listeners. Modeling Sensorineural Hearing Loss—Boys Town Conference, Omaha, NE.

Lutfi, R. A. & Doherty, K. A. (1995). Modeling level discrimination of broadband signals by listeners with sensorineural hearing loss. Modeling Sensorineural Hearing Loss—Boys Town Conference, Omaha, NE.

HONORS AND AWARDS

Karen A. Doherty

Nominated by College of Arts and Sciences for Laura J. and L. Douglas Meredith Professorship for Teaching Excellence, Syracuse University (2011)

Excellence in Graduate Education Faculty Recognition Award, Syracuse University (2007)

National Student Speech-Language-Hearing Association local chapter Outstanding Faculty Member Award, Syracuse University (2002)

Rotary International Group Study Exchange Scholarship, Indonesia (1993)

Partners of the Americas Meritorious Service Award (1991)

Department of Education Traineeship, University of Wisconsin–Madison (1989 – 1991)

Department of Health and Human Services Fellowship, University of Connecticut (1987)

GRANTS

Doherty, K. A. (PI). Cross-Sector Opportunity Grant, Project Advance (\$4,000) *“Preparation for women faculty to excel at the interface of interdisciplinary, cross-sector (academia-industry-community) research.”* (2012)

Doherty, K. A. (PI). Marvin and Carol Schneller Fund (Syracuse University) (\$13,000) *“Hearing Aid Fittings for Older Adults: Benefit of PHAST-R and Cognitive Measures.”* (2011 – 2012)

Bochner (PI) and Doherty, K. A. (Co-PI). Rochester Institute of Technology (\$8,000) *“Adaptive Speech Recognition Test (ASRT) Phase II.”* (2011 – 2012)

Doherty, K. A. (PI) and Hoyer (Co-PI). National Institutes of Health (NIH/NIA) (\$99,544) *“Early Intervention of Age-related Hearing Loss.”* Grant P30 (2011 – 2012)

Doherty, K. A. (PI). Capita Foundation Annual Hearing Research Grant (\$15,000) *“Improving communication for older hospital patients with assistive listening devices.”* (2009 – 2011)

Wolf, D. (PI) and Doherty, K. A. (Co-PI). National Institutes of Health (NIH/NIA) (\$1,150,763) *Center for Aging and Policy Studies, Center for Policy Research at the Maxwell School of Citizenship and Public Affairs Grant #P30AG034464* (2009 – 2014)

Doherty, K. A. (PI). Gerontology Center Summer Seed Grant, Syracuse University (\$5,000) *“The Effect of Age on How Listeners Process Speech.”* (2007)

Doherty, K. A. (PI). National Organization of Hearing Research (NOHR) (\$20,000) *“Sparse Spectral Processing for Listeners with Hearing Loss.”* (2006)

Karen A. Doherty

Doherty, K. A. and Carney, L. (Co-PIs). National Institutes of Health (NIH/NIDCD) (\$286,518) “*Physiologically-based signal processing schemes.*” Grant # R21 DC006057 (2003 – 2004)

Doherty, K. A. (PI). Marvin and Carol Schneller Fund, Syracuse University (\$4,000) “*Relationship Between Hearing Aid Knowledge and Hearing Aid Satisfaction.*” (2003)

Doherty, K. A. (PI). Deafness Research Foundation (DRF) (\$20, 000) “*Effects of age on using spectral information in speech.*” (2001 – 2002)

Doherty, K. A. (PI). Vision Grant: interdisciplinary teaching, Syracuse University, (\$12,600) (1999 – 2000)

Verillo, R. (Project Director) and Doherty, K. A. (Co-PI) and. National Institutes of Health (NIH/NIDCD)—Program project grant (\$4,500,000) “*Intensity Effect in the Auditory and Tactile Systems.*” (1996 – 2001)

Doherty, K. A. and Smith, R. (Co-PIs). SSI International (\$20,000) “*Speech Recognition of Time-Compressed Speech.*” (1998 – 1999)

Doherty, K. A. (PI). National Organization of Hearing Research (NOHR) (\$10,000) “*Exploration of a New Method for Maximizing the Benefit of Hearing Aids.*” (1998)

Doherty, K. A. (PI). National Institutes of Health (NIH/NIDCD) F32 Postdoctoral grant (\$21,334) “*Weighting Strategies Used to Perceive Speech.*” Grant # F32 DC00212-01A1 (1996 – 1997)

Doherty, K. A. (PI). American Speech-Language-Hearing Foundation New Investigator Award (\$4,000) “*Weighting Strategies Listeners Use To Perceive Speech.*” (1995)

GRANT CONSULTANT

Doherty, K. A. (consultant) and Carney, L. (PI). National Institutes of Health (NIH/NIDCD) R01. “*Developing and testing models of the auditory system with & without hearing loss.*” (2010 – 2015)

Doherty, K. A. (consultant) and Vander Werff, K. (PI). National Institutes of Health (NIH/NIDCD) R03. “*Neural responses to speech in the central auditory system following brain injury.*” (2010 – 2013)

TEACHING EXPERIENCE

1995 – present Syracuse University, Communication Sciences & Disorders:
 Advanced Clinical Audiology
 Hearing Aids I
 Hearing Aids II
 Fundamentals of Hearing

Psychoacoustics
Speech Perception and Psychoacoustics

1992 – 1993 University of Wisconsin–Madison: Department of Communicative Disorders
Introduction to Audiology
Introduction to Communicative Disorders

MASTER’S THESES

Director: Sled, A. L., “Presentation level effects on listeners’ weighting strategies for speech,”
Communication Sciences and Disorders (2007).

Co-director: Kikkeri, H., “Design and analysis of a neural-coding based speech-processing strategy
for hearing aids,” Biomedical and Chemical Engineering (2005).

Director: Desjardins, J. L., “The relationship among fMRI, temporal processing and the aging
auditory system,” Communication Sciences and Disorders (2002).

Committee Member: Jackson, M., “Developmental changes in multifrequency tympanometry,”
Communication Sciences and Disorders (2000).

Director: Kordas, T., “The relationship between hearing aid benefit and the use of spectral
information in speech,” Communication Sciences and Disorders (1999).

Committee Member: Hancur, C., “Effect of ear canal debris on otoacoustic emission measures,”
Communication Sciences and Disorders (1999).

DOCTORAL DISSERTATIONS

Director: Desjardins, J. L., “Age-related changes in listening effort for various types of masker
noises” (2011). Communication Sciences and Disorders—Dissertations and Theses.
http://surface.syr.edu/csd_etd/14
*Awarded the Doctoral Prize, Excellence in Research at the Graduate Level, College of Arts and
Sciences, Syracuse University (2011).*

Director: Calandruccio, L., “Spectral weighting strategies for sentences measured by a correlational
method” (2007). Communication Sciences and Disorders—Dissertations and Theses.
http://surface.syr.edu/csd_etd/2
*Awarded the Doctoral Prize, Excellence in Research at the Graduate Level, College of Arts and
Sciences, Syracuse University (2007).*

Committee Member: Davidson, S., “Detection of Tones in Reproducible Noise: Psychophysical and Computational Studies of Stimulus Features and Processing Mechanisms” (2007). Biomedical and Chemical Engineering—Dissertations and Theses. http://surface.syr.edu/bce_etd/6/

Director: Shi, L. F., “Effect of dynamic compression characteristics on aided perception of reverberant speech” (2006). Communication Sciences and Disorders—Dissertations and Theses. http://surface.syr.edu/csd_etd/3

Committee Member: Nelson, P., “Physiological Correlates of temporal Envelope Perception” (2006). Biomedical and Chemical Engineering—Dissertations and Theses. http://surface.syr.edu/bce_etd/15/

Co-director: Anzalone, M., “Time-frequency gain manipulation for noise-reduction in hearing aids: Ideal and phase-opponent detectors” (2005). Biomedical and Chemical Engineering—Dissertations and Theses. http://surface.syr.edu/bce_etd/19/

Committee Member: Fitzgerald, T., “Examination of the 2f2-f1 distortion-product otoacoustic emission in normal-hearing and hearing-impaired ears and its potential for use in the detection of hearing loss” (2001). Communication Sciences and Disorders—Dissertations and Theses. http://surface.syr.edu/csd_etd/6/

Committee Member: Nezelek, K., “Minimum Variability of the Vibratory Patterns of the Vocal Folds During Vowel Production in Adults with healthy Vocal Folds: An exploratory Study” (2001). Dissertations and Theses. http://surface.syr.edu/csd_etd/5/

PROFESSIONAL SERVICE

2016	Special Emphasis Panel/Scientific Review Group Member, Healthcare Delivery and Methodologies AREA Review. National Institutes for Health (NIH R15 grants).
2007 – 2014	Section Editor at-Large, <i>Ear and Hearing</i>
2009 – 2012	Honors Committee Member, American Academy of Audiology
2011	Grant Review Committee Member, American Speech, Language Hearing Associations, Students Preparing for Academic & Research Careers (SPARC)
2010 – 2011	Mentor, Mentoring Academic Research Careers (MARC), Mentor to Assistant Professor, University of Texas
2005 – 2007	Grant Review Committee Member, Department of Veteran Affairs: Scientific Review and Evaluation Board Committee Member
2003	Mentor, ASHA Student Research Travel Shadow Mentor
2002 – 2006	Guest Section Editor, <i>Ear and Hearing</i>

Karen A. Doherty

- 1999 – 2000 Consultant on a series of five articles on hearing loss and hearing aids published in the Sunday Herald Journal, Syracuse, NY
- 1996 – 2003 Editorial Consultant for Hearing Section, Journal of Speech and Hearing Research
- 1995 – 1996 Audiology Consultant, SUNY, Health Science Center at Syracuse, NY. Comprehensive health study on premature infants
- 1994 – Present Adhoc Reviewer for:
Ear and Hearing
American Journal of Audiology
Journal of Speech and Hearing Research
Journal of the Acoustical Society of America
International Journal of Audiology
Experimental Aging Research

INTERNATIONAL EDUCATION AND SERVICE OUTREACH

- 2012 – present Board Member, Preventing Hearing Loss in Ethiopia
- 2012 Member Medical Team, Ethiopia Medical/Educational Mission, Healing the Children
- 1993 Member, Ambassador of Good Will, Indonesia, Rotary International
- 1991 Member Medical Team, Nicaragua Health Mission. Grant for Orphans in Nicaragua, Partners of the Americas, Washington, D.C.

DEPARTMENTAL SERVICE

Department Chair, Communication Sciences and Disorders 2014- present

Member, Dept. of Communication Sciences and Disorders Promotion and Tenure Committee, 2014

Admissions Committee Member 2014

Chair, Faculty Search Committee, Dept. of Communication Sciences and Disorders, 2013 – 2014

Associate Chair, Dept. of Communication Sciences and Disorders: Developed the following Programs and Degrees:

 Au.D. – 3 year program (2005)

 Au.D. – 4 year program (2008)

 Au.D./Ph.D. – Dual degree program (2012)

Chair, Faculty Search Committee, Dept. of Communication Sciences and Disorders, 2012 – 2013

Karen A. Doherty

Graduate Admissions Committee, Department of Communicative Disorders 1996 – 2008, 2011, 2013 (Chair 1998, 2001, 2002, 2008)

Member Space Committee for new Department and Clinic space, Dept. of Communication Sciences and Disorders Space, 2010 – 2014

Member, Dept. of Communication Sciences and Disorders—Department Bylaws Committee, 2002 – present

Member, Au.D. Intensive Examination Committee, 2000 – present

Chair, Third year Assistant Professor Review Committee, 2011

Member, Speech Language Pathology Supervisor Search Committee, Dept. of Communication Sciences and Disorders, 2011

Chair, Promotion and Tenure Committee, 2011

Member, Promotion and Tenure Committee, 2011

Chair, Dept. of Communication Sciences and Disorders Chair Review Committee, 2010

Chair, Faculty Search Committee, Dept. of Communication Sciences and Disorders, 2008

Member, Syracuse Hearing Center Committee, 2006 – 2007

Faculty Mentor to an Assistant Professor, 2005 – 2010

Chair, Audiology Comprehensive Examination Committee, 1997 – 1999

UNIVERSITY SERVICE

Chancellor's Academic Strategic Plan Implementation Working Group-Veterans & Military Connected Communities 2015- present

Neuroscience Executive Committee Member 2014- present

Neuroscience Student Travel Awards Committee (Chair) 2014-2015

Graduate Representative/Chair of Dissertation Committee: Kreher, Y., "Crossing from Hearing to Deaf Worlds: Hearing Border Crossers as Participatory Designers in Healthcare Instruction," 2013

COLLEGE SERVICE

Member, Executive Committee of the Interdisciplinary Neuroscience Group 2013- present

Karen A. Doherty

Faculty Affiliate, Interdisciplinary Graduate Neuroscience Concentration, 2013 – present

Faculty Affiliate, Integrated Learning Majors in Neuroscience, 2012 – present

Faculty Affiliate, Hill Collaboration Program, 2011 – present

Freshmen Forum Leader, 2008

Member, School of Education Teaching Committee, 2000 – 2001

Member, School of Education Scholarship Committee, 1998 – 2000

Member, School of Education Research Apprenticeship Committee, 1996 – 1998; 2000 – 2001

LICENSURES AND CERTIFICATIONS

Certificate of Clinical Competence in Audiology (CCC-A), 1988 – present

New York State Audiology License, 1994 – present

New York State Hearing Aid Dispensing License, 1994 – present

PROFESSIONAL AFFILIATIONS

Academy of Rehabilitative Audiology

American Speech-Language-Hearing Association: *Special Interest Group in Gerontology*

Acoustical Society of America

American Auditory Society

Central New York Speech-Language-Hearing Association

Ida Institute

International Society of Audiology