**CURRICULUM VITAE**

**Ian Andrew Harrington**

Augustana College

Department of Psychology

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**I. Education and Professional History**

**A. Education**

2000-2002 Ph.D., University of Toledo Major: Psychology

Dissertation: “Effect of auditory cortex lesions on discriminations of frequency change, amplitude change, and sound location by Japanese macaques (*Macaca fuscata*)”

1997-1999 M.A., University of Toledo Major: Psychology

Thesis: “Can sensory deficits explain the aphasia-like behavior of Japanese macaques (*Macaca fuscata*)?”

1992-1997 B.Sc. (Hons.), Dalhousie University Major: Psychology

**B. Professional and Academic Positions**

2011 - 2012 President, Sigma Xi, John Deere Chapter.

2011 - Associate Professor: Psychology Department, Augustana College.

2010 - 2011 President-elect, Sigma Xi, John Deere Chapter.

2010 - Director, Program in Neuroscience, Augustana College.

2005 - 2011 Assistant Professor: Psychology Department, Augustana College.

2004 - 2005 Adjunct Assistant Professor: Psychology Department, Albion College.

2002 - 2005 Postdoctoral Research Fellow: Kresge Hearing Research Institute, University of Michigan (Dr. John C. Middlebrooks).

1997 - 2002 Graduate Research Assistant: Laboratory of Comparative Hearing, University of Toledo (Dr. Henry E. Heffner).

1995 - 1997 Undergraduate Research Assistant: Hearing Laboratory, Dalhousie University (Dr. Dennis P. Phillips).

1995 - 1996 Undergraduate Research Assistant: Cognitive Electrophysiology Laboratory, Dalhousie University (Dr. John F. Connolly).

**C. Awards, Honors and Fellowships**

**Academic**:

2003 - 2005 Individual Postdoctoral Research Fellowship, Kresge Hearing Research Institute, NIH (F32 DC006113-01).

2002 - 2003 Institutional Postdoctoral Research Traineeship, Kresge Hearing Research Institute, NIH (T32 DC00011-24).

2002 Robert R. Buell Memorial Achievement Award for Excellence in the Physical, Biological, and Social Sciences, University of Toledo.

2001 Graduate Student Association Award for Outstanding Doctoral Research, University of Toledo.

1997 - 2002 Graduate Research Assistantship, University of Toledo.

**Travel**:

1998 Junior Scientist Travel Fellowship: Carnegie Symposium for Cognition, Pittsburgh, PA.

2000 National Academy of Sciences Travel Fellowship: Colloquium for Auditory Neuroscience, Irvine, CA.

2002 Association for Research in Otolaryngology (ARO) Graduate Student/Post-doctoral Fellow Travel Award: Midwinter Meeting, St. Petersburg, FL.

**D. Service**

**Society Memberships**

2009 - 2010 Society for the Teaching of Psychology (STP)

2008 - Sigma Xi, John Deere Chapter

2007 - Faculty for Undergraduate Neuroscience (FUN)

2007 Midwestern Psychological Association (MPA)

1998 - Association for Research in Otolaryngology (ARO), Associate Member.

1998 - Society for Neuroscience (SfN), Associate Member.

**Committees**

2012 - Student Policies Committee, Augustana College.

2012 Judge of Graduate Student Presentations at the annual meeting of the Chicago Society for Neuroscience.

2011 Institutional Animal Care and Use Committee (alternate), Augustana College.

2011 - Faculty Senate, Augustana College (associate level).

2010 - Faculty Research Committee, Augustana College.

2008 - 2010 Institutional Animal Care and Use Committee (alternate), Augustana College.

2007 - 2009 Faculty Senate, Augustana College (assistant level).

2007 - 2010 Benefits Committee, Augustana College.

2006 - 2010 Faculty Welfare Committee, Augustana College.

2006 - 2008 Student Policies Committee, Augustana College.

2006 - 2010 Library/Bookstore Committee, Augustana College.

2006 Teacher Education Committee, Augustana College.

2006 Celebration of Learning Organizing Committee, Augustana College.

2002 - 2003 Program in Hearing and Chemical Senses Admissions Committee, Kresge Hearing Research Institute, University of Michigan.

2002 - 2003 Invited Speaker Luncheon Coordinator, Kresge Hearing Research Institute, University of Michigan.

1999 - 2000 Behavioral Science Graduate Student Representative, University of Toledo.

1995 - 1996 Secretary, Dalhousie Association of Psychology Students, Dalhousie University.

1995 - 1996 Human Subjects Ethics Committee, Dalhousie University.

**Reviewer**

*Journal of Neuroscience,* the *European Journal of Neuroscience, Neuroscience, Teaching of Psychology* and *Hearing Research* (ad hoc).

**II. Teaching Experience**

**A. Teaching**

2005 - Assistant Professor: *Introductory* *Psychology* (100), *Brain & Behavior* (248), *Sensation & Perception* (343), *History of Psychology* (410), *Senior Inquiry* (452-3)

2004 Adjunct Assistant Professor: *Introductory* *Psychology* (101), Albion College.

2004 - 2005 Adjunct Assistant Professor: *Sensation & Perception* (243), Albion College.

1999, 2000 Graduate Instructor: *Introduction to Psychobiology* (2600), University of Toledo.

1996 - 1997 Teaching Assistant: *Advanced General Psychology*, Dalhousie University.

1995 - 1996 Undergraduate Student Instructor: *Advanced General Psychology*, Dalhousie University.

**B. Lectures & Symposia**

2012 “Magic and the Brain”, Sigma Xi, Science Café, NOVA Science Now, Ask the Experts Series, St. Ambrose University.

2010 “Finding a place for space in the auditory forebrain: Behavioral and physiological studies of auditory space perception,” Keynote address at Sigma Xi, John Deere Chapter, Induction Banquet.

2010 “Teaching and assessing scientific literacy in psychology”, contributor to symposium at Best Practices: Assessing Teaching and Learning in Psychology conference (contributors also include Dan Corts, Mark Krause, Erin Stoffel, and Mark Vincent), Atlanta, GA.

2010 “Neuroscience at Augustana”, interview with Don Wooten on WVIK’s, *Saturday Morning Live*, with Erin Stoffel.

2010 “Bird Brains”, Sigma Xi, Science Café, NOVA Science Now, Ask the Experts Series, St. Ambrose University.

2004 “Why is spatial information so ubiquitous in the auditory cortex?” 2nd Annual Lawrence-Hawkins Lectures, Kresge Hearing Research Institute, University of Michigan.

2003 “Auditory cortex and sound localization: Linking behavior and neurophysiology,” 1st Annual Lawrence-Hawkins Lectures, Kresge Hearing Research Institute, University of Michigan.

**III. Scholarship**

**A. Publications**

**Academic**

Harrington, I. A. (1999). Can sensory deficits explain the aphasia-like behavior of Japanese macaques (*Macaca fuscata*)? Master’s thesis, University of Toledo.

Harrington, I. A. (2002). Effect of auditory cortex lesions on discriminations of frequency change, amplitude change, and sound location by Japanese macaques (*Macaca fuscata*). Doctoral dissertation, University of Toledo.

**Articles**

Phillips, D. P., Hall, S. E., Harrington, I. A., & Taylor, T. L. (1998) Central auditory gap detection: a spatial case. *The Journal of the Acoustical Society of America*, *103*, 2064-2068.

Harrington, I. A., Heffner, R. S., & Heffner, H. E. (2001). An investigation of sensory deficits underlying the aphasia-like behavior of macaques with auditory cortex lesions. *Neuroreport*, *12*, 1217-1221.

Heffner, H. E., & Harrington, I. A. (2002). Tinnitus in hamsters following exposure to intense sound. *Hearing Research*, *170*,83-95.

Stecker, G. C., Harrington, I. A., & Middlebrooks, J. C. (2005). Location coding by opponent neural populations in the auditory cortex. *Public Library of Science: Biology*, *3*, 520-528.

Stecker, G. C., Harrington, I. A., Macpherson, E. A., & Middlebrooks, J. C. (2005). Spatial sensitivity of neurons in the ‘dorsal zone’ (area DZ) of cat auditory cortex. *Journal of Neurophysiology*, *94*, 1266-1279.

Harrington, I. A., Stecker, G. C., Macpherson, E. A., & Middlebrooks, J. C. (2008). Spatial sensitivity of neurons in the anterior, posterior, and primary fields of cat auditory cortex. *Hearing Research, 240,* 22-41.

**Books & Chapters**

Tottenham, N. & Harrington, I. (2000). *Brain, Mind and Behavior: Instructor’s Resource Manual and Test Bank*. Worth Publishers, New York, NY.

Middlebrooks, J. C., Harrington, I. A., Macpherson, E. A., & Stecker, G. C. (2008). Sound localization and the auditory cortex. In: Allan I. Basbaum, Akimichi Kaneko, Gordon M. Shepherd, Gerald Westheimer, Eds., *The Senses: A Comprehensive Reference*, Vol. 3, Audition, Peter Dallos, Donata Oertel (eds.) San Diego: Academic Press, pp. 781-806.

**Abstracts**

Phillips, D. P., Hall, S. E., Harrington, I. A., & Taylor, T. L. (1998) Central auditory gap detection: a spatial case. *Association for Research in Otolaryngology Abstracts*, *21*, 688.

Harrington, I. A., & Heffner, H. E. (1998). Can sensory deficits account for aphasia-like behavior in Japanese macaques after lesions of auditory cortex? *Society for Neuroscience Abstracts*, *24*, 157.14, 401.

Harrington, I. A. (1999). Central auditory gap detection in the Japanese macaque (*Macaca fuscata*). *Association for Research in Otolaryngology Abstracts*, *22*, 117.

Harrington, I. A., & Heffner, H. E. (2000). Bilateral auditory cortex lesions abolish the ability to determine if a sound is changing in frequency. *Association for Research in Otolaryngology Abstracts*, *23*, 302.

Harrington, I. A., & Heffner, H. E. (2000). Effect of auditory cortex lesions on the discrimination of frequency change. *National Academy of Sciences: Colloquium for Auditory Neuroscience*.

Harrington, I. A., & Heffner, H. E. (2001). Effect of auditory cortex lesions on the discrimination of frequency change: Sinusoidal frequency modulation. *Association for Research in Otolaryngology Abstracts*, *24*, 998.

Heffner, H. E., & Harrington, I. A. (2002). Tinnitus in hamsters following exposure to intense sound. *Association for Research in Otolaryngology Abstracts*, *25*, 796.

Harrington, I. A., & Heffner, H. E. (2002). A behavioral investigation of “separate processing streams” within macaque auditory cortex. *Association for Research in Otolaryngology Abstracts*, *25*, 456.

Harrington, I. A., & Heffner, H. E. (2003). Intensity discrimination following cortical lesions in macaques: Detection of increments, decrements, and amplitude modulation. *Association for Research in Otolaryngology Abstracts*, *26*, 924.

Harrington, I. A., Stecker, G. C., Macpherson, E. A., & Middlebrooks, J. C. (2003). Effects of stimulus probability on spatial sensitivity in cat auditory cortex. *Society for Neuroscience Abstracts*,488.18.

Stecker, G. C., Harrington, I. A., Macpherson, E. A., & Middlebrooks, J. C. (2003). Spatial sensitivity of neurons in the ‘dorsal zone’ (area DZ) of cat auditory cortex. *Society for Neuroscience Abstracts*,183.4.

Heffner, H. E. & Harrington, I. A. (2004). Auditory cortex lesions affect spatial release from masking. *Association for Research in Otolaryngology Abstracts*, *27*, 147.

Stecker, G. C., Harrington, I. A., Macpherson, E. A., & Middlebrooks, J. C. (2004). Evaluation of a limited-channel model of spatial coding in auditory cortex. *Association for Research in Otolaryngology Abstracts*, *27*, 148.

Harrington, I. A., Stecker, G. C., Macpherson, E. A., & Middlebrooks, J. C. (2004). Sensitivity of neurons in cat auditory cortex to recent stimulus history. *Society for Neuroscience Abstracts*, 529.5.

Macpherson, E. A., Stecker, G. C., Harrington, I. A., & Middlebrooks, J. C. (2004). Non-linear processing of spectral cues for sound localization in areas DZ and PAF of cat auditory cortex. *Society for Neuroscience Abstracts*, 529.6.

Harrington, I. A., Stecker, G. C., Macpherson, E. A., & Middlebrooks, J. C. (2005). Spatial sensitivity in the anterior field (AAF) of cat auditory cortex. *Association for Research in Otolaryngology Abstracts,* 996.

Malhotra, S., Hall, A. J., Stecker, G. C., Harrington, I. A., Macpherson, E. A., Middlebrooks, J. C., & Lomber, S. G. (2005). Sound localization deficits during unilateral or bilateral reversible deactivation of cat primary auditory cortex and/or the dorsal zone. *Association for Research in Otolaryngology Abstracts,* 118.

Macpherson, E. A., Harrington, I. A., Malhotra, S., Stecker, G. C., Lee, C. C., Lomber, S. G., & Middlebrooks, J. C. (2005). Effects of cryogenic deactivation on neural activity in cat auditory cortex. *Society for Neuroscience Abstracts*, 615.8.

Macpherson, E. A., Harrington, I. A., Stecker, G. C., Lee, C. C., & Middlebrooks, J. C. (2006). Contribution of binaural difference cues to azimuth tuning of neurons in cat auditory cortex. *Association for Research in Otolaryngology Abstracts,* 174.

Stecker, G. C., Harrington, I. A., Macpherson, E. A., & Middlebrooks, J. C. (2006). Local processing modifies spike timing in non-primary auditory cortex. International Conference on the Auditory Cortex: The Listening Brain.

Macpherson, E. A., Harrington, I. A., Stecker, G. C., Lee, C. C., & Middlebrooks, J. C. (2007). Do elevation-sensitive neurons in cat auditory cortex encode space or merely spectrum? *Association for Research in Otolaryngology Abstracts,* 422.

Lee, C. C., Macpherson, E. A., Harrington, I. A., & Middlebrooks, J. C. (2007). Task-dependence of spatial sensitivity in the dorsal zone (area DZ) of cat auditory cortex. *Association for Research in Otolaryngology Abstracts,* 425.

Harrington, I. A. (2008). Between-ear gap detection and the perception of dichotic continuity. *Auditory Perception, Cognition, and Action Meeting*, Chicago, IL.

Harrington, I. A. (2010). Perceptual discontinuities between sequential sounds differing in ear of presentation. *Association for Research in Otolaryngology Abstracts*.

Harrington, I. A. & Storl, H. (2010). Neuroscience, the philosophy of mind, and the liberal arts: Using learning communities to promote interdisciplinary learning. *Society for Neuroscience Abstracts.*

Harrington, I. A. (2012). Can you change a student’s mind in a course about the brain? Changes in theoretical orientation following a 10-week introduction to biological psychology. *Society for Neuroscience Abstracts.*

**Student Presentations**

Bychowski, M. E., Day, C. G., Thamilavel, S. & Gillespie, Y. L. (2006). Mind the gap: Within- and between-channel gap detection by human listeners. Poster presented at Celebration of Learning, Augustana College.

Boulton, A. (2006). Mental rotation: The effect of reference frames and priming. Poster presented at Tri-State Undergraduate Psychology Research Conference, Loras College, Dubuque, IA. [Also presented at Augustana College Research Fair, fall 2006]

Clinton, J. A., Murphy, R. C., Bowling, P. J., Albrecht, K. M., Thamilavel, S., Kaseeska, K. R., & Steed, A- .J. (2007). In one ear, then in the other: Effects of stimulus bandwidth on between-channel gap-detection abilities. Poster presented at Celebration of Learning, Augustana College.

Steed, A-. J., Kaseeska, K. R., Thamilavel, S., Albrecht, K. M., Bowling, P. J., Murphy, R. C., & Clinton, J. A. (2007). What’s sex got to do with it? Sex differences in between-channel gap-detection abilities. Poster presented at Celebration of Learning, Augustana College.

Jacques, J. (2007). The spirit to heal: Shamanic and biomedical perspectives on the “sacred disease,” epilepsy. Honors capstone presented at Celebration of Learning, Augustana College.

Clinton, J. A., Bowling, P. J., & Steed, A-.J. (2007). Between-channel gap detection in naïve listeners: Sex differences. Poster presented at Tri-State Undergraduate Psychology Research Conference, Rockford College, Rockford, IL.

Bowling, P. J., Clinton, J. A., & Steed, A.-J. (2008). Between-channel gap detection: Effects of stimulus properties, sex, and listener experience. Poster presented at MidBrains Undergraduate Neuroscience Conference, Macalester College, St. Paul, MN. [Also presented at Celebration of Learning, spring 2008]

Clinton, J.A., Bowling, P.J., Steed, A-J, Wissing, K., Crawford, T., Lenz, K., Russell, C., & White, W. (2008). Perceptions of binaural auditory continuity. Poster presented at MidBrains Undergraduate Neuroscience Conference, Macalester College, St. Paul, MN. [Also presented at Celebration of Learning, spring 2008]

Monson, S. (2008). The benefit of visual cues to speech perception. Communication Sciences and Disorders capstone project presented at Celebration of Learning, Augustana College.

White, W. (2008). High-frequency auditory sensitivity in college students. Poster presented at Celebration of Learning, Augustana College.

Moore, H. A., Bowling, P. J., & Clinton, J. A. (2008). The relationship between dichotic continuity and between-ear gap detection. Poster presented at Tri-State Undergraduate Psychology Research Conference, University of Wisconsin, Platteville, Platteville, WI.

Morton, A. (2009). The Disney-fication of sex roles: A re-evaluation of the Bem Sex Role Inventory (BSRI) in College Students. Poster presented at Celebration of Learning, Augustana College.

Masters, M. A. (2009). Discriminating the durations of sound intervals presented to one or both ears. Poster presented at Tri-State Undergraduate Psychology Research Conference, Augustana College, Rock Island, IL.

Musolf, A. L. (2010). Central masking of perceptual discontinuities between dichotic sequences of noise bursts. Poster presented at Celebration of Learning, Augustana College.

Musolf, A. L., Masters, M. A., & Devore, J. (2010). Do duration discrimination thresholds reflect the temporal (in)fidelity of dichotic listening mechanisms? Poster presented at Celebration of Learning, Augustana College.

Fisher, C. (2010). Zen meditation training induced changes in electroencephalographic measures of brain activity: A preliminary case report. Poster presented at Celebration of Learning, Augustana College.

Carlson, J., Wilkinson, M., & Wiese, P. J. (2011). Electrophysiological correlates of musical dissonance and harmonic complexity: Preliminary findings. Poster presented at MidBrains Undergraduate Neuroscience Conference, St. Olaf College, Northfield, MN. [Also presented at Celebration of Learning, Augustana College]

Carter, C., Adam, S., & Gough, R. (2012). Electrophysiological correlates of moral reasoning. Poster presented at Celebration of Learning, Augustana College.

Keil, S., Lattanzio, A., Steel, J., & Strever, S. (2012). Are we actually empathetic? Relationship between and self-reported personality measures and physiological arousal produced by images of others experiencing discomfort. Poster presented at Celebration of Learning, Augustana College.

McVey, A. (2012). Foundations of aesthetic experience. Honors capstone presented at Celebration of Learning, Augustana College.