

Matthew B. Winn, Au.D, Ph.D.

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Education

Doctor of Philosophy (Ph.D) <i>Hearing and Speech Sciences</i>	University of Maryland	2011
Doctor of Audiology (Au.D)	University of Maryland	2010
Bachelor of Arts (B.A.) <i>Psychology and Philosophy,</i> <i>Minor in Linguistics</i>	University of Delaware	2005

Publications

- Winn, M.B., Chatterjee, M., & Idsardi, W.J.** (in to appear 2012). The use of acoustic cues for phonetic identification: Effects of spectral degradation and electric hearing. *Journal of the Acoustical Society of America*.
- Winn, M.B., Chatterjee, M., & Idsardi, W.J.** (to be submitted January 2012) Perception of stop consonant voicing: Effects of masking noise and low-pass filtering.
- Winn, M.B., Chatterjee, M., & Idsardi, W.J.** (in prep) Phonetic context effects in fricative perception: Effects of spectral degradation and electric hearing.
- Winn, M.B., Rhone, A.E., Chatterjee, M., & Idsardi, W.J.** (in prep) Auditory and visual context effects in fricative perception: Effects of spectral degradation and electric hearing.
- Winn, M.B., Twist, A., Bowles, A., & Blodgett, A.,** (in prep) Vietnamese simple vowels – An acoustic analysis of native speaker and adult learner productions.
- Winn, M.B., Twist, A., & Blodgett, A.** (2009). Vietnamese vowels—The central focus: A description of Vietnamese central vowels and adult learner difficulties in pronunciation (Tech. Rep. No. E.5.2 TTO 2118). College Park, MD: Univ. of Maryland, Center for Advanced Study of Language.
- Winn, M.B & Idsardi, W.J.** (2008). Musical evidence regarding trochaic inversion. *Language and Literature*, 17 (4), 335-349.

Presentations

- Winn, M.B.**, Idsardi, W.J. and Chatterjee, M. (2011). *Implications of hearing impairment on phonetic perception*. Invited talk at the Joint Scientific Meeting of the Center for Comparative and Evolutionary Biology of Hearing (C-CEBH) at the Univ. of MD and the National Institute of Deafness and Other Communication Disorders (NIDCD) of the NIH, College Park, MD.
- Winn, M.B.**, Rhone, A.E., Idsardi, W.J. & Chatterjee, M. (2011). The perception of phonetic features and acoustic cues by impaired listeners. Invited talk at the 162nd meeting of the Acoustical Society of America, San Diego, CA.
- Winn, M.B.**, Rhone, A.E., Idsardi, W.J. & Chatterjee, M. (2011). *Normalization to talker gender and F0: Phonetic category adjustment by cochlear implant users*. Presented at the 15th Conference on Implantable Auditory Prostheses, Asilomar, CA.
- Blodgett, A., Twist, A., Bauman, J., Bowles, A., Fox, M., Luu, P., Rytting, C.A., Marx, J. & **Winn, M. B.** (2011) *Northern Vietnamese perception of non-native tones*. Presented at the 17th International Congress of Phonetic Sciences *ICPhS XVII*.
- Winn, M.B.**, Idsardi, W.J. and Chatterjee, M. (2011). *Divergent patterns of voicing perception in various challenging listening conditions*. Presented at the 161st meeting of the Acoustical Society of America, Seattle, WA.
- Rhone, A.E. **Winn, M.B.**, (2011). *Effects of spectral degradation on contextually-driven shifts in phonetic categorization*. Presented at the 161st meeting of the Acoustical Society of America. Seattle, WA.
- Winn, M.B.**, Chatterjee, M.C. (2011). *Modulation of phonetic cue-weighting in adverse listening conditions*. Presented at 34th MidWinter meeting of the Association for Research in Otolaryngology, Baltimore, MD.
- Winn, M.B.**, Chatterjee, M.C., Idsardi, W.J. (2010). *Phonetic cues are weighted differently when spectral resolution is degraded*. Invited talk at the Joint Scientific Meeting of the Center for Comparative and Evolutionary Biology of Hearing (C-CEBH) at the Univ. of MD and the National Institute of Deafness and Other Communication Disorders (NIDCD) of the NIH, College Park, MD.
- Winn, M.B.**, Chatterjee, M.C., Idsardi, W.J. (2010). *Phonetic cues are weighted differently when spectral resolution is degraded*. Poster presentation at the annual meeting of the American Auditory Society, Scottsdale, AZ.
- Blodgett, A., **Winn, M.**, Bauman, J., Bowles, A., Charters, L., Rytting, C.A., & Shamoo, J. (2009). *Identifying adult learner difficulties in the acquisition of lexical tone*. Presentation at American Association for Applied Linguistics, Denver, CO.

- Winn, M.B., Blodgett, A., Bauman, J., Bowles, A., Charters, L., Rytting, C.A., & Shamo, J. (2008).** *Vietnamese monophthong vowel production by native speakers and American adult learners.* Presented at "Acoustics '08" the joint meeting of the Acoustical Society of America, the European Acoustics Association, and the Société Française D'Acoustique, Paris, France.
- Blodgett, A., Bowles, A., Bauman, J., Shamo, J., & **Winn, M.B. (2007).** *Same or different: A preliminary acoustic analysis comparing native and non-native speaker production of Vietnamese lexical tones.* Presentation at the 17th Annual Conference of the Southeast Asian Linguistics Society (SEALS XVII), College Park, MD.
- Winn, M.B. & Pence, K. (2003).** *More verbs to come: The developing focus on verbs in parents' speech to infants.* Invited talk at Delaware Speech, Language & Hearing Association conference, Wilmington, DE.
- Pence, K., Golinkoff, R.M., & **Winn, M.B.,(2003).** *Coming into focus: emergence of parents' conversational focus on verbs.* Presented at the American Speech-Language-Hearing Association Convention, Chicago, IL, April 2003.

Research Experience

- Cochlear Implants and Psychophysics Laboratory (November 2008 – present)
 Supervisor: Monita Chatterjee, Ph.D. mchatter@umd.edu
 Speech perception by normal-hearing and cochlear implant listeners
- PFNA Sound Systems Lab Group (August 2005 – present)
 Supervisor: William Idsardi, Ph.D. idsardi@umd.edu
 Multi-disciplinary group on sound systems and auditory/cognitive science
- Center for Advanced Study of Language (August 2006 – July 2009)
 Supervisor: Allison Blodgett, Ph.D. ablodgett@casl.umd.edu
 Acoustic analysis of spoken Vietnamese word production
 Creation of perceptual experiments, training materials, and technical reports
- Hearing Science Laboratory (August 2006 – May 2007)
 Supervisor: Sandra Gordon-Salant, Ph.D. sgsalant@umd.edu
 Construction and manipulation of sound files for use in speech perception experiments

Teaching Experience

- Lecturer, University of Maryland
 HESP403: Introduction to Phonetic Science
 Fall 2005 – Spring 2011 (15 semesters), Typical enrollment: 40 students
 Primary and independent instruction for a junior-/senior-level course on phonetics, articulation, second language acquisition, clinical disorders, and basic speech science.

Teaching Experience (cont.)

Workshops & Seminars

Research tools for linguistics: Using Praat to measure and manipulate speech sounds.

A series of invited lectures and workshop sessions on speech analysis, speech manipulation and general methods in speech perception & speech production research

Awards

Pre-Doctoral Training Grant (Ctr for Comparative Evolution and Biology of Hearing; 2010, 2011)

Distinguished Teaching Award (Univ. of MD Center for Teaching Excellence; 2010, 2011)

Dean's Scholar Faculty Mentor (Univ. of MD College of Behavioral and Social Sciences; 2011)

Student Financial aid / Travel award (Conference on Implantable Auditory Prostheses, 2011)

Mentored Doctoral Student Research Poster grant – American Auditory Society 2010

Professional Service

- Audiology Faculty Search Committee 2010, University of Maryland Department of Hearing and Speech Sciences
- Ad-hoc reviewer, *Journal of Phonetics*, *Journal of the Acoustical Society of America*, *JASA-EL*
- Graduate Student Technology Fee Advisory Committee, University of Maryland College of Behavioral and Social Sciences
- Campus Student Technology Fee Advisory Committee, University of Maryland Department of Hearing and Speech Sciences
- Facilitator, Hearing and Speech Sciences toolkit lecture series

Membership in Professional Organizations

- Acoustical Society of America
- American Academy of Audiology
- Cognitive Neuroscience Society

Primary Research Interests and Ongoing Work

- Speech perception in challenging listening conditions
- Weighting of acoustic phonetic cues by listeners with hearing impairment
- Sensitivity to context in phonetic perception
- Language acquisition and phonologization
- Auditory cognition and categorization
- Developing research tools to assess spectral resolution in speech perception

Clinical Audiology Experience

Veterans' Affairs Medical Center July 2009 to present May 2008 to September 2009	Washington, DC Baltimore, MD
ENTAA Care Audiology January 2008 to May 2008	Glen Burnie, MD and Annapolis, MD
Univ. of Maryland Speech and Hearing Clinic September 2006 to December 2007	College Park, MD

Clinical licensing

North Dakota state license for audiology – Active license