

## CURRICULUM VITAE

**Ian B. Mertes, PhD, AuD, CCC-A**  
Department of Speech and Hearing Science  
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### EDUCATION

2014 PhD/AuD, Speech and Hearing Science/Audiology, University of Iowa, Iowa City, IA  
2011 MA, Speech Pathology and Audiology, University of Iowa, Iowa City, IA  
2004 BA, Psychology, Northern Illinois University, DeKalb, IL

### PROFESSIONAL POSITIONS

2016- Assistant Professor, Department of Speech and Hearing Science, University of Illinois at Urbana-Champaign, Champaign, IL  
2015-2016 Assistant Research Professor, Department of Otolaryngology and Head/Neck Surgery, Loma Linda University Health, Loma Linda, CA  
2014-2016 Postdoctoral Research Associate, VA Loma Linda Healthcare System, Loma Linda, CA  
2013 Audiologist, University of Iowa Hospitals and Clinics, Iowa City, IA

### LICENSURE AND CERTIFICATION

Certificate of Clinical Competence in Audiology (CCC-A)  
Licensure in Audiology (Iowa)

### PROFESSIONAL MEMBERSHIPS

American Auditory Society  
American Speech-Language-Hearing Association  
Association for Research in Otolaryngology

### PUBLICATIONS

#### Peer-Reviewed Journal Articles

1. **Mertes IB**, Wilbanks EC, Leek MR (in press) Olivocochlear efferent activity is associated with the slope of the psychometric function of speech recognition in noise. *Ear and Hearing*
2. **Mertes IB**, Leek MR (2016) Concurrent measures of contralateral suppression of transient evoked otoacoustic emissions and of auditory steady-state responses. *Journal of the Acoustical Society of America* 140(3):2027-2038. PMID: 27914370. PMCID: PMC5392076

3. **Mertes IB**, Goodman SS (2016) Within- and across-subject variability of repeated measurements of medial olivocochlear-induced changes in transient-evoked otoacoustic emissions. *Ear and Hearing* 37(2):e72-e84. PMID: 26583481
4. **Mertes IB**, Goodman SS (2013) Short-latency transient-evoked otoacoustic emissions as predictors of hearing status and thresholds. *Journal of the Acoustical Society of America* 134(3):2127-2135. PMID: 23967943
5. Goodman SS, **Mertes IB**, Lewis JD, Weissbeck DK (2013) Medial olivocochlear-induced transient-evoked otoacoustic emission amplitude shifts in individual subjects. *Journal of the Association for Research in Otolaryngology* 14(6):829-842. PMID: 23982894. PMCID: PMC3825019
6. Goodman SS, Bentler RA, Dittberner A, **Mertes IB** (2013) The effect of low-level laser therapy on hearing. *ISRN Otolaryngology* 2013:916370. PMID: 24024040. PMCID: PMC3658388

#### Peer-Reviewed Conference Proceedings

1. Goodman SS, **Mertes IB**, Scheperle RS (2011) Delays and growth rates of multiple TEOAE components. *AIP Conference Proceedings* 1403:279-285.

#### Abstracts

1. **Mertes I**, Wilbanks E, Leek M (2017) Are auditory training outcomes related to olivocochlear efferent function? *Bulletin of the American Auditory Society* 41(1):28
2. **Mertes I**, Stagner B, Wilbanks E, Leek M (2016) Contralateral suppression of TEOAEs and ASSRs measured concurrently. *Bulletin of the American Auditory Society* 40(1):31
3. **Mertes IB**, Leek MR (2016) Comparison of ASSRs and TEOAEs for measuring MOC function in humans. *Association for Research in Otolaryngology Abstracts* 39:203-204
4. **Mertes IB**, Wilbanks EC, Leek MR (2015) Pitch dominance within harmonic complexes in hearing-impaired listeners. *Association for Research in Otolaryngology Abstracts* 38:57
5. Stanziola RW, **Mertes IB**, Goodman SS, Lewis JD (2014) Relationship between the medial olivocochlear reflex, attention, and hearing in noise. *Bulletin of the American Auditory Society* 39(1):25
6. **Mertes IB**, Goodman SS (2014) Repeatability and stability of medial olivocochlear reflex effects on short- and long-latency transient-evoked otoacoustic emissions. *Association for Research in Otolaryngology Abstracts* 37:71
7. Weissbeck DK, **Mertes IB**, Lewis JD, Goodman SS, Marler J (2012) A bootstrapping approach to detect TEOAE suppression in individual subjects. *Bulletin of the American Auditory Society* 37(1):64
8. **Mertes IB**, Goodman SS (2012) Behavior of multiple TEOAE components in normal-hearing and hearing-impaired ears. *Bulletin of the American Auditory Society* 37(1):56
9. **Mertes IB**, Goodman SS (2011) Influence of multiple TEOAE components on measurement of growth and delay. *Bulletin of the American Auditory Society* 36(1):37
10. Goodman SS, **Mertes IB**, Sheffield SW, Scheperle RA, Koehlinger KM (2010) MOC suppression of extended high-frequency TEOAEs. *Bulletin of the American Auditory Society* 35(1):56
11. **Mertes IB**, Goodman SS (2009) Delays and growth rates of early and late click-evoked otoacoustic emission components. *Bulletin of the American Auditory Society* 34(1):50

## **RESEARCH SUPPORT**

### Current

2017-2018 University of Illinois at Urbana-Champaign Campus Research Board, Arnold O. Beckman Research Award, *Effect of Static Versus Dynamic Noises on Auditory Efferent Activity and Speech Perception in Noise*, PI, Direct costs: \$20,708, designated as project with special distinction/promise

### Pending

2017-2018 American Speech-Language-Hearing Foundation, 2017 New Investigators Research Grant, *Role of Olivocochlear Efferents for Listening in Dynamic Noise*, PI, Direct costs: \$10,000, under review

### Completed

2015-2016 National Institute on Deafness and Other Communication Disorders, 1F32DC015149-01, *Role of the Auditory Efferent System in Auditory Perceptual Learning*, PI, Direct costs: \$55,106

2013-2014 University of Iowa Executive Council of Graduate and Professional Students, ECGPS Research Grant, *Repeatability of Medial Olivocochlear Efferent Effects in Humans*, PI, Direct costs: \$750

2010-2011 American Speech-Language-Hearing Foundation, Student Research Grant in Audiology, *Clinical Utility of Early and Late TEOAE Components*, PI, Direct costs: \$2,000

### Awarded But Declined

2016-2018 US Department of Veterans Affairs Office of Rehabilitation R&D Service, Career Development Award-1 (CDA-1), *Auditory Efferent Effects and Speech Perception in Noise*, PI, Direct costs: \$214,908

## **TEACHING**

Department of Speech and Hearing Science, University of Illinois at Urbana-Champaign

<b>Course Number</b>	<b>Course Title</b>	<b>Term</b>	<b>Enrollment</b>	<b>Instructional Role</b>	<b>ICES Mean Score, Item 1</b>	<b>ICES Mean Score, Item 2</b>
SHS 554	Advanced Audiological Assess	Fall 2016	9	Instructor	4.9 / 5.0	4.9 / 5.0
SHS 557	Adv Clin Prac Aud Assess Rehab	Spring 2017	1	Instructor	N/A due to enrollment number	N/A due to enrollment number
SHS 588	Peripheral Hearing Assessment	Spring 2017	5	Instructor	4.8 / 5.0	4.6 / 5.0

Course Number	Course Title	Term	Enrollment	Instructional Role	ICES Mean Score, Item 1	ICES Mean Score, Item 2
SHS 592	Prosem Spch & Hear Sci	Fall 2017	35	Coordinator	TBD	TBD
SHS 593	Otoacoustic Emissions	Fall 2017	5	Instructor	TBD	TBD

## **PRESENTATIONS**

### Invited Talks

1. **Mertes IB** (2017) Assessing olivocochlear efferent activity using cochlear, neural, and perceptual measures. Invited talk at: Seminars in Hearing Research at Purdue, Apr 20, Department of Speech, Language, & Hearing Sciences, Purdue University, West Lafayette, IN.

### Podium Presentations

1. **Mertes IB** (2016) Contralateral suppression of cochlear and neural responses in humans. Podium presentation at: Departmental Proseminar, Sep 2, Department of Speech and Hearing Science, University of Illinois at Urbana-Champaign, Champaign, IL.
2. **Mertes IB** (2015) Assessing olivocochlear efferent effects using auditory steady-state responses. Podium presentation at: 2015 SoCal Hearing Conference, Aug 29, University of California San Diego, La Jolla, CA.
3. **Mertes IB** (2015) Auditory research group. Podium presentation at: VA Research Day, May 29, VA Loma Linda Healthcare System, Loma Linda, CA.
4. **Mertes IB** (2014) Repeatability of medial olivocochlear efferent effects on transient-evoked otoacoustic emissions in normal-hearing adults. Podium presentation at: 2014 SoCal Hearing Conference, Sep 13, University of California, Irvine, CA.
5. **Mertes IB** (2013) Repeatability of efferent effects on otoacoustic emissions. Podium presentation at: Departmental Proseminar, Dec 6, Department of Communication Sciences and Disorders, University of Iowa, Iowa City, IA.
6. **Mertes IB** (2013) Predicting pure-tone thresholds using TEOAEs. Podium presentation at: Departmental Proseminar, May 3, Department of Communication Sciences and Disorders, University of Iowa, Iowa City, IA.
7. **Mertes IB, Sheffield SW, Schepeler RA, Koehlinger KM** (2010) MOC suppression of extended high-frequency TEOAEs. Podium presentation at: Departmental Proseminar, Feb 26, Department of Communication Sciences and Disorders, University of Iowa, Iowa City, IA.
8. **Mertes IB** (2009) Delays and growth rates of early and late click-evoked otoacoustic emission components. Podium presentation at: Departmental Proseminar, Feb 27, Department of Communication Sciences and Disorders, University of Iowa, Iowa City, IA.

### Posters

1. **Mertes IB, Wilbanks EC, Leek MR** (2017) Are auditory training outcomes related to olivocochlear efferent function? Poster presentation at: Annual Meeting of the American Auditory Society, Mar 2-4, Scottsdale, AZ.
2. **Mertes IB, Stagner BB, Wilbanks EC, Leek MR** (2016) Contralateral suppression of TEOAEs and ASSRs measured concurrently. Poster presentation at: Annual Meeting of the American Auditory Society, Mar 3-5, Scottsdale, AZ.

3. **Mertes IB**, Leek MR (2016) Comparison of ASSRs and TEOAEs for measuring MOC function in humans. Poster presentation at: Association for Research in Otolaryngology 39<sup>th</sup> MidWinter Meeting, Feb 20-24, San Diego, CA.
4. **Mertes IB**, Wilbanks EC, Leek MR (2015) Pitch dominance within harmonic complexes in hearing-impaired listeners. Poster presentation at: Association for Research in Otolaryngology 38<sup>th</sup> MidWinter Meeting, Feb 21-25, Baltimore, MD.
5. Stanziola RW, Lewis JD, **Mertes IB**, Goodman SS (2014) Relationship between the medial olivocochlear reflex, attention, and hearing in noise. Poster presentation at: Annual Meeting of the American Auditory Society, Mar 6-8, Scottsdale, AZ.
6. **Mertes IB**, Goodman SS (2014) Repeatability and stability of medial olivocochlear reflex effects on short- and long-latency transient-evoked otoacoustic emissions. Poster presentation at: Association for Research in Otolaryngology 37<sup>th</sup> MidWinter Meeting, Feb 22-26, San Diego, CA.
7. **Mertes IB**, Goodman SS (2012) Prediction of audiometric thresholds using early TEOAE energy. Poster presentation at: Annual Meeting of the American Auditory Society, Mar 8-10, Scottsdale, AZ.
8. Weissbeck DK, Lewis JD, **Mertes IB**, Marler J, Goodman SS (2012) A bootstrapping approach to detect TEOAE suppression in individual subjects. Poster presentation at: Annual Meeting of the American Auditory Society, Mar 8-10, Scottsdale, AZ.
9. Goodman SS, **Mertes IB**, Scheperle RS (2011) Delays and growth rates of multiple TEOAE components. Poster presentation at: Mechanics of Hearing 2011 International Conference, Jul 16-22, Williamstown, MA.
10. **Mertes IB**, Goodman SS (2011) Influence of multiple TEOAE components on measurement of growth and delay. Poster presentation at: Annual Meeting of the American Auditory Society, Mar 7-10, Scottsdale, AZ.
11. Goodman SS, **Mertes IB**, Sheffield SW, Scheperle RA, Koehlinger KM (2010) MOC suppression of extended high-frequency TEOAEs. Poster presentation at: Annual Meeting of the American Auditory Society, Mar 4-6, Scottsdale, AZ.
12. **Mertes IB**, Goodman SS (2009) Delays and growth rates of early and late click-evoked otoacoustic emission components. Poster presentation at: Annual Meeting of the American Auditory Society, Mar 5-7, Scottsdale, AZ.
13. **Mertes IB**, Bentler RA (2007) Wireless options in amplification. Poster presentation at: Iowa Speech and Hearing Association Convention, Oct 26, Coralville, IA.

#### Guest Lectures

1. Otoacoustic emissions and auditory brainstem response testing. *Introduction to Audiology* undergraduate course, 2016 Apr 7, Department of Communicative Disorders, University of Redlands, Redlands, CA.
2. Otoacoustic emissions. *Introduction to Audiology* undergraduate course, 2016 Mar 1, Department of Communication Sciences and Disorders, Loma Linda University, Loma Linda, CA.
3. Acoustic reflexes. *Hearing Loss and Audiometry* undergraduate course, 2012 Oct 5, Department of Communication Sciences and Disorders, University of Iowa, Iowa City, IA.
4. Review of amplitude and decibels. *Hearing Loss and Audiometry* undergraduate course. 2012 Sep 6, Department of Communication Sciences and Disorders, University of Iowa, Iowa City, IA.
5. Wideband reflectance for assessing middle ear function. *Advanced Audiology* graduate course, 2011 Oct 7, Department of Communication Sciences and Disorders, University of Iowa, Iowa City, IA.

6. Hearing aids. *Hearing Loss and Audiometry* undergraduate course, 2009 Nov 30, Department of Communication Sciences and Disorders, University of Iowa, Iowa City, IA.

## **SERVICE**

### Public Engagement

2008-2013 Special Olympics Healthy Hearing volunteer

### Disciplinary and Professional Societies or Associations

2017 Review panel, 2017 Graduate Student Scholarship, American Speech-Language-Hearing Foundation  
2016- Ad hoc reviewer, *Journal of the Association for Research in Otolaryngology, Ear and Hearing*, *Journal of Hearing Science*

### University/Campus Service

Department of Speech and Hearing Science, University of Illinois at Urbana-Champaign

2017-2018 Member, SHS Program Policy Committee  
2017-2018 Member, SHS Faculty Advisory Committee  
2017-2018 Member, SHS Faculty Search Committee  
2016-2017 Member, SHS Awards Committee, member  
2016-2017 SHS Junior mentor for undergraduate students  
2016-2017 Member, SHS Faculty Search Committee  
2016-2017 Member, Au.D. capstone committee member, two students

## **AWARDS AND HONORS**

2017 Selected for ACES Research Academy, University of Illinois College of Agricultural, Consumer and Environmental Sciences Office of Research  
2016-2017 List of Teachers Ranked as Excellent by Their Students (Fall 2016, Spring 2017), UIUC Center for Innovation in Teaching and Learning  
2016-2018 Loan Repayment Program for Clinical Researchers, National Institute on Deafness and Other Communication Disorders  
2016 ASHA Research Conferences Travel Grant, American Speech-Language-Hearing Association and the American Speech-Language-Hearing Foundation  
2016 Lessons for Success mentee, American Speech-Language-Hearing Association  
2015 Pathways mentee, American Speech-Language-Hearing Association  
2015 ARO 2015 Audiologist Travel Award, American Academy of Audiology Foundation  
2014 ARO 2014 Audiologist Travel Award, American Academy of Audiology Foundation  
2013 ECGPS Travel Award, University of Iowa Executive Council of Graduate and Professional Students  
2012 William F. Austin Scholarship, Starkey Hearing Technologies  
2012 Travel Funds Award, University of Iowa Graduate Student Senate  
2012 Graduate College Summer Fellowship, University of Iowa Graduate College  
2011 Student Conference Scholarship, Mechanics of Hearing 2011 Organizing Committee  
2011 Resident and Graduate Student Poster Session Grant, National Institutes of Health and the American Auditory Society

2010 Niel VerHoef Memorial Scholarship Award, Iowa Speech-Language-Hearing Association  
2009 Travel Funds Award, University of Iowa Graduate Student Senate  
2008 Audiology Research Travel Award, American Speech-Language-Hearing Association  
2007-2009 Predoctoral Research Training in Speech and Hearing (T32DC007366), National Institute on Deafness and Other Communication Disorders