

**Ian B. Mertes, Ph.D., Au.D., CCC-A**  
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## **I. Personal History and Professional Experience**

### **A. Educational Background**

Northern Illinois University; B.A., Psychology; May 2004  
University of Iowa; M.A., Speech Pathology and Audiology; May 2011  
University of Iowa; Ph.D./Au.D., Speech and Hearing Science/Audiology; August 2014

### **B. List of Academic Positions since Final Degree**

August 2014-August 2016: Postdoctoral Research Associate, VA Loma Linda Healthcare System, Loma Linda, CA  
December 2015-August 2016: Assistant Research Professor, Department of Otolaryngology and Head/Neck Surgery, Loma Linda University Health, Loma Linda, CA  
August 2016-present: Assistant Professor, Department of Speech and Hearing Science, University of Illinois at Urbana-Champaign, Champaign, IL

### **C. Other Professional Employment**

January 2013-August 2013: Audiologist, University of Iowa Hospitals and Clinics, Iowa City, IA

### **D. Honors, Recognitions, and Outstanding Achievements**

Predoctoral trainee (T32DC007366), National Institute on Deafness and Other Communication Disorders, 2007-2009:  
Audiology Research Travel Award, American Speech-Language-Hearing Association, 2008  
Travel Funds Award, University of Iowa Graduate Student Senate, 2009  
Niel VerHoef Memorial Scholarship Award, Iowa Speech-Language-Hearing Association, 2010  
Resident and Graduate Student Poster Session Grant, National Institutes of Health and the American Auditory Society, 2011  
William F. Austin Scholarship, Starkey Hearing Technologies, 2012  
ARO 2014 Audiologist Travel Award, American Academy of Audiology Foundation, 2014  
ARO 2015 Audiologist Travel Award, American Academy of Audiology Foundation, 2015  
Pathways mentee, American Speech-Language-Hearing Association, 2015  
Lessons for Success mentee, American Speech-Language-Hearing Association, 2016

ASHA Research Conferences Travel Grant, American Speech-Language-Hearing Association and the American Speech-Language-Hearing Foundation, 2016  
Clinical Loan Repayment Program Award, National Institute on Deafness and Other Communication Disorders, 2016-2018  
List of Teachers Ranked as Excellent by Their Students (Fall 2016, Spring 2017, Fall 2017), UIUC Center for Innovation in Teaching and Learning  
ACES Research Academy program, UIUC Office of Research, College of Agricultural, Consumer and Environmental Sciences, Spring 2017

E. Invited Lectures and Invited Conferences Presentations Since Last Promotion

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

F. Offices Held in Professional Societies

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

G. Editorships of Journals or Other Learned Publications

None

H. Grants Received

1. Student Research Grant in Audiology, *Clinical Utility of Early and Late TEOAE Components*, PI: Ian Mertes, American Speech-Language-Hearing Foundation, December 2010 – November 2011, Direct costs: \$2,000
2. ECGPS Research Grant, *Repeatability of Medial Olivocochlear Efferent Effects in Humans*, PI: Ian Mertes, University of Iowa Executive Council of Graduate and Professional Students, November 2013 – August 2014, Direct costs: \$750
3. Ruth L. Kirschstein National Research Service Award (NRSA) Individual Postdoctoral Fellowship (Parent F32), *Role of the Auditory Efferent System in Auditory Perceptual Learning*, PI: Ian Mertes, National Institute on Deafness and Other Communication Disorders, September 2015 – August 2016, Direct costs: \$55,106
4. Career Development Award-1, *Auditory Efferent Effects and Speech Perception in Noise*, PI: Ian Mertes, U.S. Department of Veterans Affairs Office of Rehabilitation R&D Service, June 2016 – May 2018, Direct costs: \$214,908, Awarded but declined
5. Arnold O. Beckman Research Award, *Effect of Static Versus Dynamic Noises on Auditory Efferent Activity and Speech Perception in Noise*, PI: Ian Mertes, UIUC Campus Research Board, April 2017 – October 2018, Direct costs: \$20,723

6. 2017 New Investigators Research Grant, *Role of Olivocochlear Efferents for Listening in Dynamic Noise*, PI: Ian Mertes, American Speech-Language-Hearing Foundation, November 2017 – November 2018, Direct costs: \$10,000

I. Review Panels

None

J. Professional Licensure and Certification

Licensure in Audiology, State of Iowa  
Certificate of Clinical Competence in Audiology (CCC-A), American Speech-Language-Hearing Association

**II. Publications and Creative Works**

# denotes any publication derived from the candidate's thesis.

\* Denotes any publication that has undergone stringent editorial review by peers.

A. Doctoral Thesis Title

Repeatability of medial olivocochlear efferent effects on transient-evoked otoacoustic emissions in normal-hearing adults.

B. Books Authored or Co-Authored (in print or accepted)

None

C. Books Edited or Co-Edited (in print or accepted)

None

D. Chapters in Books (in print or accepted)

None

E. Monographs (in print or accepted)

None

F. Articles in Journals (in print or accepted)

1. \*Goodman, S. S., Bentler, R. A., Dittberner, A., & **Mertes, I. B.** (2013). The effect of low-level laser therapy on hearing. *ISRN Otolaryngology*, 2013, 916370.
2. \*Goodman S. S., **Mertes, I. B.**, Lewis, J. D., & Weissbeck, D. K. (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.

3. \***Mertes, I. B.**, & Goodman, S. S. (2013). Short-latency transient-evoked otoacoustic emissions as predictors of hearing status and thresholds. *The Journal of the Acoustical Society of America*, 134(3), 2127-2135.
4. \***Mertes, I. B.**, & Goodman, S. S. (2016). Within- and across-subject variability of repeated measurements of medial olivocochlear-induced changes in transient-evoked otoacoustic emissions. *Ear and Hearing*, 37(2), e72-84.
5. \***Mertes, I. B.**, & Leek, M. R. (2016). Concurrent measures of contralateral suppression of transient-evoked otoacoustic emissions and of auditory steady state responses. *The Journal of the Acoustical Society of America*, 140(3), 2027-2038.
6. \***Mertes, I. B.**, Wilbanks, E. C., & Leek, M. R. (2018). Olivocochlear efferent activity is associated with the slope of the psychometric function of speech recognition in noise. *Ear and Hearing*, 39(3), 583-593.
7. \***Mertes, I. B.** (in press). Human medial efferent activity elicited by dynamic versus static contralateral noises. *Hearing Research*.

G. Creative Works (Exhibitions, Commissions, Competitions, Performances, Designs, Art or Architecture Executed)

None

H. Patents

None

I. Bulletins, Reports, or Conference Proceedings (in print or accepted)

1. \*Goodman, S. S., **Mertes, I. B.**, & Scheperle, R. S. (2011). Delays and growth rates of multiple TEOAE components. *AIP Conference Proceedings*, 1403, 279-285.

J. Abstracts (in print or accepted)

1. **Mertes, I. B.**, & Goodman, S. S. (2009). Delays and growth rates of early and late click-evoked otoacoustic emission components. *Bulletin of the American Auditory Society*, 34(1), 50.
2. Goodman, S. S., **Mertes, I. B.**, Sheffield, S. W., Scheperle, R. A., & Koehlinger, K. M. (2010). MOC suppression of extended high-frequency TEOAEs. *Bulletin of the American Auditory Society*, 35(1), 56.
3. **Mertes, I. B.**, & Goodman, S. S. (2011). Influence of multiple TEOAE components on measurement of growth and delay. *Bulletin of the American Auditory Society*, 36(1), 37.
4. **Mertes, I. B.**, & Goodman, S. S. (2012). Behavior of multiple TEOAE components in normal-hearing and hearing-impaired ears. *Bulletin of the American Auditory Society*, 37(1), 56.

5. Weissbeck, D. K., **Mertes, I. B.**, Lewis, J. D., Goodman, S. S., & Marler, J. (2012). A bootstrapping approach to detect TEOAE suppression in individual subjects. *Bulletin of the American Auditory Society*, 37(1), 64.
6. **#Mertes, I. B.**, & Goodman, S. S. (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. Stanziola, R. W., **Mertes, I. B.**, Goodman, S. S., & Lewis, J. D. (2014). Relationship between the medial olivocochlear reflex, attention, and hearing in noise. *Bulletin of the American Auditory Society*, 39(1), 25.
8. **Mertes, I. B.**, Wilbanks, E. C., & Leek, M. R. (2015). Pitch dominance within harmonic complexes in hearing-impaired listeners. *Association for Research in Otolaryngology Abstracts*, 38, 57.
9. **Mertes, I. B.**, & Leek, M. R. (2016). Comparison of ASSRs and TEOAEs for measuring MOC function in humans. *Association for Research in Otolaryngology Abstracts*, 39, 203-204.
10. **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.
11. **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.
12. **Mertes, I. B.**, Johnson, K. M., & Dinger, Z. A. (2018). Human olivocochlear efferent activity elicited by dynamic versus static noise. *Association for Research in Otolaryngology Abstracts*, 41, 116.
13. Johnson, K., Dinger, Z., & **Mertes, I.** (2018). Assessing olivocochlear efferent contributions to speech understanding in noise. *American Auditory Society Scientific and Technology Meeting Poster Abstracts*, 36.

K. Book Reviews (in print or accepted)

None

L. Other

None

**III. Resident Instruction**

A. Summary of Instruction

1. Descriptive Data

Course Number	Course Title	Term	Enrollment	Role	ICES Mean Score, Item 1	ICES Mean Scores, Item 2
SHS 554	Advanced Audiological Assess	Fall 2016	9	Instructor	4.9 / 5.0	4.9 / 5.0
SHS 588	Peripheral Auditory Assessment	Spring 2017	5	Instructor	4.8 / 5.0	4.6 / 5.0
SHS 557	Adv Clin Prac Aud Assess Rehab (Ph.D. independent study)	Spring 2017	1	Instructor	N/A	N/A
SHS 593	Otoacoustic Emissions	Fall 2017	5	Instructor	5.0 / 5.0	5.0 / 5.0
SHS 592A	Prosem Spch & Hear Sci	Fall 2017	35	Coordinator	N/A	N/A
SHS 551	Electrophys Indices Audition	Spring 2018	7	Instructor	TBD	TBD
SHS 592A	Prosem Spch & Hear Sci	Spring 2018	33	Coordinator	N/A	N/A
SHS 592B	Prosem Spch & Hear Sci (Ph.D. seminar)	Spring 2018	4	Instructor	TBD	TBD
SHS 593	Capstone Project	Spring 2018	2	Adviser	N/A	N/A

2. Supervision of Graduate Students

*Ph.D. qualifying examination committee member:*

Tai, Y., Ph.D., December 2017-March 2018 (passed), “The role of cognitive control in tinnitus and its relation to speech-in-noise performance.”

*Au.D. capstone adviser:*

Dinger, Z. Au.D., Spring 2018-present, title TBD.  
Johnson, K., Au.D., Spring 2018-present, title TBD.

*Au.D. capstone committee member:*

Prachar, N., Au.D., October 2016-April 2017 (passed), “Current tinnitus counseling practices among audiologists in the United States: A survey study for audiologists.”

Lee, D., Au.D., November 2016-May 2017 (passed), “The effects of a broadly shaped contralateral masker in bilateral cochlear implant users.”

Arns, A., Au.D., March 2018-present, “The Relationship between Peripheral Hearing Loss and Cognitive Decline: A Literature Review.”

Coobs, K., Au.D., January 2018-present, “Comparison of Treatment Methodology for Idiopathic Sudden Sensorineural Hearing Loss.”

Brownlee, A., Au.D., May 2018-present, “Current Internet Resources Used for Self-Education and Self-Management by Adults with Tinnitus in the United States: A Survey Study.”

*Graduate Research Assistant:*

Johnson, K., Au.D. student, Spring 2017-present.

*Graduate Laboratory Volunteer:*

Dinger, Z., Au.D. student, Spring 2017-present.

3. Supervision of Undergraduate Students

None

4. Other Contributions to Instructional Programs

Spring 2017: Developed new Au.D. seminar “Peripheral Auditory Assessment” (SHS 588 Adv Sem Neural Bases Com Dis)

Spring 2017: Coordinated independent study with Ph.D. student on auditory evoked potentials and MATLAB programming (SHS 557 Adv Clin Prac Aud Assess Rehab)

Fall 2017: Developed new Au.D. seminar “Otoacoustic Emissions” (SHS 593 Special Problems)

Fall 2017-Spring 2018: Coordinated departmental proseminar (SHS 592A Prosem Spch & Hear Sci)

Spring 2018: Developed new Ph.D. seminar on preparation for academic research careers (SHS 592B Prosem Spch & Hear Sci)

**IV. Service (Public Engagement, Professional/Disciplinary, and University)**

A. Summary of Service

1. Public Engagement

2008-2013: Special Olympics Healthy Hearing volunteer (state, national, and international)

2. Service to Disciplinary and Professional Societies or Associations

Ad hoc reviewer

*Journal of the Association for Research in Otolaryngology*, 2016-2018

*Ear and Hearing*, 2016-2018

*Journal of the Acoustical Society of America*, 2017-2018

*Journal of Hearing Science, 2017*

Scholarship reviewer

Graduate Student Scholarship, American Speech-Language-Hearing Foundation, 23 applications, 2017

Abstract reviewer

Scientific and Technology Conference of the American Auditory Society, 28 abstracts, 2018

3. University/Campus Service

Fall 2016-Spring 2017: Member, Awards Committee, Department of Speech and Hearing Science

Fall 2016-Spring 2017: Member, Search Committee for Open-Rank Faculty Positions in Speech Science and Hearing Science, Department of Speech and Hearing Science

Fall 2016-present: SHS Junior Mentor, Department of Speech and Hearing Science

Fall 2017-present: Member, Search Committee for Clinical Assistant Professor of Audiology and Clinical Assistant Professor of Speech-Language Pathology, Department of Speech and Hearing Science

Fall 2017-present: Member, Program Policy Committee, Department of Speech and Hearing Science

Fall 2017-present: Member, Faculty Advisory Committee, Department of Speech and Hearing Science

Fall 2017: Ad hoc reviewer, Research Support Award, Campus Research Board

Fall 2017: Invited participant, "The Next 150" campus strategic planning meeting

Spring 2018: Ad hoc member, Graduate Admissions Committee, Department of Speech and Hearing Science