

## Yonghee Oh, Ph.D.

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### EDUCATION

- Sep/09 – Aug/13    **The Ohio State University**    Columbus, OH  
Ph.D. in Speech and Hearing Science  
- Dissertation: An Enhanced Channel Model for Spectrotemporal Integration and Masker Phase Effects, Advisor: Lawrence L. Feth
- Sep/07 – Mar/09    **The Ohio State University**    Columbus, OH  
M.S. in Electrical and Computer Engineering  
- Signal Estimation and Detection, Advisor: Ashok Krishnamurthy
- Mar/98 – Feb/02    **Korea Aerospace University**    Seoul, Korea  
B.S. in Electrical and Computer Engineering  
- Radar Signal Processing, Advisor: Young K. Kwag

### POSITIONS

- Nov/18 – Present    - **Assistant Professor**, Department of Speech, Language, and Hearing Sciences, University of Florida    Gainesville, FL
- Dec/14 – Oct/18    - **Postdoctoral Research Fellow** with Lina A. Reiss, Ph.D.    Portland, OR  
Cochlear Implant and Hearing Aid Research Lab, Oregon Health & Science University
- **Research Associate** with Timothy Hullar, M.D.    Vestibular Psychophysics Lab, Oregon Health & Science University
- **Research Associate** with Frederick (Erick) J. Gallun, Ph.D.    National Center for Rehabilitative Auditory Research (NCRAR), VA Portland Health Care
- Sep/13 – Oct/14    - **Postdoctoral Research Fellow** with Lawrence L. Feth, Ph.D.    Columbus, OH  
*Psychoacoustics Lab, The Ohio State University*
- Sep/09 – Aug/13    - **Research Assistant**    Speech and Hearing Science, *The Ohio State University*

**RESEARCH**  
**INTERESTS**

- Computational Models of Peripheral Auditory Signal Processing
- Cochlear Implant and Hearing Aid Signal Processing
- Nonlinear Dynamics (Bifurcation Theory) in the Auditory System
- Psychoacoustics
- Speech Perception and Recognition
- Multisensory Integration
- Vestibular Psychophysics

**GRANTS**

March/17-Oct/18 F32 Ruth L. Kirschstein National Research Service Award for Individual Postdoctoral Fellows, National Institute of Health (NIDCD)  
PI: Y. Oh Sponsors: L. Reiss and G. Frederick Direct Cost:\$120,156

**PROFESSIONAL**  
**MEMBERSHIPS**

2010 – Present Associate member, *Acoustical Society of America*  
2016 - Present Associate member, *Association for Research in Otolaryngology*  
2016 - Present Full member, *Sigma Xi*  
2017 - Present Associate member, Society for Neuroscience

Reviewer for journals:*Journal of Acoustical Society of America*  
*Trends in Hearing*  
*Frontiers in Psychology*  
*PLoS ONE*  
*Journal of Speech Language and Hearing Research*  
*Ear and Hearing*  
*Journal of Phonetics*  
*Clinical Archives of Communication Disorder*  
*International Journal of Audiology*  
*American Journal of Audiology*

**PEER-REVIEWED**  
**PUBLICATIONS**

Oh, Y., Feth, L. L., and Hoglund, E. M. (2015) "An enhanced channel model for auditory spectrotemporal integration", *J. Acoust. Soc. Am.* 138(5), 2848-2859.

Reiss L. A., Eggleston J. L., Walker, E. P., and **Oh, Y.** (2016) “Two ears are not always better than one: Mandatory vowel fusion across spectrally mismatched ears in hearing-impaired listeners”, *J Assoc Res Otolaryngol.* 17(4), 341-356.

Reiss, L. A., Shayman, C. S., Walker, E. P., Bennett, K. O., Fowler, J. R., Hartling, C. L., Glickman, B., Lasarev, M., and **Oh, Y.** (2017). Binaural pitch fusion: Comparison of normal-hearing and hearing-impaired listeners. *J. Acoust. Soc. Am.* 143(3), 1909-1920.

**Oh, Y.** and Reiss, L. A. “Binaural pitch fusion: Pitch averaging and dominance in hearing-impaired listeners with broad binaural pitch fusion”, (2017). *J. Acoust. Soc. Am.* 142(2) 780-791.

Reiss, L. A., Fowler, J. R., Hartling, C. L., and **Oh, Y.** “Binaural pitch fusion in bilateral cochlear implant users”, (2018). *Ear Hear.* 39(2), 390-397.

**Oh, Y.** and Reiss, L. A. “Binaural pitch fusion: Effects of amplitude modulation”, (2018). *Trends in Hearing.* 22, 1-12.

Shayman, C. S., Seo, J., **Oh, Y.**, Peterka, R., Lewis, R. F., and Hullar, T. E. “Relationship between vestibular sensitivity and multisensory temporal integration”, (2018). *J Neurophysiol.* 120(4), 1572-1577.

**PUBLICATIONS**  
**SUBMITTED &**  
**IN REVISION &**  
**IN PREPARATION**

**Oh, Y.**, Hartling, C. L., Srinivasan, N. K., Eddolls, M., Diedesch, A. C., Gallun, F. J., and Reiss, L. A. “Broad binaural pitch fusion impairs segregation of speech based on voice pitch differences in a ‘cocktail party’ environment”, (in revision).

**Oh, Y.** and Reiss, L. A. “Binaural pitch fusion: Pitch averaging and dominance in cochlear implant users with broad binaural pitch fusion”, (in revision).

Shayman, C. S., Peterka, R., Gallun, F. J., **Oh, Y.**, Chang, N. N., and Hullar, T. E. “Frequency-dependent integration of auditory and vestibular cues for motion perception”, (submitted).

Lee, T., Shayman, C. S., **Oh, Y.**, Peterka, R. J., and Hullar, T. E. “Reliability of vestibular perceptual testing”, (submitted).

Delaram, S., Shayman, C. S., Hullar, T. E., King, L. A., Lee, R., and **Oh, Y.** “Temporally expanded and shifted multisensory synchrony in individuals with Parkinson’s disease”, (in preparation).

**Oh, Y.** Gallun, F. J., and Reiss, L. A. “Binaural pitch fusion: Comparison of isolated and temporally flanked dichotic stimuli”, (in preparation).

Anderson, S. R., Glickman, B., **Oh, Y.**, and Reiss, L. A. J. “Binaural pitch fusion: Effects of sound level in normal-hearing listeners”, (in preparation).

Glickman, B., **Oh, Y.**, and Reiss, L. A. J. “Binaural pitch fusion: Effects of interaural level difference”, (in preparation).

Klyn, N. A., **Oh, Y.**, Hoglund, E. M., Feth, L. L., Lerud, K., and Large, E. “Testing a computational model for detection of “real-world” sounds”, (in preparation).

## **INVITED**

### **PRESENTATIONS**

“Human psychoacoustics and model-based approaches for clinical applications”, Otology Research Seminar, Seoul, South Korea, June 2016.

“Difficulty with understanding speech in background noise is predicted by broad binaural pitch fusion in bimodal cochlear implant users”, ASA 175<sup>th</sup> meeting Special Session: Consequences of Asymmetrical Hearing, May 2018.

### **PRESENTATIONS**

#### **PROCEEDINGS**

**Oh, Y.**, Reiss, L., and Gallun, F. (2019). “Binaural pitch fusion: Comparison of isolated and temporally flanked dichotic stimuli”, CIAP meeting.

**Oh, Y.**, Gallun, F., and Reiss, L. A. (2018). “Effect of auditory stream segregation cues on binaural pitch fusion”, ASA 175<sup>th</sup> meeting.

**Oh, Y.** and Reiss, L. A. (2018). “Relationship of within-ear frequency tuning to binaural pitch fusion”, ARO 41<sup>st</sup> meeting.

**Oh, Y.** and Reiss, L. A. (2017). "Computational model approach to understand mechanism for binaural pitch fusion", APAN meeting & SFN meeting.

**Oh, Y.**, Shayman, C., and Hullar, T. (2017). "The effect of Parkinson's disease on multisensory temporal binding", SFN meeting.

**Oh, Y.**, Hartling, C., Reiss, L. A., Srinivasan, N. K., Jakien, K., Diedesch, A., and Gallun, F. (2017). "Voice gender release from masking in cochlear implant users is correlated with binaural pitch fusion", CIAP meeting.

**Oh, Y.**, Hartling, C., Reiss, L. A., Srinivasan, N. K., Jakien, K., Diedesch, A., and Gallun, F. (2017). "Voice gender release from masking in cochlear implant users is correlated with binaural pitch fusion", *J. Acoust. Soc. Am.* 141, 3816.

**Oh, Y.** and Reiss, L. A. (2017). "Effect of amplitude modulation on binaural pitch fusion", ARO 40<sup>th</sup> meeting.

**Oh, Y.** and Reiss, L. A. (2016). "Binaural pitch averaging and dominance trends in cochlear implant users", *J. Acoust. Soc. Am.* 139, 1991.

**Oh, Y.** and Reiss, L. A. (2016). "Toward a systematic analysis of binaural pitch averaging trends in hearing impaired listeners", ARO 39<sup>th</sup> meeting.

**Oh, Y.**, Hoglund, E. M., and Feth, L. L. (2014). "Testing a nonlinear computational channel model for masker phase effects", *J. Acoust. Soc. Am.* 135, 2164.

**Oh, Y.**, Hoglund, E. M., and Feth, L. L. (2012). "A modified channel model for the auditory peripheral system", *J. Acoust. Soc. Am.* 131, 3518.

**Oh, Y.** and Feth, L. L. (2012). "Optimal linear quadratic detector for the weighted channel model", Air Force Research meeting, Dayton, OH, February 2012.

**Oh, Y.** (2011). "A model of spectrotemporal integration based on fixed-variable weight hypotheses", Air Force Research meeting, Columbus, OH, October 2011.