

Yu-Hsiang Wu, MD, PhD
Department of Communication Sciences and Disorders
Curriculum Vitae as of November 1st, 2023

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EDUCATION AND PROFESSIONAL HISTORY

Post Graduate Education

2008 - 2009 **Postdoctoral Fellow**, Hearing science, University of Iowa
Mentor(s): Bentler, Ruth

Higher Education

2007 **PhD**, Hearing sciences, University of Iowa
Thesis: The impact of visual cues on directional benefit
1994 **MD**, Medicine, National Taiwan University, Taiwan

Professional and Academic Positions

2018 - Present **Associate Professor, Department of Communication Sciences and Disorders**, University of Iowa
2012 - 2018 **Assistant Professor, Department of Communication Sciences and Disorders**, University of Iowa
2011 - 2012 **Adjunct Assistant Professor, Department of Communication Sciences and Disorders**, University of Iowa
2009 - 2012 **Assistant Research Scientist, Department of Communication Sciences and Disorders**, University of Iowa
2001 - 2003 **Clinical Otolaryngologist, Department of Otolaryngology**, Tzu Chi General Hospital, Taiwan

Honors and Awards

2022 **F. Wendell Miller Professor Award**, The University of Iowa
2022 **American Journal of Audiology Editor's Award**: Urbanski, D. P., Hernandez, H., Oleson, J., & Wu, Y. H. (2021). Toward a New Evidence-Based Fitting Paradigm for Over-the-Counter Hearing Aids. *American Journal of Audiology*. 30(1), 43-66.
2020 **Distinguished Faculty Award** (\$25,000), Facebook Reality Labs Research
2020 **Ear and Hearing Editor's Award**: Wu, Y. H., Stangl, E., Chipara, O., Hasan, S. S., DeVries, S., & Oleson, J. (2019). Efficacy and effectiveness of advanced hearing aid directional and noise reduction technologies for older adults with mild to moderate hearing loss. *Ear and Hearing*, 40(4), 805-822.
2011 **CLAS Exceptional Performance Flexible Pay Awards** The University of Iowa
2009 **Travel Award**, Aging and Speech Communication: Third International and Interdisciplinary Research Conference, Indiana University, Bloomington, IN
2008 **NIH Mentored Student Research Award**, America Auditory Society, Scottsdale, AZ
2006 **Kenneth T. Key Scholarship**, University of Iowa
2006 **Student Scholarship Award**, International Hearing Aids Research Conference (IHCON), Lake Tahoe, CA

Memberships

2007 - Present American Academy of Audiology
2007 - Present American Auditory Society

TEACHING**Courses Taught at the University of Iowa**

Term	Course#	Title	Ten-Day Enrollment	Final Enrollment
Fall 2023	CSD:5240	Hearing Aids	8	8
	CSD:6293	Vestibular Rehabilitation	13	13
Spring 2023	CSD:6291	Vestibular Assessment	13	13
	CSD:7238	Capstone Requirement	2	2
	CSD:3993	Research Practicum	1	1
Fall 2022	CSD:7238	Capstone Requirement	1	1
Spring 2022	CSD:7238	Capstone Requirement	9	9
	CSD:7590	Research	1	1
Fall 2021	CSD:6293	Vestibular Rehabilitation	6	6
	CSD:7590	Research	1	1
Spring 2021	CSD:7238	Capstone Requirement	4	4
	CSD:7590	Research	2	2
	CSD:6291	Vestibular Assessment	6	6
Fall 2020	CSD:7238	Capstone Requirement	2	2
	CSD:5240	Hearing Aids I	6	6
	CSD:7590	Research	3	3
	CSD:6293	Vestibular Rehabilitation	9	9
Spring 2020	CSD:7238	Capstone Requirement	10	10
	CSD:7590	Research	1	1
	CSD:6291	Vestibular Assessment	9	9
Fall 2019	CSD:5240	Hearing Aids I	7	7
	CSD:6242	Hearing Aids II	9	9
	CSD:7590	Research	2	2
	CSD:6293	Vestibular Rehabilitation	5	5
Spring 2019	CSD:7238	Capstone Requirement	8	8
	CSD:7590	Research	2	2
	CSD:6291	Vestibular Assessment	5	5
Fall 2018	CSD:6242	Hearing Aids II		7
	CSD:7590	Research		3
Spring 2018	CSD:7238	Capstone Requirement		4
	CSD:7590	Research		2
Fall 2017	CSD:6242	Hearing Aids II		10
	CSD:7590	Research		3
	CSD:6291	Vestibular Assessment and Rehabilitation		10
Spring 2017	CSD:7590	Research		1
Fall 2016	CSD:6242	Hearing Aids II		12
	CSD:7590	Research		2
	CSD:6291	Vestibular Assessment and Rehabilitation		9
Spring 2016	CSD:4098	Honors Thesis		1
	CSD:7590	Research		1
Fall 2015	CSD:4098	Honors Thesis		1
	CSD:1015	Intro to Speech & Hearing Proces & Disor		95
	CSD:7590	Research		1

	CSD:6291	Vestibular Assessment and Rehabilitation		5
Spring 2015	CSD:4165	Communication Disorders and Aging		33
	CSD:4098	Honors Thesis		1
	CSD:1015	Intro to Speech & Hearing Proces & Disor		26
Fall 2014	CSD:4098	Honors Thesis		1
	CSD:7590	Research		1
	CSD:6291	Vestibular Assessment and Rehabilitation		8
Spring 2014	003:098	Honors Thesis		2
	003:015	Intro to Speech & Hearing Proces & Disor		36
Fall 2013	003:098	Honors Thesis		2
	003:590	Research		1
	003:291	Vestibular Assessment and Rehabilitation		9
Spring 2013	003:240	Hearing Aids I		9
	003:098	Honors Thesis		1
Fall 2012	003:590	Research		1
	003:291	Vestibular Assessment and Rehabilitation		9

Innovations in Teaching

2020 Redesign CSD:5240 Hearing Aids I; to integrate classroom lectures and hands-on experiences in the Clinic Orientation course

Student Mentoring

PhD - Dissertation Committee Chair

2018 –2022 Jorgensen, Erik
Current position: Assistant Professor at Dept of Communication Sciences and Disorders, University of Wisconsin-Madison

2018 –2022 Venkitakrishnan, Soumya
Current position: Assistant Professor at Dept of Communication Sciences and Disorders, California State University-Sacramento

2016 - 2020 Kim, Subong (co-chair with Prof. Choi)
Current position: Assistant Professor at Dept of Communication Sciences and Disorders, Montclair State University

2015 - 2017 Giuliani, Nicholas (co-chair with Prof. Brown)
Current position: Assistant Professor at Department of Audiology & Speech Pathology, East Tennessee State University;
Audiologist, James H. Quillen VA Medical Center

PhD - Dissertation Committee Member

2021 - 2022 Vyas, Dhruv (computer science)

2015 - 2017 Hasan, Syed Shabih (computer science)

2015 - 2017 Wróblewski, Marcin

2014 - 2016 Mussoi, Bruna

2012 - 2013 Silberer, Amanda

PhD - Comprehensive Exam Committee Chair

2019 Jorgensen, Erik

2019 Venkitakrishnan, Soumya

PhD - Comprehensive Exam Committee Member

2023	Grama Bhagavan, Srividya
2023	Tay, Daniel
2020	Vyas, Dhruv (computer science)
2019	Sapp, Caitlin
2017	Kim, Subong
2017	Klein, Kelsey
2016	Tejani, Viral
2015	Hasan, Syed Shabih (computer science)
2012	Wróblewski, Marcin
2011	Lewis, James

AuD - Capstone Project Mentor

2022 - Present	Maryann Quigley
2021 - Present	Adelaide Bock
2021 - Present	Sam Smith
2020 - 2023	Megan Dorfler
2019 - 2022	Emory, Caroline
2019 - 2022	Kromer-Edwards, Meredith
2019 - 2021	Petty, Abigail
2018 - 2021	Jensen, Justin
2018 - 2019	Ostwinkle, Krista
2017 - 2020	Venkitakrishnan, Soumya
2017 - 2019	Rossio, Megan
2016 - 2017	Menscher, Rory
2015 - 2016	Brody, Lisa
2017 - 2019	Kim, Sieon
2015 - 2017	Bailey, Kelly
2014 - 2016	Wisecup, Nathaniel

BA - Undergraduate Honors Thesis

2015 - 2016	McSorley, Skylar
2014 - 2015	Eilers, Emily
2014 - 2015	Haverkamp, Tess
2013 - 2014	Kim, Sieon
2013 - 2014	Perkins, Joanna
2012 - 2014	Stone, Caitlin
2011 - 2013	Pang, Carol
2010 - 2012	Lentz, Emily
2009 - 2011	Fehlberg, Hannah

Student Mentoring Summary

Spring 2023	Honors advisor, # Students: 12
Spring 2023	Undergraduate Advisor, # Students: 14
Fall 2022	Honors advisor, # Students: 9
Fall 2021	Honors advisor, # Students: 8
Fall 2021	Undergraduate Advisor, # Students: 12
Spring 2021	Honors advisor, # Students: 5
Spring 2021	Undergraduate Advisor, # Students: 14
Fall 2020	Honors advisor, # Students: 5
Fall 2020	Undergraduate Advisor, # Students: 14
Spring 2020	Honors advisor, # Students: 7
Spring 2020	Undergraduate Advisor, # Students: 13
Fall 2019	Honors advisor, # Students: 7
Fall 2019	Undergraduate Advisor, # Students: 12
Spring 2019	Honors advisor, # Students: 10
Spring 2019	Undergraduate Advisor, # Students: 4
Fall 2018	Honors advisor, # Students: 10

Fall 2018
Spring 2018
Fall 2017

Undergraduate Advisor, # Students: 4
Honors advisor, # Students: 9
Honors advisor, # Students: 9

SCHOLARSHIP

Publications

CLAS * System * = Senior Author, Major Contribution, ** = Secondary Contribution, *** = Equal Contribution, **** = Minor Contribution
† = Student as the first author

Refereed Articles

1. *† Giuliani, N. P., Venkitakrishnan, S., & **Wu, Y. H.** (in press). Input-related demands: vocoded sentences evoke different pupillometrics and subjective listening effort than sentences in speech-shaped noise. *International Journal of Audiology*, DOI: 10.1080/14992027.2022.2150901.
2. * **Wu, Y. H.**, Stangl, E., Dunn, C. C. & Oleson, J. (2023) Entropy as a Measure of Auditory Environment Diversity: An Ecological Momentary Assessment (EMA) Approach. *Ear and Hearing*, 44(4), 917-923.
3. *† Jorgensen, E., Xu, J., Chipara, O., & **Wu, Y. H.** (2023) Auditory environment diversity quantified using entropy from real-world hearing aid data. *Frontiers in Digital Health*, 5:1141917. doi: 10.3389/fdgh.2023.1141917
4. *† Jorgensen, E., Xu, J., Chipara, O., Oleson, J., Galster, J., & **Wu, Y. H.** (2023). Auditory Environments and Hearing Aid Feature Activation Among Younger and Older Listeners in an Urban and Rural Area. *Ear and Hearing*, 44(3), 603-618.
5. *† Venkitakrishnan, S. & **Wu, Y. H.** (2023). Facial Expressions as an Index of Listening Difficulty and Emotional Response. *Seminars in Hearing*, 44(02), 166-187.
6. * **Wu, Y. H.**, Stangl, E., Oleson, J., Caraher, K., & Dunn, C. (2022). Personal Characteristics Associated with Ecological Momentary Assessment Compliance in Adult Cochlear Implant Candidates and Users. *Journal of the American Academy of Audiology*, 33(03), 158-169.
7. *** Vyas, D., Brummet, R., Anwar, Y., Jensen, J., Jorgensen, E., **Wu, Y. H.**, & Chipara, O. (2022). Personalizing over-the-counter hearing aids using pairwise comparisons. *Smart Health*, 23, 100231.
8. * Oleson, J. J., Jones, M. A., Jorgensen, E. J., & **Wu, Y. H.** (2022). Statistical Considerations for Analyzing Ecological Momentary Assessment Data. *Journal of Speech, Language, and Hearing Research*, 65(1), 344-360.
9. ***† Kim, S., **Wu, Y. H.**, Bharadwaj, H. M., & Choi, I. (2022). Effect of Noise Reduction on Cortical Speech-in-Noise Processing and Its Variance due to Individual Noise Tolerance. *Ear and Hearing*, 43(3), 849-861.
10. *† Jorgensen, E. J., Stangl, E., Chipara, O., Hernandez, H., Oleson, J., & **Wu, Y. H.** (2021). GPS predicts stability of listening environment characteristics in one location over time among older hearing aid users. *International Journal of Audiology*, 60(5), 328-340
11. * Dunn, C. C., Stangl, E., Oleson, J., Smith, M., Chipara, O., **Wu, Y. H.** (2021). The Influence of Forced Social Isolation on the Auditory Ecology and Psychosocial Functions of Listeners With Cochlear Implants During COVID-19 Mitigation Efforts. *Ear and Hearing*, 42, 20-28.
12. *† Urbanski, D., Hernandez, H., Oleson, J., & **Wu, Y. H.** (2021). Toward a new evidence-based fitting paradigm for over-the-counter hearing aids. *American Journal of Audiology*, 30 (1), 43-66.
13. * **Wu, Y. H.**, Xu, J., Stangl, E., Pentony, S., Vyas, D., Chipara, O., Gudjonsdottir, A., Oleson, J., & Galster, J. (2021). Why ecological momentary assessment surveys go incomplete? when it happens and how it impacts data. *Journal of the American Academy of Audiology*, 32(1), 016-026.
14. *† Guiliani, N.P., Brown, C.J., & **Wu, Y. H.** (2021). Comparisons of the sensitivity and reliability of multiple measures of listening effort. *Ear and Hearing*, 42(2), 465-474.
15. * **Wu, Y. H.**, Stangl, E., Chipara, O., Gudjonsdottir, A., Oleson, J., & Bentler, R. (2020). Comparison of in-situ and retrospective self-reports on assessing hearing aid outcomes. *Journal of the American Academy of Audiology*, 31(10), 746-762.
16. ** Xu, J., **Wu, Y. H.**, Crukley, J., Pentony, S., Galster, J. (2020). Using Smartphone-Based Ecological Momentary Assessment in Audiology Research: The Participants' Perspective. *American Journal of Audiology*, 29, 935-943.
17. *† Jensen, J., Vyas, D., Urbanski, D., Garudadri, H., Chipara, O., **Wu, Y. H.** (2020). Common Configurations of Real-Ear Aided Response Targets Prescribed by NAL-NL2 for Older Adults With Mild-to-Moderate

- Hearing Loss. *American Journal of Audiology*, 29, 460-475.
18. * **Wu, Y. H.**, Stangl, E., Chipara, O., Zhang, X. (2020). Test-retest Reliability of Ecological Momentary Assessment in Audiology Research. *Journal of the American Academy of Audiology*, 31, 599-612.
 19. * **Wu, Y. H.**, Stangl, E., Chipara, O., Hasan, S. S., DeVries, S., Oleson, J. (2019). Efficacy and Effectiveness of Advanced Hearing Aid Directional and Noise Reduction Technologies for Older Adults with Mild to Moderate Hearing Loss. *Ear and Hearing*, 40, 805-822.
 20. ** Kawaguchi, L., **Wu, Y. H.**, Miller, C. (2019). The Effects of Amplification on Listening Self-Efficacy in Adults with Sensorineural Hearing Loss. *American Journal of Audiology*, 28, 572-582.
 21. *** Miller, C. W., Bernstein, J. G., Zhang, X., **Wu, Y. H.**, Bentler, R. A., & Tremblay, K. (2018). The effects of static and moving spectral ripple sensitivity on unaided and aided speech perception in noise. *Journal of Speech, Language, and Hearing Research*, 61(12), 3113-3126.
 22. *[†] Brody, L., **Wu, Y. H.**, Stangl, E. (2018). A comparison of personal sound amplification products (PSAPs) and hearing aids in ecologically-relevant test environments. *American Journal of Audiology*, 27(4), 581-593.
 23. * **Wu, Y. H.**, Stangl, E., Chipara, O., Hasan, S. S., Welhaven, A., Oleson, J. (2018). Characteristics of Real-World Signal-to-noise Ratios and Speech Listening Situations of Older Adults with Mild-to-Moderate Hearing Loss. *Ear and Hearing*, 39(2), 293-304.
 24. *[†] Klein, K., **Wu, Y. H.**, Stangl, E., Bentler, R. A. (2018). Using a digital language processor to quantify the auditory environment and the effect of hearing aids for adults with hearing loss. *Journal of the American Academy of Audiology*, 29(4), 279-291.
 25. * **Wu, Y. H.**, Dumanch, K., Stangl, E., Miller, C., Tremblay, K. (2017). Is the Device-Oriented Subjective Outcome (DOSO) independent of personality? *Journal of the American Academy of Audiology*, 28(10), 932-940.
 26. * Hasan, S. S., Brummet, R., Chipara, O., & **Wu, Y. H.** (2017). Assessing the performance of hearing aids using surveys and audio data collected in situ. In 2017 IEEE Conference on Computer Communications Workshops (INFOCOM), 283-288.
 27. * Perreau, A. E., **Wu, Y. H.**, Tatge, B., Irwin, D., Corts, D. (2017). Listening effort measured in adults with normal hearing and cochlear implants. *Journal of the American Academy of Audiology*, 28(8), 685-697.
 28. ** Miller, C. W., Bentler, R. A., **Wu, Y. H.**, Lewis, J., Tremblay, K. (2017). Output signal-to-noise ratio and speech perception in noise: Effects of algorithm. *International Journal of Audiology*, 56(8), 568-579.
 29. ** Miller, C., Stewart, E. K., **Wu, Y. H.**, Bishop, C., Bentler, R. A., Tremblay, K. (2017). Working memory and speech recognition in noise under ecologically relevant listening conditions: Effects of visual cues and noise type among adults with hearing loss. *Journal of Speech, Language, and Hearing Research*, 60, 2310-2320.
 30. * **Wu, Y. H.**, Ho, C. H., Hsiao, S. H., Brummet, R. B., Octav, C. (2016). Predicting 3-month and 12-month Post-Fitting Real-World Hearing Aid Outcome using Pre-fitting Acceptable Noise Level (ANL). *International Journal of Audiology*, 55(5), 285-294.
 31. * **Wu, Y. H.**, Stangl, E., Zhang, X., Perkins, J., & Eilers, E. (2016). Psychometric functions of dual-task paradigms for measuring listening effort. *Ear and Hearing*, 37(6), 660-670.
 32. * **Wu, Y. H.**, Stangl, E., Zhang, X., Bentler, R. (2015). Construct Validity of the Ecological Momentary Assessment in Audiology Research. *Journal of the American Academy of Audiology*, 26, 872-884.
 33. ** Silberer, A., Bentler, R. A., **Wu, Y. H.** (2015). The importance of high-frequency audibility with and without visual cues on speech recognition for listeners with normal hearing. *International Journal of Audiology*, 54, 865-872.
 34. ***[†] Hasan, S. S., Brummet, R. B., Octav, C., **Wu, Y. H.**, Yang, T. (2015). In-situ Measurement and Prediction of Hearing Aid Outcomes using Mobile Phones (pp. 525 - 534). *IEEE International Conference on Healthcare Informatics (ICHI)*.
 35. * Zhang, X., **Wu, Y. H.** (2015). Directional microphones of modern hearing aids. *Journal of Audiology and Speech Pathology*, 23, pp. 301-306.
 36. * **Wu, Y. H.**, Aksan, N., Rizzo, M., Stangl, E., Zhang, X., Bentler, R. (2014). Measuring Listening Effort: Driving Simulator Versus Simple Dual-Task Paradigm. *Ear and Hearing*, 35, 623-632.
 37. * **Wu, Y. H.**, Stangl, E., Pang, C., Zhang, X. (2014). The Effect of Audiovisual and Binaural Listening on the Acceptable Noise Level (ANL): Establishing an ANL Conceptual Model. *Journal of the American Academy of Audiology*, 25, 141-153.
 38. ***[†] Hasan, S., Chipara, O., **Wu, Y. H.**, Aksan, N. (2014). Evaluating Auditory Contexts and Their Impacts on Hearing Aid Outcomes with Mobile Phones (pp. 126-133). *Pervasive Computing Technologies for*

Healthcare.

39. * Ho, C. H., **Wu, Y. H.**, Hsiao, S. H., Stangl, E., Lentz, E., Bentler, B. A. (2013). Acceptable noise level (ANL) and real-world hearing-aid success in Taiwanese listeners. *International Journal of Audiology*, 52, 762–770.
40. * **Wu, Y. H.**, Stangl, E., Bentler, R. A. (2013). Hearing-aid users ' voices: A factor that could affect directional benefit. *International Journal of Audiology*, 52, 789–794.
41. * **Wu, Y. H.**, Stangl, E. (2013). The Effect of Hearing Aid Signal Processing Schemes on Acceptable Noise Levels: Perception and Prediction. *Ear and Hearing*, 34, 333-341.
42. **† Hasan, S., Lai, F., Chipara, O., **Wu, Y. H.** (2013). AudioSense: Enabling Real-time Evaluation of Hearing Aid Technology In-Situ (pp. 143-148). *International Symposium on Computer-Based Medical Systems (CBMS)*.
43. * **Wu, Y. H.**, Stangl, E., Bentler, R. A., Stanziola, R. W. (2013). The effect of hearing aid technologies on listening in an automobile. *Journal of the American Academy of Audiology*, 24, 474–485.
44. * Ho, C. H., **Wu, Y. H.**, Hsiao, S. H., Stangl, E., Lentz, E., Bentler, R. A. (2013). The equivalence of acceptable noise level (ANL) with English, Mandarin, and non-semantic speech: A study across the U.S. and Taiwan. *International Journal of Audiology*, 52, 83-91.
45. * **Wu, Y. H.**, Bentler, R. A. (2012). Clinical measures of directivity: the assumption, accuracy, and reliability. *Ear and Hearing*, 33, 44-56.
46. * **Wu, Y. H.**, Bentler, R. A. (2012). Do older adults have social lifestyles that place fewer demands on hearing? *Journal of the American Academy of Audiology*, 23, 697-711.
47. * **Wu, Y. H.**, Bentler, R. A. (2012). The effect of reverberation on audio-visual directional microphone benefit: Perception and prediction. *Ear and Hearing*, 33, 604-614.
48. * **Wu, Y. H.**, Bentler, R. A. (2011). A method to measure hearing aid directivity index and polar pattern in small and reverberant enclosures. *International Journal of Audiology*, 50, 405-416.
49. * **Wu, Y. H.**, Bentler, R. A. (2010). Impact of visual cues on directional benefit and preference: Part 1 - laboratory tests. *Ear and Hearing*, 31, 22-34.
50. * **Wu, Y. H.**, Bentler, R. A. (2010). Impact of visual cues on directional benefit and preference: Part 2 - field tests. *Ear and Hearing*, 31, 35-46.
51. * **Wu, Y. H.** (2010). The effect of age on directional microphone hearing aid benefit and preference. *Journal of the American Academy of Audiology*, 21, 78-89.
52. * **Wu, Y. H.**, Bentler, R. A. (2009). Using a signal cancellation technique involving impulse response to assess directivity of hearing aids. *Journal of the Acoustical Society of America*, 126, 3214-3226.
53. ** Bentler, R. A., **Wu, Y. H.**, Kettel, J., Hurtig, R. (2008). Digital Noise Reduction: Outcomes from laboratory and field studies. *International Journal of Audiology*, 47, 447-460.
54. * **Wu, Y. H.**, Bentler, R. A. (2007). Using a signal cancellation technique to assess adaptive directivity of hearing aids. *Journal of the Acoustical Society of America*, 122, 496-511.
55. * **Wu, Y. H.**, Ho, H. C., Lin, Y. L., Lai, Y. M. (2003). Changing the sequence of ENT examination and upper GI endoscopy can reduce failure rates for indirect nasopharyngoscopy and indirect laryngoscopy in health examinations. *Tzu Chi Medical Journal*, 15, 377-381.

Complete List of Published Work in MyBibliography:

<http://www.ncbi.nlm.nih.gov/sites/myncbi/yu-hsiang.wu.1/bibliography/44091006/public/?sort=date&direction=descending>.

Non-refereed Articles

1. ** Mueller, G., Stangl, E., & **Wu, Y. H.** (2021). Comparing MPOs from six different hearing aid manufacturers: Headroom considerations. *Hearing Review*. 28(4), 10-16.
2. ** Sabin, A., Jensen, J., Chipara, O., & **Wu, Y. H.** (2021). Comparing population coverage between hearing aids using presets vs Bose CustomTune. *Hearing Review*. 28(6), 28-29.
3. *† Urbanski, D. & **Wu, Y. H.** (2021). New evidence-based fitting paradigm for over-the-counter hearing aids. *Hearing Journal*, 74(4), 16-18.
4. ** Littmann, V., **Wu, Y. H.**, Froehlich, M., Powers, T. A. (2017). Multi-center evidence of reduced listening effort using new hearing aid technology. *Hearing Review*, 24(2), 32-34.
5. ** Chalupper, J., **Wu, Y. H.**, Weber, J. (2011). SpeechFocus - A new automatic directional microphone

system for special listening situations. *Hearing Journal*, 64(1), 22-26.

6. ** Mueller, H. G., Bentler, R. A., **Wu, Y. H.** (2008). Prescribing maximum hearing aid output: Differences among manufacturers found. *Hearing Journal*, 61, 30-36.
7. ** Bentler, R. A., **Wu, Y. H.**, Jeon, J. (2006). Effectiveness of directional microphones in open-canal fittings. *Hearing Journal*, 59, 40-47.

Book Chapters

1. **Wu, Y. H.**, Bentler, R. A. (2014). Use of Directional Microphone Technologies to Improve User Performance in Noise. M. M. Metz (Ed.), *Sandlin's Textbook of Hearing Aid Amplification: Technical and Clinical Consideration*. San Diego: Plural Publishing Inc.
2. Bentler, R. A., **Wu, Y. H.** (2013). Developments in hearing aid technology and verification techniques. J.J. Montana & J.B. Spitzer (Eds.), *Advanced Practice in Adult Audiologic Rehabilitation*. San Diego: Plural Publishing Inc.

Software

2018 – present AudioSense – Software platform for evaluating hearing aids using Ecological Momentary Assessment and sensor data (co-developed with Prof. Chipara at Computer Science, see https://msl.cs.uiowa.edu/project_ha.html)

Grants and Contracts

Funded

- July 2023 - July 2027 *Shallow and Deep Personalization for Hearing Aids*
 NSF. PI: Chipara, O. Total funds: \$1,199,085
 The goal of the project is to develop (1) novel reinforcement learning approaches for configuring OTC hearing aids whose configurations change based on the auditory environments and (2) novel deep neural network hearing aids trained to promote effective speech processing as quantified using EEG.
 Role: **Co-PI**
- May 2023 - May 2028 *Iowa Cochlear Implant Clinical Research Center VIII (P50 DC000242)*
 Funded by NIH/NIDCD. PI: Gantz, B. Total funds: \$13,801,260
 The goal of Project 4 is to identify challenging listening situations that cochlear implant users encounter in daily life and examine factors that predict real-world speech perception and quality of life.
 Role: **MPI of Project 4** (Human Ecology)
- Dec 2021 - Dec 2023 *Ecological Momentary Assessment Research*
 Funded by Meta. PI: Wu, Y.H. Total funds: \$617,902
 The goal of this project is to develop and validate novel ecological momentary assessment methodology.
 Role: **PI**
- Apr 2021 – Apr 2022 *Clinical Claims Study of the BHA100 Series Braun Clear Hearing Aid*
 Funded by Helen of Troy. PI: Wu, Y.H. Total funds: \$75,131
 The goal of the project is to determine the real-world effectiveness of a new over-the-counter hearing aid.
 Role: **PI**
- Dec 2020 – Dec 2021 *Clinical Validation Study of the BHA100 Series Braun Clear Hearing Aid*
 Funded by Helen of Troy. PI: Wu, Y.H. Total funds: \$90,720
 The goal of the project is to compare the self-fitting method of a new over-the-counter hearing aid with audiologist-fit hearing aids.
 Role: **PI**
- Nov 2019 - Nov 2020 *Hearing Aids in Complex Listening Situations*
 Funded by Sivantos, Inc. PI: Wu, Y.H. Total funds: \$70,378
 The goal of the project is to determine the real-world effectiveness of a new hearing aid feature designed to improve listening in complex listening environments.

- Role: **PI**
- Sep 2019 - Sep 2024 *Optimizing the Wireless Ecosystem for Hearing Aids (90REGE0013-01-00)*
 Funded by National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR). PI: Vogler, C. Total funds: \$535,458 (subcontract from Gallaudet University)
 The purpose of the project, which is part of the RERC center grant, is to develop new toolkit, which will simplify the development of apps that can integrate hearing aids with Internet-of-Thing devices, edge computing devices, and cloud services.
- Role: **PI of Project D2**
- Jan 2019 - Jan 2022 *Framework for Optimizing Hearing Aids in Situ Based on Patient Feedback, Auditory Context, and Audiologist Input (IIS-1838830)*
 Funded by NSF. PI: Chipara, C. Total funds: \$701,956
 The goal of this project is to develop a framework to implement in-field hearing aid optimization.
- Role: **Co-PI**
- May 2019 - May 2023 *Cost-effective hearing aid delivery models for older adults with dementias and hearing loss (R01 DC015997-02S1, supplement award)*
 Funded by NIH/NIDCD. PI: Wu, Y.H. Total funds: \$379,432
 The goal of this supplement grant is to determine the best hearing aid service-delivery for older adults with dementias.
- Role: **PI**
- May 2018 - May 2023 *Cost-effective hearing aid delivery models: Outcomes, value, and candidacy (R01 DC015997)*
 Funded by NIH/NIDCD. PI: Wu, Y.H. Total funds: \$1,675,548
 The goal of this project is to determine the outcomes, value, and candidacy of various hearing aid technologies and service-delivery models.
- Role: **PI**
- Jan 2018 - Jun 2019 *Optimizing over-the-counter hearing aids*
 Funded by Retirement Research Foundation. PI: Wu, Y.H. Total funds: \$114,521
 The goal of this project is to develop a new fitting paradigm for non-customized hearing aids.
- Role: **PI**
- Dec 2017 - Dec 2022 *Iowa Cochlear Implant Clinical Research Center VII (P50 DC000242)*
 Funded by NIH/NIDCD. PI: Gantz, B. Total funds: \$12,269,791
 The goal of Project 1 is to characterize the longitudinal trajectory of cochlear implant outcome in the real world.
- Role: **Co-I of Project 1 (Human Ecology)**
- Jan 2017 - Dec 2017 *An empirical model for auditory ecology*
 Funded by Starkey Inc. PI: Wu, Y.H. Total funds: \$50,000
 The goal of the project is to develop a real-time data logging system that can be integrated with smartphones to characterize an individual's auditory ecology.
- Role: **PI**
- Jan 2017 - Dec 2017 *Method for Context-Sensitive Evaluation of Hearing Aid Technology in Situ*
 Funded by Center on Aging Mind and Brain Initiative, University of Iowa. PI: Chipara, C., Total funds: \$25,000
- Role: **Co-I**
- Jul 2016 - Dec 2017 *Compact super-directional microphone array to improve hearing in background noise (R44DC014169)*
 Funded by NIH/NIDCD. PI: Elko, G. Total funds: \$284,863 (subcontract from MH Acoustics, Inc.)
 The goal of the project is to determine the benefit of a new remote microphone on speech understanding

- Role: **Co-I**
- Jan 2016 - Dec 2016 *Impact of hearing aid features on listening effort: An EEG study*
 Funded by Sivantos, Inc. PI: Wu, Y.H. Total funds: \$57,193
 The goal is to determine how hearing aid noise reduction could reduce listening effort measured using EEG
 Role: **PI**
- Aug 2015 - Aug 2016 *Evaluation of Samsung Hearing Aids*
 Funded by Samsung Electronics Co., Ltd. PI: Bentler, R. Total funds: \$310,962
 The goal is to compare the real-world effectiveness of new Samsung hearing aids with hearing aids from a major manufacturer.
 Role: **Co-PI**
- Jan 2015 - Jan 2016 *Enabling cognitive load-dependent real-time assessment of hearing aid outcomes*
 Funded by Center on Aging Mind and Brain Initiative, University of Iowa. PI: Chipara, C. Total funds: \$25,000
 Role: **Co-I**
- Jan 2014 - Jan 2015 *Impact of directional microphone systems on speech recognition and localization for special listening situations*
 Funded by Siemens Hearing Instruments, Inc. PI: Wu, Y.H. Total funds: \$45,887
 The goal of the project is to determine the benefit of a directional microphone feature in listening in cars.
 Role: **PI**
- Oct 2014 - Oct 2018 *Context-sensitive assessment of real-world situations via integrated smartphones and hearing aids (90RE5020-01-00)*
 Funded by National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR). PI: Vogler, C. Total funds: \$644,586 (subcontract from Gallaudet University)
 The purpose of the project, which is part of the RERC center grant, is to develop a system that uses the connection between smartphones and hearing aids to conduct context-sensitive assessments.
 Role: **PI of Project D2**
- Jan 2014 - Jan 2015 *Measuring Listening Effort: Developing Psychometric Functions and Adaptive Testing Procedures for the Dual-Task Paradigm*
 Funded by ASHFoundation. PI: Wu, Y.H. Total funds: \$10,000
 The goal of the study is to (1) determine the psychometric function of listening effort and (2) develop a novel way to measure listening effort.
 Role: **PI**
- Nov 2013 - Nov 2014 *Systematically Investigating the Effect of Directional Speech Enhancement on Listening Effort*
 Funded by Siemens Hearing Instruments, PI: Wu, Y.H. Total funds: \$33,957
 Role: **PI**
- Feb 2013 - Feb 2018 *Linking SNR to hearing aid success (R01DC012769)*
 Funded by NIDCD/NIH. PI: Tremblay, K. Total funds: \$466,580 (subcontract from University of Washington)
 The goal of this project is to investigate how brain responses to signal-to-noise ratio at the output of hearing aids and how this relationship affects hearing aid success.
 Role: **Co-I**
- Jan 2013 - Jan 2014 *Acceptable Noise Levels (ANL): A trait or a state?*
 Funded by Dalin Tzu Chi General Hospital, Taiwan. PI: Wu, Y.H. Total funds: ~\$10,000
 The goal of this project is to investigate the extent to which the ANL test taps stable (i.e., personality trait and noise sensitivity) and unstable (i.e., mood state) variance of an individual's psychological characteristics.

- Role: **PI**.
- Jan 2013 - Jan 2014 *Understanding and enhancing driver-to-driver communication to improve older driver safety during left turns across traffic*
Funded by Injury Prevention Research Center, University of Iowa. PI: Kitazaki, S.
Total funds: \$25,000
Role: **Investigator**
- Sep 2012 - Sep 2015 *Minimal technologies for hearing aid success in elderly adults (R03 DC012551)*
Funded by NIDCD/NIH. PI: Wu, Y.H. Total funds: \$445,450
The goal of this project is to use novel hearing aid outcome measures to investigate real-world efficacy of hearing aid technologies in elderly adults.
Role: **PI**
- July 2011 - July 2012 *Establishing a conceptual model of the Acceptable Noise Level Test (ANL)*
Funded by American Academy of Audiology. Wu, Y.H. Total funds: \$10,000
The goal of the proposed research is to establish a conceptual model that elucidates the mechanism underlying the Acceptable Noise Level Test (ANL).
Role: **PI**
- Nov 2011 - Nov 2012 *Evaluating the effectiveness of new hearing aid technologies in car listening situations*
Funded by Siemens Hearing Instruments, Inc. PI: Bentler, R. Total funds: \$72,325
Role: **Investigator**
- Jan 2010 - Jan 2012 *Acceptable Noise Level Test (ANL): The use of ANL in a non-English-speaking culture*
Funded by Dalin Tzu Chi General Hospital, Taiwan. PI: Wu, Y.H. Total funds: ~\$20,000
Role: **PI**
- Jan 2010 - Jan 2012 *Impact of a new automatic directional microphone system for special listening situations*
Funded by Siemens Hearing Instruments, Inc. PI: Bentler, R. Total funds: \$47,149.00
Role: **Investigator**
- Jan 2008 - Dec 2010 *Directional microphones: A systematic evaluation of directional microphones in natural environments*
Funded by Department of Education/National Institute on Disability and Rehabilitation Research (NIDRR). PI: Mahshie, J. & Bakke, M. Total funds: \$878,076 (subcontract from Gallaudet University).
Role: **Investigator**
- Jan 2006 - Dec 2007 *Impact of visual cues on directional benefit and preference*
Funded by ASHFoundation. PI: Wu, Y.H. Total funds: \$5,000
Role: **PI**
- Pending**
- 2024 - 2029 *Barriers and facilitators to over-the-counter hearing aids success: A patient journey approach (R01)*
NIH/NIDCD. PI: Wu, Y.H. Total funds: \$3,827,750
The goal is to identify the barriers and facilitators to over-the-counter (OTC) hearing aids success by characterizing the entire OTC patient journey and compare that with the traditional hearing aid journey.
Role: **PI**

Invited Lectures and Conference Presentations

1. Bock, S.A., Wu, Y.H., Chipara, O., Arnold, M., Xu, J. & Jorgensen, E. (2023). [The effect of demographic diversity on auditory lifestyle](#). Poster presented at the annual Meeting of the American Academy of Audiology, Seattle, WA.
2. Jorgensen, E., Wu, Y.H., Chipara, O., & Vyas, D. (2023). [Optimizing and evaluating hearing-aid self-fitting methods using population coverage](#). Poster presented at The Annual Conference of the American Auditory Society, Scottsdale, AZ.

3. Wu, Y.H., Brummet, R., Smith, S., Stangl, E., Oleson, J., Miller, C., & Chipara, O. (2023). [Optimal response format for microinteraction-based Ecological Momentary Assessment \(micro-EMA\)](#). Podium presentation at The Annual Conference of the American Auditory Society, Scottsdale, AZ.
4. Wu, Y.H., Dorfler, M.A., & Stangl, E. (2023). [Can in-situ self-reports prevent narrative effects? An EMA study](#). Podium presentation at The Annual Conference of the American Auditory Society, Scottsdale, AZ.
5. Dorfler, M.A., Stangl, E., & Wu, Y.H. (2022). [Investigating the placebo effect on hearing aid fitting](#). Poster presented at the American Speech-Language-Hearing Association 2022 Convention, New Orleans, United States.
6. Jorgensen, E., Vyas, D., Anwar, Y., Chipara, O., & Wu, Y.H. (2022). [Development and feasibility of using an open-source portable hearing aid with EMA in the real world](#). Poster presented at the biennial International Hearing Aid Research Conference, Tahoe City, CA.
7. Venkitakrishnan, S., & Wu, Y.H. (2022). [Remote and lab measurement of facial expressions as a measure of emotional responses](#). Poster presented at the biennial International Hearing Aid Research Conference, Tahoe City, CA.
8. Jorgensen, E., Vyas, D., Anwar, Y., Jensen, J., Chipara, O., & Wu, Y.H. (2022). [Effects of entropy in real-world noise on speech perception](#). Poster presented at The Annual Conference of the American Auditory Society, Scottsdale, AZ.
9. Auriemma, C., Wu, Y.H., & Ricketts, T. (2022). [Examining barriers to satisfaction in adults receiving over-the-counter hearing aids](#). Poster presented at The Annual Conference of the American Auditory Society, Scottsdale, AZ.
10. Wu, Y.H., Stangl, E., Schmidt, J., & Dunn, C. (2022) [Ecological Momentary Assessment \(EMA\) in Hearing Research: Psychometric Characteristics, Limitations, and Opportunities](#). Podium presentation at ARO MidWinter Virtual Meeting, Symposia titled *Auditory Cognition in Cochlear Implants: Scene Analysis, Attention, Effort, and Real-World Communications*.
11. Jorgensen, E., Choi, I., & Wu, Y.H., (2021). [Effect of entropy in real-world noise on speech perception](#). Presented at the 181st meeting of Acoustical Society of America. Seattle, WA, United States.
12. Chipara, O. (2021). [Hearing aids and Internet-of-Things ecosystem](#). Keynote presentations at IEEE Global Humanitarian Technology Conference (GHTC).
13. Venkitakrishnan, S., Urbanski, D., & Wu, Y. H., (2021, November 18-20). [Performance and preference for pre-configured vs. audiologist-programmed hearing aids](#). Presented virtually at the American Speech-Language-Hearing Association 2021 Convention, Washington D.C., United States.
14. Venkitakrishnan, S., Giuliani, N., & Wu, Y. H., (2021, November 18-20). [Examining Emotional Responses to speech in noise using facial expressions](#). Presented virtually at the American Speech-Language-Hearing Association 2021 Convention, Washington D.C., United States.
15. Kromer-Edwards, M., & Wu, Y.H. (2021, April 29). [Long-term outcomes of over the counter hearing aids](#). Presented virtually at the University of Iowa's 2021 Jakobsen Conference, Iowa City, IA, United States.
16. Cross, C., Stangl, E., Kromer-Edwards, M., & Wu, Y.H. (2021). [Comparison of in-situ vs. retrospective assessment of hearing aid outcomes on the Glasgow Hearing Aid Benefit Profile](#). Poster presented in the Virtual Poster Hall of the Annual meeting of the Iowa Speech-Language-Hearing Association.
17. Jorgensen, E., Vyas, D., Anwar, Y., Chipara, O., & Wu, Y.H. (2021). [Quantifying hearing aid users' auditory ecology with a deep neural net](#). Poster presented in the Virtual Poster Hall of the Annual Conference of the American Auditory Society.
18. Jensen, J., Vyas, D., Anwar, Y., Jorgensen, E., Chipara, O., & Wu, Y.H. (2021). [Improving hearing aid personalization algorithm efficiency with user preference correlations](#). Poster presented in the Virtual Poster Hall of the Annual Conference of the American Auditory Society.
19. Xu, J., Wu, Y.H., Stangl, E., Pentony, S., & Galster, J. (2021). [Relationship between EMA and standard questionnaire in evaluating speech understanding](#). Poster presented in the Virtual Poster Hall of the Annual Conference of the American Auditory Society.
20. Venkitakrishnan, S., Giuliani N., & Wu, Y. H. (2020). [Can facial expression measure listening difficulty?](#) Poster presented in the Virtual Poster Hall of the Annual Meeting of the American Academy of Audiology.
21. Kim, S., Wu, Y. H., & Choi, I. (2020). [Electroencephalography-based Optimization of Noise Reduction in Hearing Aids](#). Poster presentation at the 43rd Annual MidWinter Meeting of the Association for Research in Otolaryngology, San Jose, CA.
22. Jensen, J., Vyas, D., Garudadri, H., Chipara, O., & Wu, Y. H. (2020). [Evaluation of hearing aid personalization algorithms](#). Poster presented at The Annual Conference of the American Auditory Society, Scottsdale, AZ.

23. Jorgensen, E. Chipara, O., Xu, J., & Wu, Y. H. (2020). [Use of entropy to quantify real world listening environments and effects on listening performance](#). Poster presented at The Annual Conference of the American Auditory Society, Scottsdale, AZ.
24. Venkitakrishnan, S., Urbanski, D., & Wu, Y. H. (2020). [Non-customized gain frequency responses for pre-configured hearing aids: A clinical trial](#). Poster presented at The Annual Conference of the American Auditory Society, Scottsdale, AZ.
25. Chipara, O., Wu, Y.H., & Garudadri, H. (2020). [A framework for optimizing hearing aids in situ based on patient feedback, auditory context, and audiologist input](#). Poster presented at The National Science Foundation's Advancing Health Through Science Smart Health Workshop, Boston, MA.
26. Bose, A., Gan, Z., Sengupta, D. Chipara, O., Wu, Y.H., & Garudadri, H. (2020). [Self-fit generation of wide dynamic range compression parameters for hearing aids](#). Poster presented at The National Science Foundation's Advancing Health Through Science Smart Health Workshop, Boston, MA.
27. Venkitakrishnan, S., Urbanski, D., & Wu, Y. H. (2020). [Validation of a fitting method for over-the-counter hearing aids: A clinical trial](#). Poster presented at: The Association for Research in Otolaryngology Annual Conference, San Jose, CA.
28. Petty, A., Wu, Y.H., & Stangl, E. (2019). [Consistency of hearing aid troubleshooting across clinicians](#). Poster presented at: The Iowa Speech-Language Hearing Association Annual Conference, Des Moines, IA.
29. Urbanski, D.P. & Wu, Y.H. (2019). [User's preferred gain-frequency](#). Poster presented at: The Academy Research Conference (ARC) of the Annual Conference of the American Academy of Audiology, Columbus, OH.
30. Jensen, J., Vyas, D., Hossain, K., Garudari, H., Chipara, O. & Wu, Y.H. (2019). [Enabling automatic in-field hearing aid optimization](#). Poster presented at: The Annual Conference of the American Auditory Society, Scottsdale, AZ.
31. Urbanski, D.P. & Wu, Y.H., Hernandez, H. & Oleson, J. (2019). [Toward a new evidence-based fitting paradigm for OTC Hearing Aids](#). Poster presented at: The Annual Conference of the American Auditory Society, Scottsdale, AZ.
32. Urbanski, D.P. & Wu, Y.H. (2019). [Development of evidence-based gain-frequency responses for preconfigured OTC hearing aids](#). Poster presented at: The Annual Conference of the American Auditory Society, Scottsdale, AZ.
33. Venkitakrishnan, S., Giuliani, N. & Wu, Y.H. (2019). [Facial expression as an indicator of listening difficulty](#). Poster presented at: The Annual Conference of the American Auditory Society, Scottsdale, AZ.
34. Jorgensen, E., Wu, Y.H., Chipara, O., Oleson, J. (2018). [Temporal stability of auditory ecology among adult hearing aid users](#). Poster presented at: The 10th biennial International Hearing Aid Research Conference, Tahoe City, CA.
35. Pentony, S., Xu, J., Wu, Y.H., Galster, J. (2018). [Using Ecological Momentary Assessment in Audiology Research: The Participants' Perspective](#). Poster presented at: The Annual Conference of the American Auditory Society, Scottsdale, AZ.
36. Hone, G., Miller, C., Lee, M., Wu, Y.H., Bentler, R.A., & Tremblay, K (2018). [Linking Signal-to-Noise Ratio to Hearing Aid Success](#). Poster presented at: The Annual Conference of the American Auditory Society, Scottsdale, AZ.
37. Kawaguchi, L., Miller, C., Wu, Y.H., & Bentler, R.A. (2018). [The Effects of Amplification on Listening Self-Efficacy in Hearing Aid Users](#). Poster presented at: The Annual Conference of the American Auditory Society, Scottsdale, AZ.
38. Kim, S., Wu, Y.H., Xu, J., Galster, J., Pentony, S., & Chipara, O. (2018) [Relationship between automatic behavior of directional microphone and listening effort](#). Poster presented at: The Annual Conference of the American Auditory Society, Scottsdale, AZ.
39. Brody, L., Wu, Y.H., & Stangl, E. (2017). [Comparison of hearing aids and PSAPs in ecologically relevant situations](#). Poster presented at: The Annual Conference of the American Auditory Society , Scottsdale, AZ.
40. Hidedohrn, C., Miller, C., Wu, Y.H., Bentler, R.A., & Tremblay, K. (2017). [Defining hearing aid success for adults: A comparison of three models](#). Poster presented at: The Annual Convention of the American Academy of Audiology, Indianapolis, IN.
41. Osborne, S., Miller, C., Tremblay, K., Saunders, G., Wu, Y.H., & Bentler, R.A. (2017). [Accurate estimation of abilities to understand speech in noise: Effects of personality](#). Poster presented at: The Annual Convention of the American Academy of Audiology, Indianapolis, IN

42. Tatge, B., Walker, E., & Wu, Y.H. (2017). Fixed-Level vs Fixed-Performance Dual Task Procedures to Evaluate Listening Effort in Children. Poster presented at: The Annual Convention of the American Academy of Audiology, Indianapolis, IN.
43. Smith, M., Lee, M., Miller, C., Tremblay, K., Wu, Y.H., & Bentler, R.A. (2017). [Are Variations in Speech-In-Noise Thresholds Related to Central Inhibitory Function?](#) Poster presented at: The Annual Convention of the American Academy of Audiology, Indianapolis, IN.
44. Stangl, E., Wu, Y.H., Miller, C., Tremblay, K., & Bentler, R. (2017). [Self-reported listening predicts real-world amplification outcomes](#). Poster presented at: The Annual Conference of the American Auditory Society, Scottsdale, AZ.
45. Bailey, K., Wu, Y.H., & Nelson, H. (2016). [The Effect and Interaction of Hearing Aid Technologies on Listening Effort](#). Poster presented at: The Annual Convention of the American Academy of Audiology, Chicago, IL.
46. Dumanch, K., Wu, Y.H., Stangl, E., Bentler, R.A., Miller, C., Bishop, C., & Tremblay, K. (2016). [Is the Device-Oriented Subjective Outcome \(DOSO\) Independent of Personality?](#) Poster presented at: The Annual Conference of the American Auditory Society, Scottsdale, AZ.
47. Kim, S., Wu, H.S., Bentler, R.A., Miller, C., Bishop, C., & Tremblay, K. (2016). [Contribution of Aided Audibility to Real-world Hearing Aid Outcomes](#). Poster presented at: The Annual Conference of the American Auditory Society, Scottsdale, AZ.
48. McSorely, S., Wu, Y.H., & Stangl, E. (2016). [Using a more ecologically valid test to measure hearing aid outcomes](#). Poster presented at: The Spring Undergraduate Research Festival, The University of Iowa, Iowa City, IA.
49. Trapp, K., Miller, C., Bishop, C., Lee, M., Wu, Y.H., Bentler, R.A., & Tremblay, K. (2016). [Predicting hearing aid success from characteristics of the psychometric function for speech perception in noise](#). Poster presented at: The 8th biennial International Hearing Aid Research Conference, Tahoe City, CA.
50. Eilers, E., Wu, Y.H., Stangl, E. & Bentler, R.A. (2015). [Listening Effort: Psychometric Functions of Dual-Task Paradigms](#). Poster presented at: Annual Convention of the American Speech-Language Hearing Association, Denver, CO.
51. Haverkamp, T., Wu, Y.H., & Stangl, E. (2015). [List Equivalency in the Measurement of Listening Effort: Use of SPIN Lists in a Dual-Task Paradigm](#). Poster presented at: Annual Convention of the American Speech-Language Hearing Association, Denver, CO.
52. Klein, K., Wu, Y.H., & Bentler, R.A. (2015). [TV & Speech Levels as Objective Real-World Hearing Aid Outcome Measures](#). Poster presented at: Annual Convention of the American Speech-Language Hearing Association, Denver, CO.
53. Klein, K., Bentler, R.A., & Wu, Y.H. (2015). [Use of LENA to quantify hearing aid outcomes](#). Poster presented at: The Annual Conference of the American Auditory Society, Scottsdale, AZ.
54. Wu, Y.H., & Stangl, E. (2015). [Is the ecological momentary assessment a valid methodology in audiology?](#) Poster presented at: The Annual Conference of the American Auditory Society, Scottsdale, AZ.
55. Kim, S., Wu, Y.H. & Stangl, E. (2014). [Measuring Listening Effort: Adaptive testing procedure for a dual-task paradigm](#). Poster presented at: The Spring Undergraduate Research Festival, The University of Iowa, Iowa City, IA.
56. Perkins, J., Wu, Y.H., & Stangl, E. (2014). [Measuring Listening Effort: The paradoxical effect of noise on listening effort](#). Poster presented at: The Spring Undergraduate Research Festival, The University of Iowa, Iowa City, IA.
57. Perreau, A., Wu, Y.H., McFarlin & Turner, C. (2014). Comparison of Front-Back Sound Localization Accuracy Among ITC and BTE Hearing Aids. Poster presented at: The Annual Convention of the American Speech-Language Hearing Association, Orlando, FL.
58. Silberer, A.B., Bentler, R.A., & Wu, Y.H. (2014). [Importance of high frequency audibility on speech recognition with and without visual cues in listeners with normal hearing](#). Poster presented at: The Annual Conference of the American Auditory Society, Scottsdale, AZ.
59. Wu, Y.H., Stangl, E., & Perkins, J. (2014). [New insight regarding psychometric functions of dual-task paradigms](#). Poster presented at: The Annual Conference of the American Auditory Society, Scottsdale, AZ.
60. Stone, C., Wu, Y.H., Stangl, E., & Bahr, A. (2013). The effect of compression time constant on speech recognition. Poster presented at: The Spring Undergraduate Research Festival, The University of Iowa, Iowa City, IA.
61. Hartling, C., Wu, Y.H., & Bentler, R.A. (2012). [Hearing aid algorithm stability: Hagerman's phase-inversion technique](#). Poster presented at: The Annual Conference of the American Auditory Society, Scottsdale, AZ.

62. Miller, C., Wu, Y.H., & Bentler, R.A. (2012). [The potential for using Hagerman's phase-inversion technique with individual fittings](#). Poster presented at: The 7th biennial International Hearing Aid Research Conference, Tahoe City, CA.
63. Miller, C., Bentler, R.A., Tremblay, & Wu, Y.H. (2012). [The relationship between the Hagerman-derived signal-to-noise ratio and speech perception](#). Poster presented at: The Annual Conference of the American Auditory Society, Scottsdale, AZ.
64. Pang, C.W., Wu, Y.H., Bentler, R.A. & Stangl, E. (2012). The effect of audiovisual and binaural listening on Acceptable Noise Level (ANL) judgment. Poster presented at: The Spring Undergraduate Research Festival, The University of Iowa, Iowa City, IA.
65. Stangl, E., Wu, Y.H., Stanziola, R.W., & Bentler, R.A. (2012). [The effect of hearing aid technologies on listening in an automobile](#). Poster presented at: The 7th biennial International Hearing Aid Research Conference, Tahoe City, CA.
66. Stanziola, R.W., Wu, Y.H., Stangl, E. & Bentler, R.A. (2012). [The effect of hearing aid technologies on speech recognition in cars](#). Poster presented at: The Annual Convention of the American Academy of Audiology, Boston, MA.
67. Bentler, R.A., Cole, B. & Wu, Y.H. (2011). [Deriving an audibility index for frequency-lowered hearing aids](#). Poster presented at: The Annual Conference of the American Auditory Society, Scottsdale, AZ.
68. Bentler, R.A., Kirby, B., Stiles, D., Perk, K., Wu, Y.H., & Challuper, J. (2010). Impact of digital noise reduction on pediatric performance. Poster presented at: The Annual Convention of the American Academy of Audiology, San Diego, CA.
69. Bentler, R.A., Wu, Y.H., Hayes, D., Gay, P., & Stangl, E. (2010). Impact of user control versus traditional fitting on hearing aid outcomes. The Annual Convention of the American Academy of Audiology, San Diego, CA.
70. Bentler, R.A., Wu, Y.H., Tomblin, J.B. & Moeller, M.P. (2010). [Acoustic considerations in LENA protocols](#). Poster presented at: The First LENA Users Conference, Denver CO.
71. Wu, H.S., & Bentler, R.A. (2009). The effect of age on directional microphone hearing aid benefit and preference. Poster presented at: The Aging and Speech Communication: An International and Interdisciplinary Research Conference, Bloomington, IN.
72. Bentler, R.A. & Wu, Y.H. (2008). [Impact of visual cues on directional benefit and preference](#). Poster presented at: The Annual Conference of the American Auditory Society, Scottsdale, AZ.
73. Wu, Y.H., & Bentler, R.A. (2006). Using a signal cancellation technique with impulse responses to assess adaptive directivity of hearing aids. Poster presented at: The 5th biennial International Hearing Aid Research Conference, Tahoe City, CA.
74. Stiles, D., Wu, Y.H. & Bentler, R.A. (2005). Polar responses in adaptive directional hearing aids. Poster presented at: The Annual Convention of the American Academy of Audiology, Minneapolis, MN.
75. Wu, Y.H. & Bentler, R.A. (2005). Using a signal cancellation technique to assess adaptive directivity of hearing aids. Poster presented at: The Annual Convention of the American Academy of Audiology, Minneapolis, MN.
76. Wu, Y.H. & Bentler, R.A. (2004). New Norms for abbreviated profile of hearing aid benefit (APHAB)? Poster presented at: The Annual Conference of the American Auditory Society, Scottsdale, AZ.

SERVICE

1. Profession

2023	American Speech-Language-Hearing Foundation (ASHFoundation) Student Research Grant in Audiology, grant reviewer
2023	Consortium of Rural States (CORES) Multi-Institutional Pilot Program, grant reviewer
2022	NIH/NIDCD Z47, ad hoc reviewer
2022	American Auditory Society annual conference, podium presentation reviewer
2022-2023	Editor of the journal <i>Frontiers</i> special issue <i>Improving Hearing Care Quality from Real-world Hearing Aid Data</i>
2021	Institute for Clinical and Translational Science Pilot Grant reviewer
2021-present	Section Editor for Amplification, <i>Ear and Hearing</i>

2017-present	Editorial board member, Journal of Audiology and Otology
2008-present	Reviewer for manuscripts submitted to professional journals <i>American Journal of Audiology</i> <i>Journal of the American Academy of Audiology</i> <i>Ear and Hearing</i> <i>International Journal of Audiology</i> <i>Journal of Speech, Language, and Hearing Research</i> <i>Hearing Research</i> <i>International Journal of Otolaryngology</i> <i>Journal of Eye Movement Research</i> <i>Journal of Communication Disorders</i> <i>Laryngoscope Investigative Otolaryngology</i>
2015	Co-chair, International Forum for Hearing Instrument Developers
2011-2015	Scientific Review Committee, International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design
2014	Reviewer for Audiology/Hearing Science Research Travel Award, American Speech-Language-Hearing Association

2. Department

2023-present	AuD Capstone Advisor
2022-present	Faculty representative of the committee of the West Campus Academic Building project
2022-2023	DEO search committee, member
2017-present	Departmental Honors Advisor
2016-2020	PhD Studies Committee, member
2012-present	AuD Studies Committee, member
2014-present	Multiple faculty search committees, chair or member
2014-present	AuD Admission Committee, chair or member
2012-2023	AuD Qualifying Exam Committee, chair

3. College

2023	Faculty Representative at Undergraduate Commencement, College of Liberal Arts and Sciences
2023	College of Liberal Arts & Sciences, Review of the School of Social Work, Reviewer
2013-2017	Harding Library Representative for Department Communication Sciences and Disorders

4. University

2019	Honors Scholarship Committee, reviewer
2015-2016	Member of the Language of Aging Working Group of the Obermann Center For Advanced Studies
2014-present	Iowa Summer Institute in Biostatistics, instructor

5. Community

2014	Sertoma (SErvice To MAnkind) Iowa Chapter, lecturer
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6. State of Iowa

2012-2015	Hearing screening in the Healthy Hearing Initiative of Special Olympics, volunteer
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7. Media Contributions

2014	CBS2/FOX28, Hearing Aids Get a Boost from Smartphone App https://www.youtube.com/watch?v=6ZrpYKAhCck
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