

ERIK JORGEN JORGENSEN, AuD, PhD, CCC-A

Assistant Professor
Department of Communication Sciences and Disorders
University of Wisconsin-Madison
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EDUCATION

- Ph.D.** University of Iowa, Iowa City, Iowa
PhD in Speech and Hearing Science awarded 2022
Thesis: Acoustic complexity in real-world noise and effects on speech perception in listeners with normal hearing and hearing loss (Director: Yu-Hsiang Wu, MD, PhD)
- Au.D.** University of Iowa, Iowa City, Iowa
Doctorate in Audiology awarded 2018
- B.A.** Columbia University, New York, New York
Bachelor of the Arts in Philosophy awarded 2007

PROFESSIONAL AND ACADEMIC POSITIONS

- 2022-present **Assistant Professor, Dept. of Communication Sciences and Disorders**
University of Wisconsin-Madison
Director, Soundscape and Audiology Research Laboratory
- 2022-present **Affiliate Faculty, University of Wisconsin Institute on Aging**
University of Wisconsin-Madison
- 2020-2022 **F32 Research Fellow, Dept. of Communication Sciences and Disorders**
University of Iowa
- 2014-2020 **Research Assistant, Hearing Aids and Aging Research Laboratory**
University of Iowa
- 2017-2018 **Audiology Fellow, Iowa Leadership Education in Neurodevelopmental and Related Disabilities, Department of Otolaryngology and the Center for Disabilities and Development**
University of Iowa Hospital and Clinics
- 2014-2017 **Graduate Student Clinician, University of Iowa Hospitals and Clinics**
University of Iowa
- 2016 **T35 Research Trainee, Boys Town National Research Hospital**
Omaha, Nebraska

HONORS AND AWARDS

- 2022 Mentored Student Poster Award, American Auditory Society
- 2022 ASHA Lessons for Success mentee, under Dr. David Eddins
- 2021 Paul J. Abbas Scholarship
- 2021 ASHA Pathways mentee, under Dr. Beth Strickland
- 2020 Dare to Discover Scholar, University of Iowa
- 2020 University of Iowa Graduate and Professional Student Government Research Grant
- 2020 New Investigator's Award, University of Iowa Dept. of Communication Sciences and Disorders
- 2019 Publication Award, University of Iowa Dept. of Communication Sciences and Disorders
- 2017 University of Iowa Graduate Student Senate Travel Grant
- 2017 University of Iowa Graduate and Professional Student Government Travel Grant
- 2015 Iowa Speech-Language Hearing Association's Niel VerHoef Scholarship

MEMBERSHIPS

American Speech-Language Hearing Association, Certificate of Clinical Competence - Audiology
American Auditory Society
Acoustical Society of America
Board Certified Audiologist and Hearing Instrument Specialist, State of Wisconsin

TEACHING

Term	Location	Course Number	Course Title	Enrollment	Overall Evaluation
Fall 2023	University of Wisconsin-Madison	CSD854/5	Electroacoustics and Instrumentation Calibration	17	
Fall 2023	University of Wisconsin-Madison	CSD320	Introduction to Audiology	93	
Fall 2022	University of Wisconsin-Madison	CSD854/5	Electroacoustics and Instrumentation Calibration	12	4.87/5
Fall 2022	University of Wisconsin-Madison	CSD320	Introduction to Audiology	99	4.34/5
Fall 2019	University of Iowa	CSD5420	Hearing Aids I	7	5.9/6
2019	University of Iowa	CSD55313	Clinical Rotations	4	6-Jun
Fall 2018	University of Iowa	CSD5420	Hearing Aids I	8	5.95/6

STUDENT MENTORING

2023-2025 AuD capstone director, Marissa Schaefer
2023-2025 AuD capstone director, Myra Kraemer
2023-2025 AuD capstone director, Megan Werner
2022-2024 AuD capstone director, Lindsey Marie Kreul
2022-2024 AuD capstone director, Marisa Thomas
2020-2024 AuD capstone director, Adelaide Bock
2023-2024 AuD capstone committee member, Liz Brown
2023-2024 AuD capstone committee member, Jess Waid
2022 AuD capstone committee member, Danielle Banaszynski
2022 AuD capstone committee member, Sarah Diel
2022 AuD capstone committee member, Veronica Lane

SCHOLARSHIP

1. **Jorgensen, E.** & Wu, Y.H. (in press). Effects of Entropy in Real-World Noise on Speech Perception in Listeners with Normal Hearing and Hearing Loss (in revision).
2. Vyas, D., **Jorgensen, E.**, Wu, Y.H., & Chipara, O. (2023). Evaluating and optimizing hearing-aid self-fitting methods using population coverage. *Frontiers in Digital Health*.
3. **Jorgensen, E.**, Xi, J., Chipara, C., & Wu, Y.H. (2023). Auditory Environment Diversity Quantified using Entropy from Real-World Hearing Aid Data. *Frontiers in Digital Health. Special Issue: Improving Hearing Care Quality from Real-world Hearing Aid Data*. 5. doi: 10.3389/fdgth.2023.1141917
4. **Jorgensen, E.**, Xu, J., Chipara, O., 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. doi: 10.1097/AUD.0000000000001308
5. 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. doi: 10.1016/j.smhl.2021.100231.
6. Oleson, J., Jones, M., **Jorgensen, E.**, Wu, Y.H. (2022). Statistical considerations for analyzing ecological momentary assessment data. *Journal of Speech, Language, and Hearing Research*. 65(1), 344-360. doi: 10.1044/2021_JSHLR-21-00081.
7. **Jorgensen, E.**, Stangl, E., Chipara, O., Hernandez, H., Oleson, J., & Wu, Y.H. (2021). GPS predicts stability of listening environment characteristics over time among older hearing aid users. *International Journal of Audiology*. 60(5): 328-340. doi: 10.1080/14992027.2020.1831083.
8. **Jorgensen, E.**, McCreery, R., Kirby, B., & Brennan, M. (2020). Effect of level on spectral ripple detection threshold in listeners with normal hearing and hearing loss. *Journal of the Acoustical Society of America*. 148, 908. doi: 10.1121/10.0001706.
9. **Jorgensen, E.**, & Walker, E. (2019). Music participation among school-age children who are hard of hearing. *American Journal of Audiology*, 28(4): 908-926. doi: 10.1044/2019_AJA-19-0058.
10. Judge, P.D., **Jorgensen, E.**, Lopez-Vasquez, M., Roush, P., Page, T.A., Moeller, M.P., Tomblin, J.B., Holte, L., Buchman, C. (2019). Medical referral patterns and etiologies for children with mild-to-severe hearing loss. *Ear and Hearing*. 40(4):1001-1008. doi: 10.1097/AUD.0000000000000682.

INVITED LECTURES AND CONFERENCE PRESENTATIONS

1. Fear, M., Kaminski, C., Ocel, A., Vyas, D., Jorgensen, E., & Walker E. (2023). EMA in adolescents: feasibility and measures of listening effort. Poster presentation at the annual meeting of the American Speech, Language, Hearing Association. Boston, Massachusetts. November.
2. Reynolds, I., & **Jorgensen E.** (2023). Glimpsing ability for speech in real-world noise diminishes with age. Wisconsin Institute on Aging Conference. Madison, Wisconsin. September.
3. **Jorgensen E.** (2023). Music and Hearing Aids. Invited talk. Michigan Audiology Coalition. Lansing, Michigan. October.
4. Bock A., Xi, J., Chipara, O., Arnold, M., Wu, Y-H., & **Jorgensen, E.** (2023). Effects of sample diversity on auditory environment research. Poster presentation at the annual meeting of the American Academy of Audiology. Seattle, Washington. April.
5. **Jorgensen E.**, Wu, Y-H., Chipara, O., Vyas, D. (2023). Optimizing and evaluating hearing aid self-fitting methods using population coverage. Poster presentation at the American Auditory Society Meeting. Scottsdale, Arizona, March.
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 presentation at the International Hearing Aid Research Conference. Lake Tahoe, California. August.
7. **Jorgensen, E.**, Choi, I., and Wu, Y-H. (2022). Effects of entropy in real-world noise on speech perception. Poster presentation at the American Auditory Society Meeting. Scottsdale, Arizona, February.
8. **Jorgensen, E.**, Choi, I., and Wu, Y-H. (2021). Effects of entropy on speech perception in listeners with normal hearing. 181st Meeting of the Acoustical Society of America. Seattle, Washington. December.
9. **Jorgensen, E.** (2021). Music and hearing loss. Invited talk for the Iowa Speech-Language Hearing Association. Iowa City, Iowa, October.
10. **Jorgensen, E.** (2021). Hearing aids in the real world. Invited talk for The Ruth Symposium. James Madison University, Harrisonburg, Virginia, October.

11. **Jorgensen, E.**, Vyas, D., Anwar, Y., Jensen, J., Chipara, O., & Wu, Y.H. (2021). Quantifying hearing aid users' auditory ecology with a deep neural net. Poster presentation at the American Auditory Society Meeting. Scottsdale, Arizona, March.
12. 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 presentation at the American Auditory Society Meeting. Scottsdale, Arizona, March.
13. **Jorgensen, E.** (2021). Ants on the beach: auditory ecology, hearing aids, and listening in the real world. Invited talk for the Professional Seminar at the University of Iowa. Iowa City, Iowa, February.
14. **Jorgensen, E.** & Walker, E. (2020). Music training improves language ability in school-aged children with and without hearing loss. Podium presentation at the Hearing Across the Lifespan Conference. Lake Como, Italy (Conference Canceled).
15. **Jorgensen, E.**, Chipara, O., Xu, J., & Wu, Y.H. (2020). Use of entropy to quantify real world listening environments and effect on listening performance. Poster presentation at the American Auditory Society Meeting. Scottsdale, Arizona, March.
16. **Jorgensen, E.**, Wu, Y.H., Xi, J., & Crukley, J. (2019). Auditory lifestyle differences between urban and rural areas. Podium presentation at the American Auditory Society Meeting. Scottsdale, Arizona, March.
17. **Jorgensen, E.**, Wu, Y.H., Chipara, O., & Oleson, J. (2018). Temporal Stability of Auditory Ecology of Adult Hearing Aid Users. Poster presentation at the International Hearing Aid Research Conference, Lake Tahoe, Nevada, August.
18. **Jorgensen E.** & Walker, E., (2017). Musical habits and preferences of school-aged children who are hard of hearing. Podium presentation at the Hearing Aids for Music Conference, Leeds, England, September.
19. **Jorgensen, E.**, McCreery, R., Kirby, B., & Brennan, M. (2017). Effect of level on spectral ripple detection threshold. Poster presentation at the American Auditory Society Meeting. Scottsdale, Arizona, March.
20. **Jorgensen, E.**, McCreery, R., Kirby, B., & Brennan, M. (2017). Effect of level on spectral ripple detection threshold. Podium Presentation, Professional Seminar, University of Iowa, April.
21. **Jorgensen, E.**, McCreery, R., Kirby, B., & Brennan, M. (2016). Effect of level on spectral ripple detection threshold. Podium presentation at the Iowa Speech Language Hearing Association Conference. Iowa City, Iowa, October.

GRANTS AND FUNDING

Current funding:

Hearing-related behavior and its relationship to hearing aid use and social-emotional health outcomes

Principle Investigator: Erik Jorgensen, AuD, PhD

Co-investigator: Sara Misurelli, AuD, PhD

Agency: NIH/NIDCD

Period: 12/2024-12/2027

Award: NIH R21DC021512

Total direct costs: 375,000

Start-up Funding, University of Wisconsin-Madison

Completed:

Effects of environment complexity on listening performance among adult hearing aid users (F32 DC018980)

Principle Investigator: Erik Jorgensen, AuD

Sponsor: Yu-Hsiang Wu, MD, PhD (Communication Science and Disorders, University of Iowa)

Co-Sponsor: Jacob Oleson, PhD (Biostatistics, University of Iowa)

Co-Sponsor: Octav Chipara, PhD (Computer Science, University of Iowa)

Agency: NIH/NIDCD

Period: 9/10/2020 – 9/10/2022

Award: NIH PAR-18-700 Ruth L. Kirschstein National Research Service Award (NRSA) NIDCD

SERVICE

PROFESSION

2023-present Editorial Board, Hearing Area, *Journal of Speech, Language, Hearing Research*
2023-present Guest editor, *Ear & Hearing*
2018-present Reviewer: *Ear & Hearing, American Journal of Audiology, Journal of Educational, Pediatric, and (Re)Habilitation Audiology*

DEPARTMENT

2023-present Director, Hearing Loss and Hearing Aid Research Registry
2023-present Committee for potential new joint CSD/Psychology building
2022-present Faculty advisor, University of Wisconsin LEND
2022-present AuD Capstone Committees
2022-present Diversity, Equity, and Inclusion committee, University of Madison-Wisconsin, Communication Sciences and Disorders, subcommittee for Academic Standards
2022-present Admission committee, University of Wisconsin-Madison, Communication Sciences and Disorders

WISCONSIN IDEA

2023 Faculty volunteer supervisor, University of Wisconsin Listen Up
Developing Partnership with UW Odyssey: hearing screening and hearing aid education for listeners with barriers to hearing healthcare