

Curriculum Vitae

Elin Roverud

Education	Purdue University	2014
	Ph.D.	Hearing Science
	Purdue University	2011
	Au.D.	
	University of Minnesota	2007
	B.A.	
Certification	ASHA Certificate of Clinical Competence in Audiology	2013-present
Research and Professional Experience	Mass General Brigham University of Health Professions	2026-present
	Assistant Professor	
	Psychoacoustics Laboratory, Boston University	2017-2026
	Research Assistant Professor	
	Psychoacoustics Laboratory, Boston University	2014-2017
	Postdoctoral Research Scientist	
	Psychoacoustics Laboratory, Purdue University	2008-2014
	Research Assistant	
	Psychoacoustics/Speech Perception Laboratory, University of Minnesota	2006-2007
	Undergraduate Research Assistant	
Research Interests	Perceptual training and auditory learning in listeners with hearing loss Selective auditory attention in listeners with normal hearing and hearing loss Hearing loss-induced changes in the processing of complex sounds	
Publications	<u>Peer-Reviewed Articles</u>	
	Roverud, E. and Kidd, G., Jr. (2025). “The influence of uncertainty about ear of presentation, gender, and linguistic structure in following streams of speech,” J. Acoust. Soc. Am., 158, 4116-4134.	
	Roverud, E. and Best, V. (2025). “Consequences of disrupted spatial perception with hearing aids for ‘cocktail party’ listening,” J. Acoust. Soc. Am. 158, 3348-3358.	
	Whiteford, K. L., Baltzell, L. S., Chiu, M., Cooper, J. K., Faucher, S., Goh, P. Y., Hagedorn, A., Irsik, V.C., Irvine, A., Lim, S.J., Mesik, J., Mesquita, B., Oakes, B., Rajappa, N. Roverud, E. & Oxenham, A. J. (2025). “Large-scale multi-site study	

shows no association between musical training and early auditory neural sound encoding,” *Nature communications*, 16(1), 7152.

Roverud, E. and Best, V. (2024). “Effect of hearing aids on the externalization of everyday sounds,” *JASA Express Letters*, 4 (9).

Best, V. and **Roverud, E.** (2024). “Externalization of speech when listening with hearing aids,” *Trends in Hearing*, 28.

Roverud, E., Villard, Sarah, and Kidd, G., Jr. (2023). “Strength of target source segregation cues affects the outcome of speech-on-speech masking experiments,” *J. Acoust. Soc. Am.*, 153, 2780.

Roverud, E., Dubno, J.R., Richards, V.M., and Kidd, G., Jr. (2021). “Cross-frequency weights in normal and impaired hearing: Stimulus factors, stimulus dimensions, and associations with speech recognition,” *J. Acoust. Soc. Am.*, 150, 2327-2349.

Roverud, E., Dubno, J.R., and Kidd, G., Jr. (2020). “Hearing-impaired listeners show reduced attention to high-frequency information in the presence of low-frequency information,” *Trends in Hearing*, 24, 1-17.

Roverud, E., Bradlow, A., and Kidd, G., Jr. (2020). “Examining the sentence superiority effect for sentences presented and reported in forwards or backwards order,” *Applied Psycholinguistics*, 41, 381-400.

Best, V., **Roverud, E.**, Baltzell, L., Rennies, J., and Lavandier, M. (2019). “The importance of a broad bandwidth for understanding “glimpsed” speech,” *J. Acoust. Soc. Am.*, 145, 3215-3221.

Rennies, J., Best, V., **Roverud, E.**, and Kidd, Jr., G. (2019). “Energetic and informational components of speech-on-speech masking in binaural speech intelligibility and perceived listening effort,” *Trends in Hearing*, 23, 1-21.

Kidd, G., Jr., Mason, C.R., Best, V., **Roverud, E.**, Swaminathan, J., Jennings, T., and Clayton, K. (2019). “Determining the energetic masking and informational components of speech-on-speech masking in listeners with sensorineural hearing loss,” *J. Acoust. Soc. Am.* 145, 440-457.

Best, V., Swaminathan, J., Kopco, N., **Roverud, E.**, and Shinn-Cunningham, B. (2018). “A “Buildup” of speech intelligibility in listeners with normal hearing and hearing loss,” *Trends in Hearing*, 22, 1-11.

Best, V., Ahlstrom, J.B., Mason, C.R., **Roverud, E.**, Perrachione, T.K., Kidd, G., Jr., Dubno, J.R. (2018). "Talker identification: Effects of masking, hearing loss, and age," J. Acoust. Soc. Am. 143, 1085-1092.

Roverud, E., Best, V., Mason, C.R., Streeter, T., and Kidd, G., Jr. (2017). "Evaluating the performance of a visually guided hearing aid using a dynamic audio-visual word congruence task," Ear & Hearing, 39(4), 756-769.

Best, V., **Roverud, E.**, Mason, C.R., and Kidd, G., Jr. (2017). "Examination of a hybrid beamformer that preserves auditory spatial cues," J. Acoust. Soc. Am. 142: EL369.

Best, V., **Roverud, E.**, Streeter, T., Mason, C.R., and Kidd, G., Jr. (2017). "The benefit of a visually guided beamformer in a dynamic speech task," Trends in Hearing, 20, doi: 10.1177/2331216517722304.

Best, V., Mason, C.R., Swaminathan, J., **Roverud, E.**, and Kidd, G., Jr. (2017). "Use of a glimpsing model to understand the performance of listeners with and without hearing loss in spatialized speech mixtures," J. Acoust. Soc. Am. 141, 81-91.

Best, V., Streeter, T., **Roverud, E.**, Mason, C., Kidd, G., Jr. (2016). "A flexible question-and-answer task for measuring speech understanding," Trends in Hearing, 20, doi:10.1177/2331216516678706.

Swaminathan, J., Mason, C., Streeter, T., Best, V., **Roverud, E.**, and Kidd, G., Jr. (2016). "Role of binaural temporal fine structure and envelope cues in cocktail-party listening," J. Neuroscience. 36(31), 8250-8257.

Kidd, G., Jr., Mason, C.R., Swaminathan, J., **Roverud, E.**, Clayton, K., and Best, V. (2016). "Determining the energetic and informational components of speech-on-speech masking," J. Acoust. Soc. Am. 140(1), 132-144.

Roverud, E., Best, V., Mason, C., Swaminathan, J., and Kidd, G., Jr. (2016). "Informational masking in normal-hearing and hearing-impaired listeners measured in a nonspeech pattern identification task," Trends in Hearing, 20, 1-17.

Roverud, E., and Strickland, E.A. (2015). "The effects of ipsilateral, contralateral, and bilateral broadband noise on the mid-level hump in intensity discrimination," J. Acoust. Soc. Am., 138(5), 3245-3261.

Roverud, E., and Strickland, E.A. (2015). "Exploring the source of the mid-level hump for intensity discrimination in quiet and the effects of noise," J. Acoust. Soc. Am., 137(3), 1318-1335.

Roverud, E., and Strickland, E.A. (2014). “Accounting for nonmonotonic precursor duration effects with gain reduction in the temporal window model,” *J. Acoust. Soc. Am.*, 135(3), 1321-1334.

Roverud, E., and Strickland, E.A. (2010). “The time course of cochlear gain reduction measured using a more efficient psychophysical technique,” *J. Acoust. Soc. Am.*, 128, 1203-1214.

Book Chapters and Conference Proceedings

Roverud, E., Best, V., Mason, C.R., and Kidd, G., Jr. (2015). “Selective and divided listening in normal-hearing and hearing-impaired listeners measured in a nonspeech pattern identification task,” *Proceedings of Meetings on Acoustics Vol. 23, 050002*.

Roverud, E., and Strickland, E.A. (2013). “Modeling psychophysical gain reduction effects as a function of precursor duration,” *Proceedings of Meetings on Acoustics Vol. 19, 050093*.

Roverud, E.M., and Strickland, E.A. (2013). “Modeling effects of precursor duration on behavioral estimates of cochlear gain,” *In B.C.J. Moore, R.D. Patterson, I.M. Winter, R.P. Carlyon, H.E. Gockel (Eds.), Basic Aspects of Hearing: Physiology and Perception, Springer, New York, pp. 55-63*.

Presentations Conference Talks

Roverud, E. and Best, V. (2026). “Individual variation in sound localization accuracy with hearing aids and associations with speech understanding in spatialized speech mixtures,” *Acoustical Society of America Conference* (Philadelphia, Pennsylvania)

Roverud, E. and Perrachione, T. (2025). “Exploring noninvasive transcranial stimulation as a means of enhancing benefits from auditory training,” *Twelfth International Adult Aural Rehabilitation Conference* (Woburn, Massachusetts).

Roverud, E. (2018). “Examining the relative influence of word recognition and word recall on speech recognition in speech mixtures,” *Association for Research in Otolaryngology Conference* (San Diego, California).

Roverud, E., Best, V., Mason, C., Streeter, T., and Kidd, G., Jr. (2016). “Evaluating performance of hearing-impaired listeners with a visually-guided hearing aid in an audio-visual word congruence task,” *Acoustical Society of America Conference* (Salt Lake City, Utah)

Roverud, E., and Strickland, E.A. (2015). “Predicting forward masking data with olivocochlear efferent effects in the temporal window model,” *Association for Research in Otolaryngology Conference* (Baltimore, Maryland)

Roverud, E., and Strickland, E.A. (2012). “Modeling effects of precursor duration on behavioral estimates of cochlear gain,” *The 16th International Symposium on Hearing* (Cambridge, United Kingdom).

Roverud, E., and Strickland, E.A. (2011). “Parametric issues in measuring gain reduction with a masking technique,” *Acoustical Society of America Conference* (San Diego, California).

Poster Presentations

Roverud, E. and Perrachione, T. (2026). “Effects of two types of transcranial electric stimulation on speech understanding in listeners who struggle with speech-on-speech masking,” *Acoustical Society of American* (Philadelphia, Pennsylvania).

Roverud, E., Dubno, J.R., Kidd, G., Jr. (2020). “Cross-frequency weights for loudness, pitch, and duration and their relation to speech recognition in normal-hearing and hearing-impaired listeners,” *Acoustical Society of America* (virtual).

Roverud, E., Best, V., Conroy, C., Kidd, G., Jr. (2018). “The effect of masker type and masker timing on the serial recall of speech,” *Acoustical Society of America* (Minneapolis, Minnesota).

Roverud, E., Best, V., Dubno, J.R., Mason, C.R., Kidd, G., Jr. (2017). “Does hearing loss affect the use of information at different frequencies? Results from a simultaneous tonal pattern discrimination task in normal-hearing and hearing-impaired listeners,” *Acoustical Society of America* (Boston, Massachusetts).

Roverud, E., Best, V., Mason, C.R., Kidd, G., Jr. (2017). “The influence of word sequence length and source segregation on serial recall of masked speech,” *Association for Research in Otolaryngology* (Baltimore, Maryland).

Roverud, E., Best, V., Mason, C., Streeter, T., and Kidd, G., Jr. (2016). “Evaluating the efficacy of a visually-guided hearing aid using a dynamic audio-visual congruence task,” *Association for Research in Otolaryngology* (San Diego, California).

Roverud, E., Best, V., Mason, C.R., and Kidd, G.K., Jr. (2015). “Analytic and divided listening in normal-hearing and hearing-impaired listeners measured in a nonspeech pattern identification task,” *Acoustical Society of America* (Pittsburgh, Pennsylvania).

Roverud, E., and Strickland, E.A. (2014). “Examining the influence of forward, backward, and simultaneous notched noise on the mid-level hump in intensity discrimination,” *Acoustical Society of America* (Providence, Rhode Island).

Roverud, E., and Strickland, E.A. (2014). “The effects of ipsilateral and contralateral noise on the ‘mid-level hump’ in intensity discrimination,” *Association for Research in Otolaryngology Conference* (San Diego, California).

Roverud, E., and Strickland, E.A. (2013). “Modeling psychophysical gain reduction effects as a function of precursor duration,” *Acoustical Society of America Conference* (Montreal, Quebec).

Roverud, E., and Strickland, E.A. (2010). “The time course of the temporal effect and its relationship to an efferent mechanism,” *Association for Research in Otolaryngology Conference* (Anaheim, California).

Roverud, E., and Strickland, E.A. (2009). “The effect of precursor duration and delay on behavioral estimates of cochlear gain,” *Association for Research in Otolaryngology Conference* (Baltimore, Maryland).

Roverud, E., and Schlauch, R. (2006). “Informational Masking and Loudness,” *Acoustical Society of America Conference* (Minneapolis, Minnesota).

Research Funding	<u>Active</u>	
	Title: “Transcranial stimulation combined with auditory training” (E. Roverud, PI)	
	Source of Support: NIH NIDCD, R21 DC021763	
	Project Start and End Date: 9/24/2024 – 8/31/2026 (8/31/2027 with NCE)	
	<u>Completed</u>	
	Title: “Comparing effects of transcranial direct current stimulation and transcranial alternating current stimulation during auditory training for listeners with hearing loss struggling with speech-on-speech understanding,” (E. Roverud, PI)	
	Source of Support: American Hearing Research Foundation	
	Project Start and End Date: 1/1/2025 – 12/31/2025	
	Title: “Weighting of auditory information” (E. Roverud, PI)	
	Source of Support: NIH NIDCD, K01 DC016627	
	Project Start and End Date: 07/01/2018-06/30/2022	
Honors and Awards	Association for Research in Otolaryngology Graduate Student Travel Award	2014
	Purdue Research Foundation Fellowship	2013-2014
	Frances P. Wilson Graduate Scholarship	2013, 2014
	NIH Pre-doctoral Training Grant Fellowship	2012-2013
	Frances P. Wilson Graduate Scholarship	2010
	Audiology Foundation of America Outstanding Student Award nominee	2008
	Wilson Recruitment Scholarship	2007
	Selmer Birkelo Scholarship	2006
Teaching Experience	CA 812, Acoustics and Instrumentation	Fall, 2026
	Mass General Brigham University of Health Professions (Co-Instructor)	

CAH 810, Research Methods and Quality Improvements Summer, 2024 and 2026
Massachusetts General Hospital Institute of Health Professions
(Primary Instructor)

CA 722, Auditory Perception and Psychoacoustics Fall, 2023, 2024, and 2025
Massachusetts General Hospital Institute of Health Professions
(Primary Instructor)

CA 720, Anatomy & Physiology of Hearing Summer 2025
Massachusetts General Hospital Institute of Health Professions
(Co-Instructor)

SH 700, Research Methods in Speech-Language Pathology and Audiology, Fall, 2021
Boston University
(Primary Instructor)

SH 810, Graduate Seminar on Grant Preparation, Boston University Spring, 2018
(Guest lecturer on preparing K award application)

SLHS 503, Auditory Perception, Purdue University Fall, 2012
(Primary Instructor)

SLHS 304, Anatomy and Physiology of the Speech and Hearing Fall, 2011
Mechanism, Purdue University
(Guest lecturer for three lectures on hearing)

SLHS 302, Acoustic Bases of Speech and Hearing, Purdue University Spring, 2008
(Laboratory Instructor)

SLHS 304, Anatomy and Physiology of the Speech and Hearing Fall, 2007
Mechanism, Purdue University
(Laboratory Instructor)

Clinical **Indiana University School of Medicine, Indianapolis, IN** 2010-2011
Experience Audiology Extern
Performed diagnostic hearing and vestibular assessment, hearing aid fitting and adjustment, and cochlear implant mapping and programming for patients across the life span (infancy to adulthood).

Northeast Otolaryngology, Kokomo/Noblesville, IN 2010
Audiology Extern
Performed diagnostic hearing assessment, and hearing aid fitting and programming.

	Clarian-Arnett Hospital, Lafayette, IN	2009
	Audiology Extern	
	Performed diagnostic hearing assessment, and hearing aid fitting and programming.	
	Purdue University Audiology Clinic	2007-2009
	Audiology Intern	
	Performed diagnostic hearing assessment for patients across the lifespan, occupational safety and health screenings for employees at Purdue University, hearing aid fitting and adjustment, auditory training and counseling.	
Professional Affiliations	Acoustical Society of America	Member 2011-present
	American Speech-Language-Hearing Association	Member 2013-present
	Association for Research in Otolaryngology	Member 2013-present
Leadership Positions	Acoustical Society of America Technical Committee	2017-2021
	<i>Psychological and Physiological Acoustics technical committee</i>	
	Acoustical Society of America Student Council	2011-2013
	<i>Representative for Psychological and Physiological Acoustics technical committee</i>	
Service	Editorial Board Member – Journal of Speech, Language, Hearing Research	2020-2024, 2026
	Journal Reviewer – International Journal of Audiology	2019
	Journal Reviewer – Trends in Hearing	2019
	Journal Reviewer – J. Acoustical Society of America	2016-present
	Journal Reviewer – Ear and Hearing	2016-present
	Consulting Journal Reviewer – J. Neuroscience	2015
Other Skills	Languages: English (native), American Sign Language (some proficiency), French (some proficiency)	
	Experienced with Matlab coding	