Abigail Anne Kressner

Curriculum Vitae

Technical University of Denmark
Rigshospitalet

✉ *aakress@dtu.dk*
✉ *abigail.anne.kressner@regionh.dk*

Education

2009–2015 **PhD Electrical and Computer Engineering**, *Georgia Institute of Technology*, Georgia, USA

THESIS Structure in time-frequency binary masking

ADVISOR Dr. Christopher John Rozell

2009–2011 **MSc Electrical and Computer Engineering**, *Georgia Institute of Technology*, Georgia, USA

THESIS Auditory models for evaluating algorithms

ADVISOR Dr. Christopher John Rozell

2008 **Audiology**, *Vanderbilt University*, Tennessee, USA

2004–2007 **BSc Biomedical Engineering**, *Washington University in St. Louis*, Missouri, USA

Positions

2019– **Assistant Professor**, *Technical University of Denmark & Rigshospitalet*, Copenhagen, Denmark

2015–2019 **Postdoctoral Researcher**, *Technical University of Denmark*, Copenhagen, Denmark

2017 **Visiting Postdoctoral Researcher**, *Cochlear, Ltd*, Melbourne

2014–2015 **Visiting Scholar**, *National Acoustic Laboratories*, Sydney, Australia

2008 **Research Intern**, *Widex A/S*, Værløse, Denmark

2007 **Research Intern**, *Knowles Electronics, LLC*, Illinois, USA

2006 **Research Intern**, *AuSIM, Inc*, California, USA

Research area

Clinical and technical audiology

- Hearing impairment
- Hearing aids
- Cochlear implants
- Speech perception
- Spatial perception
- Signal processing

Distinctions and awards

2018 **Young Researcher Training Programme (i.e., top 25 young academics)**, *Technical University of Denmark*, Copenhagen, Denmark

2014 **International Hearing Aid Conference (IHCON) Scholarship**, *California*, USA

2014 **Chih Foundation Research Award**, *Georgia*, USA

2009–2013 **President's Fellowship**, *Georgia Institute of Technology*, Georgia, USA

2011 **International Symposium on Auditory and Audiological Research (ISAAR) Scholarship**, *Nyborg*, Denmark

2010 **21st Annual SAIC Student Paper Competition**, *First place*, Georgia, USA

2004–2007 **Jeffrey & Nancy Balter Biomedical Engineering Scholar**, *Washington University in St. Louis*, Missouri, USA

2004
2005

Society of Women Engineers Scholar, *Missouri*, USA

Grants

2023

Link Project

TITLE Uncovering the link between hearing loss and mild cognitive impairment
GRANT Project grant from GN Store Nord Fondet
AMOUNT DKK 5M
ROLE Principal investigator

2022
2023

Social participation

TITLE First-time hearing aid use and self-rated social participation
GRANT Project grant from WS Audiology
AMOUNT DKK 167k
ROLE Principal investigator

2021
2023

Danish Sentence Test (DAST)

TITLE Larger Danish corpus for sentence testing
GRANT Project grant co-funded by GN Hearing, WS Audiology, and Demant
AMOUNT DKK 1.5M
ROLE Principal investigator

2015
2017

DFF Postdoc

TITLE Cochlear implant channel selection errors
GRANT Postdoctoral grant from Det Frie Forskningsråd (DFF)
AMOUNT DKK 1.8M
ROLE Principal investigator
SUCCESS RATE 11%

2014
2015

NSF PhD GROW Fellow

TITLE Evaluating speech enhancement and stimulation strategies with a cochlear implant research platform in a realistic virtual sound environment
GRANT National Science Foundation (NSF) Graduate Research Opportunities Worldwide (GROW)
AMOUNT AUD 20k + USD 5k
ROLE Principal investigator

2010
2015

NSF GRFP

GRANT National Science Foundation (NSF) Graduate Research Fellowship Program (GRFP)
AMOUNT USD 138k (estimated)
ROLE Principal investigator
SUCCESS RATE 12.5%

2010
2013

NDSEG Fellowship

GRANT National Defense Science & Engineering Graduate (NDSEG) Fellowship
AMOUNT USD 225k (estimated)
ROLE Principal investigator
SUCCESS RATE 6%

Teaching experience

2022

Lecturer, *Technical University of Denmark*

COURSE Experimental Hearing Science (22002)

DETAILS 5 ECTS, 3-weeks January semester

2021–2023 **Lecturer**, *Technical University of Denmark*

COURSE Acoustic Communication (22000)

DETAILS 10 ECTS, 13-weeks Fall semester

2018 **Guest lecturer**, *Technical University of Denmark*

COURSE Auditory Signal Processing and Perception (31236)

TOPIC Signal processing

2018 **Teacher's assistant**, *Technical University of Denmark*

COURSE Auditory Signal Processing and Perception (31236)

TOPIC Laboratory exercise on basilar membrane models

2017 **Guest lecturer**, *Technical University of Denmark*

COURSE Signals and Linear Systems in Discrete Time (31606)

TOPIC Noise reduction

2016–2024 **Supervisor**, *Technical University of Denmark*

COURSE PhD-, MSc, and BSc-level project-based special courses

TOPICS Cochlear implant signal processing, Speech intelligibility modeling, Frequency response measurements in acoustic transducers for clinical audiology, Analysis of auditory-evoked electroencephalographic (EEG) measurements, Functional near-infrared spectroscopy (fNIRS) signal processing, Real-time noise reduction in a master hearing aid

2016 **Teacher's assistant**, *Technical University of Denmark*

COURSE Auditory Signal Processing and Perception (31236)

TOPIC Laboratory exercise on speaker identification

2016 **Teacher's assistant**, *Technical University of Denmark*

COURSE Auditory Signal Processing and Perception (31236)

TOPIC Laboratory exercise on signal processing

2012–2013 **Teacher's assistant**, *Georgia Institute of Technology*

COURSE Signal processing

TOPIC Development of laboratory exercise on psychoacoustic masking

2007 **Teacher's assistant**, *Washington University in St. Louis*

COURSE Quantitative Physiology

Supervision

SUMMARY
- PhD: 4 completed as co-supervisor, 3 ongoing as co-supervisor
- MSc: 8 completed, 4 ongoing

PhD

2023 **Colin Barbier**, *Characterizing the effects of compression and reverberation on spatial hearing*
Co-supervisor

2023 **Mats Daniel Rekswinkel**, *Investigating an objective and clinically oriented measurement paradigm based on cortical responses to assess speech discrimination*
Co-supervisor

2021 **Lisbeth Birkelund Simonsen**, *New applications and test modalities for the Audible Contrast Threshold (ACT) test*
Co-supervisor

2019–2023 **Rasmus Malik Thaarup Høegh**, *Probabilistic deep learning for hearing aid speech separation*
Co-supervisor

2019–2022 **Mihaela-Beatrice Neagu**, *Evaluation of pupillometry as a diagnostic tool*
Co-supervisor

2015–2019 **Wiebke Lamping**, *Improving music perception and voice pitch in cochlear implant users*
Co-supervisor

2015–2018 **Thomas Bentsen**, *Computational speech segregation inspired by principles of auditory processing*
Co-supervisor

MSc

2024 **Bina Singh**, *Everyday Conversational Danish Sentences Test (ECO-DAST)*, Copenhagen University

2024 **Anne Damtoft**, *Everyday Conversational Danish Sentences Test (ECO-DAST)*, Copenhagen University

2024 **Helene Vargas Becerra**, *Investigation of hearing and mild cognitive impairment*

2023 **Quirin Mühlberger**, *Investigation of monaural localization in patients with single-sided deafness*

2022 **Andreas Hafstrøm**, *Evaluation of signal processing methods to determine the reliability of functional near-infrared spectroscopy (fNIRS) for measuring hearing*

2022 **Beatriz de Sousa e Meneses Tomás da Costa**, *Electrophysiological and behavioral measurements of binaural processing in normal- and hearing-impaired listeners*

2022 **Mats Daniel Rekswinkel**, *Investigating the correlation between electrophysiologically measured frequency discrimination thresholds and behavioral measurements of speech intelligibility*

2021 **Borgný Súsonnudóttir Hansen**, *Effects of minimum phase processing on speech and spatial perception in binaural hearing aids*

2021 **David Gröblbauer**, *Spatial perception of gain dependent group delay differences in binaural hearing aids using minimum phase*

2021 **Kirsten Maria Jensen Rico**, *Validation of a virtual reality sound environment - comparing binaural spatialized audio and physical loudspeaker array*

2021 **Anaïs Bouchet**, *Measuring human hearing with functional near-infrared spectroscopy*

2018 **Rasmus Bendsen**, *Spatial perception in reverberant environments with cochlear implant recipients*

Publications

SUMMARY
- OrCID: 0000-0003-4274-3948
- H-index: 8

Journal articles

[18] **Kressner, A. A.**, Gotoweic, S., Jordell, D. H., Rønne, F., "Self-rated social participation and hearing handicap assessed longitudinally for first-time and longer-term hearing aid use". In: *International Journal of Audiology* (in review).

[17] **Kressner, A. A.**, Jensen-Rico, K. M., Pedersen, A. K., Bramsløw, L., Kirkwood, B., "Development of a non-adaptive Danish Sentence Test (DAST) for measuring speech intelligibility in fixed signal-to-noise ratios". In: *International Journal of Audiology* (in review).

[16] **Kressner, A. A.**, Sørensen, R. S., West, N., Cayé-Thomasen, P., Marozeau, J., "Examination of individual speech and spatial perception in unilateral and bimodal cochlear implant users using a more ecologically valid speech-in-noise test". In: *Acta Acustica* (in review).

[15] **Kressner, A. A.**, Rico, K. M. J., Kizach, J., Man, B. K. L., Pedersen, A. K., Bramsløw, L., Hansen, L. B., Balling, L. W., Kirkwood, B., May, T., "A corpus of audio and audio-visual recordings of Danish sentences for hearing, audiology, and audio signal processing research". In: *Speech Communication* (in review).

[14] Fernandez, J., McCormack, L., Hyvärinen, P., **Kressner, A. A.,** "Investigating sound-field reproduction methods as perceived by bilateral hearing aid users". In: *The Journal of the Acoustical Society of America* (in review).

[13] West, N. C., Sørensen, R. S., **Kressner, A. A.**, Bille, M., Marozeau, J., Cayé-Thomasen, P., "Cochlear implantation in Sporadic Intralabyrinthine Schwannomas with single-sided deafness: Implications for binaural hearing". In: *Otology & Neurotology* (in press).

[12] Neagu, M.-B., **Kressner, A. A.**, Relaño-Iborra, H., Bækgaard, P., Dau, T., Wendt, D., "Investigating the Reliability of Pupillometry as a Measure of Individualized Listening Effort". In: *Trends in Hearing* 27 (2023), pp. 1–20. DOI: 10.1177/23312165231153288.

[11] Relaño-Iborra, H., Wendt, D., Neagu, M. B., **Kressner, A. A.**, Dau, T., Bækgaard, P., "Baseline pupil size encodes task-related information and modulates the task-evoked response in a speech-in-noise task". In: *Trends in Hearing* 26 (2022), p. 23312165221134003. DOI: 10.1177/23312165221134003.

[10] West, N. C., **Kressner, A. A.**, Baungaard, L. H., Sandvej, M. G., Bille, M., Cayé-Thomasen, P., "Nordic results of cochlear implantation in adults: speech perception and patient reported outcomes". In: *Acta Oto-Laryngologica* 140.11 (2020), pp. 939–947. DOI: 00016489.2020.1816656.

[9] Bentsen, T., Mauger, S. J., **Kressner, A. A.**, May, T., Dau, T., "The impact of noise power estimation on speech intelligibility in cochlear-implant speech coding strategies". In: *The Journal of the Acoustical Society of America* 145.2 (2019), pp. 818–821. DOI: 10.1121/1.5089887.

[8] **Kressner, A. A.**, May, T., Dau, T., "Effect of Noise Reduction Gain Errors on Simulated Cochlear Implant Speech Intelligibility". In: *Trends in hearing* 23 (2019), p. 2331216519825930. DOI: 10.1177%2F2331216519825930.

[7] Bentsen, T., **Kressner, A. A.**, Dau, T., May, T., "The impact of exploiting spectro-temporal context in computational speech segregation". In: *The Journal of the Acoustical Society of America* 143.1 (2018), pp. 248–259. DOI: 10.1121/1.5020273.

[6] Bentsen, T., May, T., **Kressner, A. A.**, Dau, T., "The benefit of combining a deep neural network architecture with ideal ratio mask estimation in computational speech segregation to improve speech intelligibility". In: *Plos one* 13.5 (2018), e0196924. DOI: 10.1371/journal.pone.0196924.

[5] **Kressner, A. A.**, Westermann, A., Buchholz, J. M., "The impact of reverberation on speech intelligibility in cochlear implant recipients". In: *The Journal of the Acoustical Society of America* 144.2 (2018), pp. 1113–1122. DOI: 10.1121/1.5051640.

[4] **Kressner, A. A.**, Westermann, A., Buchholz, J. M., Rozell, C. J., "Cochlear implant speech intelligibility outcomes with structured and unstructured binary mask errors". In: *The Journal of the Acoustical Society of America* 139.2 (2016), pp. 800–810. DOI: 10.1121/1.4941567.

[3] **Kressner, A. A.**, May, T., Rozell, C. J., "Outcome measures based on classification performance fail to predict the intelligibility of binary-masked speech". In: *The Journal of the Acoustical Society of America* 139.6 (2016), pp. 3033–3036. DOI: 10.1121/1.4952439.

[2] **Kressner, A. A.**, Rozell, C. J., "Structure in time-frequency binary masking errors and its impact on speech intelligibility". In: *The Journal of the Acoustical Society of America* 137.4 (2015), pp. 2025–2035. DOI: 10.1121/1.4916271.

[1] **Kressner, A. A.**, Anderson, D. V., Rozell, C. J., "Evaluating the Generalization of the Hearing Aid Speech Quality Index (HASQI)". In: *IEEE Transactions on Audio, Speech and Language Processing* 21.2 (2013), pp. 407–415. DOI: 10.1109/TASL.2012.2217132.

Conference publications

[8] **Kressner, A. A.**, Rico, K. M. J., Kizach, J., Man, B. K. L., Pedersen, A. K., Bramsløw, L., Kirkwood, B., "The Danish Sentence Test (DAST) corpus of audio and audio-visual recordings of sentences and monologues". In: *Forum Acusticum*. 2023.

[7] **Kressner, A. A.**, May, T., Høegh, R. M. T., Juhl, K. A., Bentsen, T., Dau, T., "Investigating the effects of noise-estimation errors in simulated cochlear implant speech intelligibility". In: *International Symposium on Auditory and Audiological Research (ISAAR)*. 2017.

[6] Bentsen, T., May, T., **Kressner, A. A.**, Dau, T., "Comparing the influence of spectro-temporal integration in computational speech segregation". In: *Proceedings of Interspeech 2016*. 2016.

[5] **Kressner, A. A.**, Anderson, D. V., Rozell, C. J., "A novel binary mask estimator based on sparse approximation". In: *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*. 2013.

[4] **Kressner, A. A.**, Anderson, D. V., Rozell, C. J., "Causal binary mask estimation for speech enhancement using sparsity constraints". In: *The Journal of the Acoustical Society of America*. Vol. 133. 5. 2013, pp. 1–9.

[3] **Kressner, A. A.**, Rozell, C. J., "Speech understanding in noise provided by a simulated cochlear implant processor based on matching pursuit". In: *2013 IEEE Workshop on Applications of Signal Processing to Audio and Acoustics*. IEEE. 2013, pp. 1–4.

[2] Charles, A. S., **Kressner, A. A.**, Rozell, C. J., "A causal Locally Competitive Algorithm for the sparse decomposition of audio signals". In: *2011 Digital Signal Processing and Signal Processing Education Meeting (DSP/SPE)*. IEEE. 2011, pp. 265–270.

[1] **Kressner, A. A.**, Anderson, D. V., Rozell, C. J., "Robustness of the Hearing Aid Speech Quality Index (HASQI)". In: *Applications of Signal Processing to Audio and Acoustics (WASPAA), 2011 IEEE Workshop on*. IEEE. 2011, pp. 209–212.

Invited talks

[7] **Kressner, A. A.** "Examination of the relationship between spatial speech-in-noise and localization ability". In: Speech in Noise Workshop (SPIN). 2023.

[6] **Kressner, A. A.** "Projects at Copenhagen Hearing and Balance Center, Rigshospitalet". Danish Sound Day. 2023.

[5] **Kressner, A. A.** "Translating spatial hearing assessments to the clinic". Oldenburg University Department Colloquium. 2023.

[4] **Kressner, A. A.** "Towards better predictions of speech intelligibility in cochlear implant recipients". In: Virtual Conference on Computational Auditory (VCCA). 2022.

[3] **Kressner, A. A.** "Building bridges between clinicians and engineers within audiology". Danish Sound Day. 2021.

[2] **Kressner, A. A.** "Leveraging virtual reality in healthcare". Børneriget Inspirationmødet. 2021.

[1] **Kressner, A. A.** "Rehabilitation for cochlear implant recipients". Nordic Council of Late-Deafened (VDNR). 2021.

Conference abstracts

[30] **Kressner, A. A.**, Rico, K. M. J., Kizach, J., Man, B. K. L., Pedersen, A. K., Bramsløw, L., Nielsen, J. B., Hansen, L. B., Kirkwood, B., May, T., "The Danish Sentence Test (DAST) Project: An audio and audio-visual corpus of sentences, monologues, and dialogues and its associated speech-in-noise tests". In: *International Symposium on Auditory and Audiological Research (ISAAR)*. 2023.

[29] **Kressner, A. A.**, Rico, K. M. J., Kjærbøl, E., Jordell, D. H., "Quick Danish Sentence Test (QuickDAST)". In: *Dansk Teknisk Audiologisk Selskab (DTAS)*. 2023.

[28] Rekswinkel, M. D., Undurraga, J. A., **Kressner, A. A.,** "Cortical and behavioural discrimination in response to vowel-like spectral cues". In: *International Evoked Response Audiometry Study Group (IERASG)*. 2023.

[27] Rønne, F. M., Walravens, E., **Kressner, A. A.,** "Danish translations of the Hearing Handicap for the Elderly and Adult and the Social Participation and Restriction Questionnaire questionnaires". In: *International Symposium on Auditory and Audiological Research (ISAAR)*. 2023.

[26] Simonsen, L. B., **Kressner, A. A.**, Dau, T., Undurraga, J. A., Laugesen, S., "Acoustic Change Complex (ACC) responses to ACT-like stimuli". In: *Dansk Teknisk Audiologisk Selskab (DTAS)*. 2023.

[25] Simonsen, L. B., **Kressner, A. A.**, Dau, T., Undurraga, J. A., Laugesen, S., "An electrophysiological version of the Audible Contrast Threshold (ACT™) test: Correlation to HINT and behavioural ACT as well as test-retest differences". In: *International Evoked Response Audiometry Study Group (IERASG)*. 2023.

[24] Simonsen, L. B., **Kressner, A. A.**, Dau, T., Undurraga, J. A., Laugesen, S., "Measuring and predicting speech-in-noise abilities for a longitudinal study". In: *Celya Summer School Hearing in Noise*. 2023.

[23] Hansen, B. S., Gröblbauer, D., Kowalewski, B., Mosgaard, L. D., **Kressner, A. A.,** "Effect of minimum phase processing on binaural hearing in a spatial release from masking paradigm". In: *International Hearing Aid Conference (IHCON)*. 2022.

[22] **Kressner, A. A.**, Sørensen, R. S., West, N., Cayé-Thomasen, P., Marozeau, J., "Characterizing SSD patients' individual localization ability and correlation with speech-in-noise in a more realistically complex listening scenario". In: *Joint Conference on Binaural And Spatial Hearing (BASH)*. 2022.

[21] Neagu, M.-B., **Kressner, A. A.**, Relaño-Iborra, H., Bækgaard, P., Dau, T., Wendt, D., "Towards a better understanding of the sensitivity of the pupil response during speech perception and its relationship with perceptual effort". In: *Association for Research in Otolaryngology (ARO)*. 2022.

[20] Relaño-Iborra, H., Wendt, D., Neagu, M. B., **Kressner, A. A.**, Dau, T., Bækgaard1, P., "A data-driven approach to assess task difficulty and exerted effort from pupillary recordings". In: *Association for Research in Otolaryngology (ARO)*. 2022.

[19] Rønne, F. M., Wischmann, S., Walravens, E., Jordell, D. H., Gotowiec, S., **Kressner, A. A.,** "Investigating the effect of first-time hearing aid use on self-rated social participation". In: *International Hearing Aid Conference (IHCON)*. 2022.

[18] Simonsen, L. B., **Kressner, A. A.**, Dau, T., Undurraga, J. A., Laugesen, S., "Aiming at an electrophysiological version of the Audible Contrast Threshold (ACT™) test by measuring auditory-evoked responses to spectro-temporally modulated stimuli". In: *Nordic Audiological Society (NAS)*. 2022.

[17] Bouchet, A., **Kressner, A. A.**, Kjærbøl, E. F., Van Eeckhoutte, M., "Measuring human hearing with functional near-infrared spectroscopy: Test-retest reliability". In: *International Symposium on Auditory and Audiological Research: The auditory system throughout life–Models, mechanisms, and interventions*. 2021.

[16] Neagu, M.-B., **Kressner, A. A.**, Dau, T., Bækgaard, P., Relaño-Iborra, H., Wendt, D., "Investigating the dynamic range of the pupil response in relation to changes in the signal-to-noise ratio during a speech-in-noise task". In: *International Symposium on Auditory and Audiological Research (ISAAR)*. 2021.

[15] Relaño-Iborra, H., Wendt, D., Neagu, M.-B., **Kressner, A. A.**, Dau, T., Bækgaard, P., "Baseline pupil size affects the temporal dynamics of the task evoked pupillary response in a speech in noise listening task". In: *International Symposium on Auditory and Audiological Research (ISAAR)*. 2021.

[14] Rico, K. J., Petersen, R. L., Faulkner, K., Patou, F., Marozeau, J., **Kressner, A. A.,** "Cognitive load in a virtual sound localization task: a pupillometry study". In: *European symposium on pediatric cochlear implantation(ESPCI)*. 2021.

[13] Van Eeckhoutte, M., Bouchet, A., Kjærbøl, E. F., **Kressner, A. A.,** "Reliability of Functional Near-Infrared Spectroscopy to Auditory Stimulation". In: *Society of fNIRS Virtual Conference*. 2021.

[12] Bendsen, R. Ø., **Kressner, A. A.**, Dau, T., "Effect of linked and "spatially aware"' cochlear-implant compression on spatial perception in a reverberant room". In: *Conference on Implantable Auditory Prostheses (CIAP)*. 2019.

[11] Lamping, W., Goehring, T., **Kressner, A. A.**, Marozeau, J., Carlyon, R. P., "A coding strategy to remove temporally masked pulses and its effect on speech perception by CI listeners". In: *Conference on Implantable Auditory Prostheses (CIAP)*. 2019.

[10] **Kressner, A. A.**, Mauger, S. J., Dau, T., "Predicting the impact of noise and noise reduction algorithms on speech intelligibility in cochlear implant recipients". In: *Audiological Research Cores in Europe (ARCHES)*. 2017.

[9] **Kressner, A. A.**, Mauger, S. J., Hersbach, A. A., Dau, T., "Multi-study evaluation of objective measures that predict cochlear implant speech intelligibility". In: *Conference on Implantable Auditory Prostheses (CIAP)*. 2017.

[8] **Kressner, A. A.**, Westermann, A., Buchholz, J. M., Rozell, C. J., "Speech coding errors in cochlear implants and their impact on speech intelligibility in noise". In: *International Hearing Aid Research Conference (IHCON)*. 2016.

[7] Bentsen, T., May, T., **Kressner, A. A.**, Dau, T., "The effect of spectro-temporal context on computational speech segregation". In: *Audiological Research Cores in Europe (ARCHES)*. 2015.

[6] **Kressner, A. A.**, Rozell, C. J., "The influence of structure in binary mask estimation error on speech intelligibility". In: *International Hearing Aid Research Conference (IHCON)*. 2014.

[5] **Kressner, A. A.**, Rozell, C. J., "Speech separation using Matching Pursuit for time-frequency masking". In: *Signal Processing with Adaptive Sparse Structured Representations (SPARS) Workshop*. 2013.

[4] **Kressner, A. A.**, Anderson, D. V., Rozell, C. J., "Causal Locally Competitive Algorithm for the sparse decomposition of audio signals". In: *IEEE Women's Workshop on Communications and Signal Processing*. 2012.

[3] **Kressner, A. A.**, Anderson, D. V., Rozell, C. J., "Computational auditory models validate the intelligibility benefit of efficient filters". In: *International Symposium on Auditory and Audiological Research (ISAAR)*. 2011.

[2] **Kressner, A. A.**, Rozell, C. J., Anderson, D. V., "Predicting speech quality using a computational auditory model". In: *International Hearing Aid Research Conference (IHCON)*. 2010.

[1] Jensen, M. J., Linkenkaer, M. P., **Kressner, A. A.,** "Using FEM to estimate the influence of pinna when calculating hearing aid relevant transfer functions". In: *International Hearing Aid Research Conference (IHCON)*. 2008.

Books

[1] Abigail Anne Kressner, Jonathan Regev, Jakob Christensen-Dalsgaard, Lisbeth Tranebjærg, Sébastien Santurette, and Torsten Dau, eds. *Auditory Learning in Biological and Artificial Systems*. Vol. 7. International Symposium on Auditory and Audiological Research (ISAAR), 2019.

Professional activities

2021 **Danish Sound Cluster's working group on 'Healthcare and welfare'**, *Member*

2019 **Rigshospitalet's Ear, Nose, and Throat Surgical & Audiological Clinic's Research Council**, *Member*

2019 **Dansk Teknisk Audiologisk Selskab (DTAS)**, *Member*

2019 **Danish Acoustical Society (DAS)**, *Member*

2019 **European Acoustics Association (EAA)**, *Member*

2019 **International Symposium on Auditory and Audiological Research**, *Organizing committee*

2013–2014 **American Auditory Society**, *Member*

2010–2014 **IEEE Signal Processing Society**, *Member*

2010–2014 **Institute of Electrical and Electronics Engineers (IEEE)**, *Member*

Editorial activities

2022 **Hearing Research**, *Reviewer*

2021 **Audiology Research**, *Topic Editor*

2019 **Proceedings of the International Symposium on Auditory and Audiological Research**, *Editor*

2019 **Journal of the Association for Research in Otolaryngology**, *Reviewer*

2018 **Trends in Hearing**, *Reviewer*

2017 **Speech Communication**, *Reviewer*

2016 **Journal of the Acoustical Society of America**, *Reviewer*

2014 **IEEE Transactions on Audio, Speech, and Language Processing**, *Reviewer*

Languages

English Native

Danish Professional proficiency