

Abigail Anne Kressner

aakress@dtu.dk · abigail.anne.kressner@regionh.dk
http://cv.abbiekressner.com
ORCID: 0000-0003-4274-3948

Education

2011-2015	Ph.D. · Electrical and Computer Engineering · Georgia Institute of Technology
2009-2011	M.S. · Electrical and Computer Engineering · Georgia Institute of Technology
2008	Audiology · Vanderbilt University
2004-2007	B.S. · Biomedical Engineering · Washington University in St. Louis

Positions

2019-present	Assistant Professor · Technical University of Denmark and Rigshospitalet
2017	Visiting Postdoctoral Researcher · Cochlear, Ltd · Melbourne, Australia
2015-2019	Postdoctoral Researcher · Technical University of Denmark
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 support

2022-2023	Project grant co-funded by GN Resound, Widex, and Demant (PI; DKK 1.5m)
2015-2017	Postdoctoral grant from Det Frie Forskningsråd (DFF; Danish Council for Independent Research; DKK 1.8m)
2014-2015	National Science Foundation (NSF) Graduate Research Opportunities Worldwide (GROW; AUD 20k)
2010-2015	National Science Foundation (NSF) Graduate Research Fellowship Program (GRFP; USD 138k)
2010-2013	National Defense Science & Engineering Graduate (NDSEG) Fellowship (USD 225k)

Awards

2014	International Hearing Aid Conference (IHCON) Scholarship
2014	Chih Foundation Research Award
2009-2013	President's Fellowship · Georgia Institute of Technology
2011	ISAAR and GN Foundation Young Scientist Conference Scholarship
2010	21st Annual SAIC Student Paper Competition · First place
2004-2007	Jeffrey & Nancy Balter Biomedical Engineering Scholar · Washington University in St. Louis
2004-2005	Society of Women Engineers Scholar

Selected publications

- West, N. C., Kressner, A. A., Baungaard, L. H., Sandvej, M. G., Bille, M., & Cayé-Thomasen, P. (2020). Nordic results of cochlear implantation in adults: speech perception and patient reported outcomes. *Acta Oto-Laryngologica*, 140(11), 939–947. [doi]
- Bentsen, T., Mauger, S. J., Kressner, A. A., May, T., & Dau, T. (2019). The impact of noise power estimation on speech intelligibility in cochlear-implant speech coding strategies. *The Journal of the Acoustical Society of America*, 145(2), 818–821. [doi]
- Kressner, A. A., May, T., & Dau, T. (2019). Effect of Noise Reduction Gain Errors on Simulated Cochlear Implant Speech Intelligibility. *Trends in Hearing*, 23, 1–12. [doi]
- Kressner, A. A., Westermann, A., & Buchholz, J. M. (2018). The impact of reverberation on speech intelligibility in cochlear implant recipients. *The Journal of the Acoustical Society of America*, 144(2), 1113–1122. [doi]
- Kressner, A. A., Westermann, A., Buchholz, J. M., & Rozell, C. J. (2016). Cochlear implant speech intelligibility outcomes with structured and unstructured binary mask errors. *The Journal of the Acoustical Society of America*, 139(2), 800–810. [doi]
- Kressner, A. A., & Rozell, C. J. (2015). Structure in time-frequency binary masking errors and its impact on speech intelligibility. *The Journal of the Acoustical Society of America*, 137(4), 2025. [doi]

Student supervision

PhD co-supervision: 4; MSc co-supervision: 6

Selected professional activities

Ear, Nose, and Throat Surgical & Audiological Clinic's Research Council; Member of the Danish Sound Cluster's working group on 'Healthcare and welfare'; Organizing Committee for the International Symposium on Auditory and Audiological Research; Technical Committee for the Baltic-Nordic Acoustic Meeting 2020; Editor for the Proceedings of the International Symposium on Auditory and Audiological Research; Topic Editor for Audiology Research; Reviewer for Journal of the Association for Research in Otolaryngology, Trends in Hearing, Speech Communication, Journal of the Acoustical Society of America, IEEE Transactions on Audio, Speech, and Language Processing