

# Abigail Anne Kressner

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## 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

2020-2022	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

Thomas Bentsen, Stefan J. Mauger, Abigail Anne Kressner, Tobias May, and Torsten Dau. The impact of noise power estimation on speech intelligibility in cochlear-implant speech coding strategies, *Journal of the Acoustical Society of America*, 145(2):818-821, February 2019 [paper].

Abigail Anne Kressner, Tobias May, and Torsten Dau. The effect of noise reduction gain errors on simulated cochlear implant speech intelligibility, *Trends in Hearing*, 23:1-12, February 2019 [paper].

Abigail Anne Kressner, Adam Westermann, and Jörg Matthias Buchholz. The impact of reverberation on speech intelligibility in cochlear implant recipients, *Journal of the Acoustical Society of America*, 144(2):1113-1122, August 2018. [paper]

Abigail Anne Kressner, Adam Westermann, Jörg Matthias Buchholz, and Christopher John Rozell. Cochlear implant speech intelligibility outcomes with structured and unstructured binary mask errors. *Journal of the Acoustical Society of America*, 139(2):800-810, February 2016. [paper]

Abigail Anne Kressner, David V. Anderson, and Christopher John Rozell. Evaluating the generalization of the Hearing Aid Speech Quality Index (HASQI). *IEEE Transactions in Audio, Speech and Language Processing*, 21(2):407-415, February 2013. [paper, code]

## Student supervision

PhD co-supervision: 4; MSc/BSc co-supervision: 3

## Selected professional activities

Ear, Nose, and Throat Surgical & Audiological Clinic's Research Council; Organizing Committee for the International Symposium on Auditory and Audiological Research; Editor for the Proceedings of the International Symposium on Auditory and Audiological Research; Technical Committee for the Baltic-Nordic Acoustic Meeting 2020; 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*