

Abigail Kressner

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Mailing address

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Education

- 2015 May Ph.D. Electrical and Computer Engineering · Georgia Institute of Technology
Thesis: Structure in time-frequency binary masking
Advisor: Dr. Christopher J. Rozell
- 2011 August M.S. Electrical and Computer Engineering · Georgia Institute of Technology
Thesis: Auditory models for evaluating algorithms
Advisor: Dr. Christopher J. Rozell
- 2007 December B.S. Biomedical Engineering · Washington University in St. Louis

Awards

- 2014-2015 National Science Foundation (NSF) Graduate Research Opportunities Worldwide (GROW)
- 2014 Chih Foundation Research Award
- 2010-2015 National Science Foundation (NSF) Graduate Research Fellowship Program (GRFP)
- 2010-2013 National Defense Science & Engineering Graduate (NDSEG) Fellowship
- 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

Work experience

- National Acoustic Laboratories · Sydney, Australia · 6/2014 to 2/2015
- Implemented a system that facilitates evaluation of signal processing algorithms with cochlear implant recipients in a realistic virtual environment
- United Sciences, LLC · Atlanta, Georgia, USA · 6/2013 to 3/2014
- Advised in the areas of acoustics and signal processing for new product development
- Widex A/S · Vaerloese, Denmark · 1/2008 to 7/2008

- ▶ Investigated the influence of earmold venting on hearing aid feedback to identify a better protocol for vent placement

Knowles Electronics, LLC · Itasca, Illinois, USA · 5/2007 to 8/2007

- ▶ Investigated the use of two directional microphones for sound source separation in the ear canal

AuSIM, Inc · Palo Alto, California, USA · 5/2006 to 8/2006

- ▶ Collaborated with engineering team in designing a field communication system that creates true 3D spatial relationships among users

Teaching experience

Course development · Georgia Institute of Technology · 5/2013 to 6/2014

- ▶ Development of signal processing laboratory assignment based on psychoacoustic masking

Teacher's assistant · Washington University in St. Louis · 8/2007 to 12/2007

- ▶ Department of Biomedical Engineering · Quantitative Physiology

Tutor · Washington University in St. Louis · 8/2005 to 5/2007

- ▶ Subjects included Advanced Engineering Mathematics, Calculus, Differential Equations, and Engineering & Scientific Computing

Professional activities

2014-present Reviewer for IEEE Transactions on Audio, Speech, and Language Processing

2013-2014 Member of American Auditory Society

2010-2014 Member of Institute of Electrical and Electronics Engineers (IEEE) and IEEE Signal Processing Society

Community activities

2010-2012 Board member of Revive Atlanta Initiative, Inc.