Daniel Guest

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Education

University of Minnesota — Minneapolis, MN
Ph.D. Psychology (student) — 2017 – present
The University of Texas at Dallas — Richardson, TX
B.S. Psychology — 2013 – 2017

Awards, Scholarships, and Honors

University of Minnesota, Center for Applied and Translational Sensory Science
NSF-NRT Graduate Training Program in Sensory Science Fellowship — 2018 – present
University of Minnesota, College of Liberal Arts
College of Liberal Arts Graduate Fellowship — 2017 – present
National Science Foundation
GRFP Honorable Mention — 2018
University of Minnesota, Department of Psychology
Graduate Summer Research Fellowship — 2018
The University of Texas at Dallas
Summa Cum Laude — 2017
Academic Excellence National Merit Scholarship — 2013 – 2017
Dean's List — 2013 – 2017
Undergraduate Research Scholar Award — 2015, 2016
The University of Texas at Dallas, School of Behavioral and Brain Sciences
Behavioral and Brain Sciences Honors — 2017
Student Leadership Award — 2017
Dean's Award for Excellence — 2017
Santrock Travel Award — 2015
Buhrmester Summer Research Award — 2015

Research Experience

Auditory Perception and Cognition Lab — Minneapolis, MN
Graduate Student, advised by Andrew Oxenham — 2017 – present
Speech Perception Lab — Richardson, TX
Undergraduate Research Assistant, advised by Peter Assmann — 2015 – 2017
Thesis topic: Perception of voice gender in children's speech

Professional Experience

Oticon, Eriksholm Research Center — Helsingør, Denmark
Summer intern in Augmented Hearing, advised by Lars Bramsløw — 2019
Topic of study: Low-latency speech segregation by deep neural networks

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Publications

Guest, D. R. & Oxenham, A. J. (2019d). The role of pitch and harmonic cancellation when listening to speech in harmonic background sounds. *The Journal of the Acoustical Society of America*, *145*(5), 3011–3023. doi:10.1121/1.5102169

Kapolowicz, M. R., **Guest, D. R.**, Montazeri, V., Baese-Berk, M. M., & Assmann, P. F. (n.d.). Perception of spectrally-shifted foreign-accented speech. In preparation

Talks

Guest, D. R. & Oxenham, A. J. (2019a). Pitch perception of concurrent high-frequency complex tones. Invited talk presented at Acoustics '19 Louisville

Posters

Guest, D. R. & Oxenham, A. J. (2019c). Pitch perception of concurrent high-frequency complex tones: modeling behavior with auditory nerve simulations. Poster presented at ISAAR 2019

Guest, D. R. & Oxenham, A. J. (2019b). Pitch perception of concurrent high-frequency complex tones. Poster presented at ARO 2019

Guest, D. R. & Oxenham, A. J. (2018b). The role of pitch and harmonic cancellation when listening to speech in background sounds. *The Journal of the Acoustical Society of America*, *144*. Poster presented at Acoustics '18 Victoria. doi:10.1121/1.5068208

Kapolowicz, M. R., **Guest, D. R.**, Montazeri, V., Baese-Berk, M. M., & Assmann, P. F. (2018). Perception of spectrally-shifted non-native speech. *The Journal of the Acoustical Society of America*, *144*, 1866. Poster presented at Acoustics '18 Victoria. doi:10.1121/1.5068208

Guest, D. R. & Oxenham, A. J. (2018a). The role of pitch and harmonic cancellation in simultaneous speech segregation. Poster presented at 2018 UMN Center for Cognitive Science Spring Research Day

Kapolowicz, M. K., **Guest, D. R.**, Montazeri, V., & Assmann, P. F. (2017). Effect of frequency shifts on talker recognition in native and foreign-accented speech. *The Journal of the Acoustical Society of America*. Poster presented at Acoustics '17 New Orleans. doi:10.1121/1.5014953

Guest, D. R., Montazeri, V., Kapolowicz, M. R., & Assmann, P. F. (2017). Perception of voice gender in children's voices by cochlear implant users. *Journal of the Acoustical Society of America*, *141*(5), 3839. Poster presented at Acoustics '17 Boston. doi:10.1121/1.4988543

Guest, D. R. (2017). Perception of voice gender in children's voices by cochlear implant users. Poster presented at 6th UT Dallas Annual Exhibition of Excellence in Undergraduate Research

Guest, D. R., Kapolowicz, M. R., Hossain, S., Montazeri, V., & Assmann, P. F. (2016). Perception of voice gender in cochlear implant simulations of children's speech. *Journal of the Acoustical Society of America*, *139*(4), 2124. Poster presented at Acoustics '16 Salt Lake City. doi:10.1121/1.4950328

Guest, D. R. (2016). Perception of voice gender in cochlear implant simulations of children's speech. Poster presented at the 5th UT Dallas Annual Exhibition of Excellence in Undergraduate Research

Academic and Professional Memberships

Acoustical Society of America

Student Council Representative, Psychological and Physiological Acoustics	2018 – present
Student Member	2017 – present

Association for Research in Otolaryngology

Student Member	2018 – present

University of Minnesota, Center for Applied and Translational Sensory Science

NSF-NRT Graduate Training Program in Sensory Science Cohort Member	2017 – present

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Relevant Coursework

Current coursework is in *italics*
Graduate GPA: 4.00, graduate courses in black

Engineering: *Biomedical Digital Signal Processing*, Introduction to Electrical Engineering, Mechanics
Neuroscience: Behavioral Neuroscience, Cognitive Neuroscience
Speech, language, and hearing: Anatomy and Physiology of Speech and Hearing, Communication Sciences, Communication Disorders, Linguistics, Normal Language Development, Phonetics
Statistics and mathematics: Applied Regression Analysis, Calculus I, Calculus II, Differential Equations, Linear Algebra, Multivariable Calculus, Introduction to Neural Networks, Research Design and Analysis, Theoretical Concepts of Calculus, Theory of Statistics I, Theory of Statistics II
Psychology: Abnormal Psychology, Child Development, Computational Vision, Experimental Projects, *Functional Imaging: Training*, Historical Perspectives of Psychology, Human Experience of Sensory Loss, Proseminar in Perception, Psychology of Music, Social Psychology

Skills and Technical Experience

Computer skills: bash, git, LaTeX, Linux, Sweave/KnitR
Languages: English (native), Spanish, Portuguese
Mathematics: Differential equations, linear algebra, multivariable calculus, real analysis
Programming languages: MATLAB, Python, R
Statistics: Bayesian statistics, generalized linear regression models, multilevel/hierarchical models, neural networks and generative models, probability theory

References

Andrew Oxenham
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Peter Assmann
Professor, School of Behavioral and Brain Sciences, The University of Texas at Dallas
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