

Skyler G. Jennings  
College of Health  
Dept. of Communication Sciences and Disorders  
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**I. EDUCATION**

Utah State University 900 Old Main Hill Logan UT 24322	B.S.	2004 <i>summa cum laude</i>
Purdue University 610 Purdue Mall West Lafayette, IN 47907	M.S.	2007
Purdue University 610 Purdue Mall West Lafayette, IN 47907	Au.D.	2008
Purdue University 610 Purdue Mall West Lafayette, IN 47907	Ph.D.	2011 Advisor: Elizabeth Strickland

**II. CERTIFICATIONS**

ASHA Certificate of Clinical Competence in Audiology	2010 – Present
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**III. EMPLOYMENT**

Associate Professor The University of Utah 390 S. 1530 E. BEHS 1201 Salt Lake City, 84112	Dept. of Communication Sciences and Disorders	2018 – Present
Assistant Professor The University of Utah 390 S. 1530 E. BEHS 1201 Salt Lake City, 84112	Dept. of Communication Sciences and Disorders	2011 – 2018
Adjunct Faculty The University of Utah 50 N. Medical Dr. SOM SC120 Salt Lake City, 84132	Division of Otolaryngology, Head and Neck Surgery	2018 – Present
Adjunct Faculty The University of Utah 390 S. 1530 E. BEHS 1201 Salt Lake City, 84112	Neuroscience Program	2015 – Present

Visiting Assistant Professor    Dept. of Otolaryngology, Head and Neck Surgery    2012 – Present  
Medical University of  
South Carolina  
96 Jonathan Lucas St.  
Charleston, SC 29425

#### IV. PROFESSIONAL AFFILIATIONS

American Speech Language Hearing Association	Member
Acoustical Society of America	Member
Association for Research in Otolaryngology Associate	Member

#### V. PUBLICATIONS

##### Peer Reviewed Articles

Jennings SG, Sivas J, Stone C (2018). "Effects of Masker Envelope Fluctuations on the Temporal Effect," *J. Assoc. Res. Otolaryngol.* 19(6), 717-727

Jennings SG, Chen J, Fultz SE, Ahlstrom JB, Dubno JR (2018). "Amplitude Modulation Detection with a Short-Duration Carrier: Effects of a Precursor and Hearing Loss," *J. Acoust. Soc. Am.* 143, 2232-2243

Almishaal A, Bidelman GM, Jennings SG (2017). "Notched-Noise Precursors Improve Detection of Low-Frequency Amplitude Modulation," *J. Acoust. Soc. Am.* 141, 324-333

Jennings SG, Ahlstrom JB, and Dubno JR (2016). "Effects of Age, Hearing Impairment, and Efferent Feedback on Overshoot," *J. Acoust. Soc. Am.* 140, 2481-2493

Bidelman GM, Jennings SG, and Strickland EA (2015). "PsyAcoustX: A flexible MATLAB® package for psychoacoustics research," *Front. Psychol.* 6

Jennings SG, Ahlstrom JB, and Dubno JR (2014). "Computational Modeling of Individual Differences in Behavioral Estimates of Cochlear Nonlinearities," *J. Assoc. Res. Otolaryngol.* 15, 945-960

Bidelman GM, Schug JM, Jennings SG, and Bhagat SP (2014). "Psychophysical Auditory Filter Estimates Suggest Sharper Cochlear Tuning in Musicians," *J. Acoust. Soc. Am.* 136, EL33-39

Jennings SG, and Strickland EA (2012). "Evaluating the Effects of Olivocochlear Feedback on Psychophysical Measures of Frequency Selectivity," *J. Acoust. Soc. Am.* 132, 2497-2513

Jennings SG, and Strickland EA (2012). "Auditory Filter Tuning Inferred with Short Sinusoidal and Notched-noise Maskers," *J. Acoust. Soc. Am.* 132, 2483-2496

Chintanpalli AK, Jennings SG, Heinz MG, and Strickland EA (2012). "Modeling the anti-masking effects of the olivocochlear reflex in auditory-nerve responses to tones in sustained noise," *J. Assoc. Res. Otolaryngol.* 13, 219-235

Jennings SG, Heinz MG, and Strickland EA (2011). "Evaluating Proposed Mechanisms of Psychophysical Overshoot Using a Computational Model of the Auditory Periphery," *J. Assoc. Res. Otolaryngol.* 12, 345-360

Jennings SG, Strickland EA, and Heinz MG (2009). "Precursor Effects on Behavioral Estimates of Frequency Selectivity and Gain in Forward Masking," *J. Acoust. Soc. Am.* 125, 2172-2181

## Book Chapters / Entries

Jennings SG (2019). "Digital Signal Processing" In J.S. Damico, and M.J. Ball (Eds.) *The SAGE Encyclopedia of Human Communication Sciences and Disorders*. Thousand Oaks, CA: Sage..

Jennings SG, and Strickland EA (2010). "The Frequency Selectivity of Gain Reduction Masking: Analysis Using Two Equally Effective Maskers," In E. A. Lopez-Poveda, A. R. Palmer, and R. Meddis (Eds.) *The Neurophysiological Bases of Auditory Perception*. New York: Springer., 47-58

## Other Articles

Jennings SG, Dubno JR (2012). "The medial olivocochlear reflex: Nature's automatic gain control?" *Audiology Today* 5, 58-61

Strickland EA, and Jennings SG (2007). "An Adjustable Auditory System," *Acoustics Today*. 3(4), 27-28

## **VI. PRESENTATIONS, INVITED LECTURES AND SYMPOSIA-FREE COMMUNICATIONS**

### Conference Talks/Seminars

Jennings SG (2018). "Acoustic Priming Improves Perceptual and Neural Intensity Resolution in Humans," presented to *The University of Rochester Hearing Research Group* (Rochester, New York)

Jennings SG (2018). "Electrocochleography: Classic and Innovative Applications," presented at the *The Utah Speech-Language-Hearing Association* (Salt Lake City, Utah)

Jennings SG (2017). "Humble Suggestions from a Previous Lessons for Success Attendee," presented at *The Fifteenth Annual Lessons for Success of the American Speech-Language-Hearing Association* (Rockville, MD)

Jennings SG (2016). "Hidden Hearing Loss: The Effects of Noise Exposure and Aging," presented at the *Spring Audiology Symposium of Intermountain Universities* (Salt Lake City, Utah)

Jennings SG (2016). "Hidden Hearing Loss: The Effects of Noise Exposure and Aging," presented at the *The Utah Speech-Language-Hearing Association* (Provo, Utah)

Jennings SG (2015). "Efferent Influences on Auditory Performance in Background Noise," presented to *The University of Utah Inner Ear Research Group* (Salt Lake City, Utah)

Jennings SG (2015). "Physiological Mechanisms for Robust Speech Perception in Noise," presented to *The Utah Speech-Language-Hearing Association* (Ogden, Utah)

Jennings SG (2014). "Evidence for Olivocochlear Processing in Psychoacoustics: Past Research and Future Directions," presented to *Primary Children's Hospital: Department of Audiology* (Salt Lake City, Utah)

Jennings SG (2011). "Reducing Cochlear Amplification Increases Auditory Contrast," presented to *The Department of Otolaryngology at the Medical University of South Carolina* (Charleston, South Carolina)

Jennings SG (2011). "Reducing Cochlear Amplification Increases Auditory Contrast," presented to *The Department of Communication Sciences and Disorders at the University of Utah* (Salt Lake City, Utah)

Jennings SG (2009). "The Frequency Selectivity of Gain Reduction Masking: Analysis Using Two Equally Effective Maskers," *The 15th International Symposium On Hearing* (Salamanca, Spain)

Strickland EA, and Jennings SG (2008). "What Psychoacoustics may tell us about Auditory Efferent Feedback," *Purdue Speech, Language, and Hearing Sciences Brown Bag Lecture Series* (West Lafayette, IN)

Poster Presentations (\* indicates student projects)

\*Chen J, Simpson MJ, Jennings SG, (2018). "Effects of High-level Contralateral Noise on Simultaneous Measurement of Electrocochleography and Ear Canal Pressure in Normal-Hearing Adults" *Forty-second Annual Midwinter Meeting of the Association for Research in Otolaryngology* (Baltimore, Maryland)

Jennings SG, (2018). "Effects of a Noise Precursor on Signal-to-noise Ratios Measured from the Human Auditory Nerve" *Forty-first Annual Midwinter Meeting of the Association for Research in Otolaryngology* (San Diego, California)

\*Chen J, Jennings SG, Ahlstrom JB, Fultz SE, and Dubno JR (2017). "Amplitude Modulation Detection with a Short Pure-tone Carrier: Effects of a Noise Precursor and Hearing Loss" *Fortieth Annual Midwinter Meeting of the Association for Research in Otolaryngology* (Baltimore, Maryland)

\*Morgan SD, Jennings SG, and Ferguson SH (2016). "Perceived emotion in clear speech: Effect of simulated hearing loss" *Academy of Rehabilitative Audiology Institute* (Vancouver, British Columbia)

\*Chen J, and Jennings SG (2016). "Evaluating whether increment detection at mid-to-high pedestal frequencies is consistent with cochlear compression" *One-Hundred Seventy-First Meeting of the Acoustical Society of America* (Salt Lake City, Utah)

\*Almishaal A, and Jennings SG (2016). "Effects of a precursor on amplitude modulation detection are consistent with efferent feedback" *One-Hundred Seventy-First Meeting of the Acoustical Society of America* (Salt Lake City, Utah)

\*Morgan SD, Jennings SG, and Ferguson SH (2016). "Perceived emotion in clear speech: Effect of simulated hearing loss" *One-Hundred Seventy-First Meeting of the Acoustical Society of America* (Salt Lake City, Utah)

\*Almishaal A, and Jennings SG (2015). "Effects of Carrier Intensity on Amplitude Modulation Detection using High and Low-fluctuating Noises" *Thirty-eighth Annual Midwinter Meeting of the Association for Research in Otolaryngology* (Baltimore, Maryland)

\*Chen J, and Jennings SG (2015). "Improved Decrement Detection with Decrement Location May Result from Efferent Processing" *Thirty-eighth Annual Midwinter Meeting of the Association for Research in Otolaryngology* (Baltimore, Maryland)

Jennings SG, \*Hirschmugl KJ (2015). "The Effects of Masker Fluctuation on Overshoot Measured with Narrowband-Noise Maskers" *Thirty-eighth Annual Midwinter Meeting of the Association for Research in Otolaryngology* (Baltimore, Maryland)

Jennings SG, Ahlstrom JB, and Dubno JR (2014). "Modeling Individual Differences in Overshoot: Effects of Age, Hearing Loss, and Efferent Feedback" *One-Hundred Sixty-Seventh Meeting of the Acoustical Society of America* (Providence, Rhode Island)

Jennings SG, Ahlstrom JB, and Dubno JR (2014). "Effects of Age, Hearing Impairment and Efferent Feedback on Overshoot" *Forty-First Annual Scientific and Technology Conference of the American Auditory Society* (Scottsdale, Arizona)

Jennings SG, and Almishaal A (2013). "The Effects of Compression, Masker Duration and Target Duration on Estimates of Frequency Resolution," *Twenty-fifth Annual Midwinter Meeting of the Association for Research in Otolaryngology* (Baltimore, Maryland)

Jennings SG, and Strickland EA (2011). "Modeling the Effects of the Medial Olivocochlear Reflex, Temporal Integration, and Off-Frequency Listening on Estimates of Frequency Selectivity" *One-Hundred Sixty-First Meeting of the Acoustical Society of America* (Seattle, Washington)

Chintanpalli AK, Jennings SG, Heinz MG, and Strickland EA (2011). "Modeling the Anti-Masking Effects of the Olivocochlear Reflex in Auditory-Nerve Responses to Tones in Noise" *One-Hundred Sixty-First Meeting of the Acoustical Society of America* (Seattle, Washington)

Jennings SG, and Strickland EA (2011). "Perceptual and Modeling Estimates of Frequency Selectivity Suggest that Acoustic Stimulation Reduces Cochlear Gain" *Twenty-fourth Annual Midwinter Meeting of the Association for Research in Otolaryngology* (Baltimore, Maryland)

Jennings SG, Francis A, and Strickland EA (2010). "An Efferent Hypothesis May Explain Why Long Duration Vowels Enhance Spectral Contrast in Vowel Masking Patterns" *Twenty-third Annual Midwinter Meeting of the Association for Research in Otolaryngology* (Anaheim, California)

Jennings SG, Heinz MG, and Strickland EA (2008). "Exploring the Psychophysical Temporal Effect in Masking Using a Model of the Auditory Periphery" *J. Acoust. Soc. Am.* 123, 3860 (Paris, France)

Jennings SG, and Strickland EA (2007). "Reductions in Gain from Pre-Masker Stimulation at the Signal Frequency (A)," *J. Acoust. Soc. Am.* 121, 3197 (Salt Lake City, Utah)

## VII. GRANT WRITING AND RELATED ACTIVITIES

### Active

"Influences of the Efferent System on Human Auditory Function," (S.G. Jennings, PI), National Institute on Deafness and Other Communication Disorders - K23 (1K23DC014752-01). Total direct costs: \$750,000

### Under Review

### Completed

"Determining the Influence of the Medial Olivocochlear Reflex on Speech Perception in Noisy Environments," (S.G. Jennings, PI), University of Utah College of Health Research Grant. Total direct costs: \$5,000

"Clinic Expansion of Audiological Services," (M. Blomgren, S. Ferguson, S. Jennings co-PIs), Dumke Foundation. Total direct costs: \$55,000

## VIII. TEACHING, ADVISING AND OTHER ASSIGNMENTS

### Courses Taught

CSD 7420 – Psychoacoustics

Spring 2019  
12 Students

CSD 6650 - Advanced Anatomy and Physiology of Hearing

Fall 2019  
12 Students

CSD 7420 – Psychoacoustics	Spring 2018 9 Students
CSD 6650 - Advanced Anatomy and Physiology of Hearing	Fall 2018 9 Students
CSD 7420 – Psychoacoustics	Spring 2017 19 Students
CSD 6650 - Advanced Anatomy and Physiology of Hearing	Fall 2016 12 Students
CSD 7880 - Advanced Electrophysiology	Spring 2016 9 Students
CSD 7050 - Signals and Systems in Hearing Disorders	Spring 2016 7 Students
CSD 6650 - Advanced Anatomy and Physiology of Hearing	Fall 2015 13 Students
CSD 4200 - Hearing Science	Fall 2015 29 Students
CSD 6650 - Advanced Anatomy and Physiology of Hearing	Fall 2014 9 Students
CSD 4200 - Hearing Science	Fall 2014 44 Students
CSD 7880 - Advanced Electrophysiology	Spring 2014 9 Students
CSD 7420 – Psychoacoustics	Spring 2014 20 Students
CSD 6650 - Advanced Anatomy and Physiology of Hearing	Fall 2013 19 Students
CSD 4200 - Hearing Science	Fall 2013 57 Students
CSD 7880 - Advanced Electrophysiology	Spring 2013 9 Students
CSD 7050 - Physical and Medical Aspects of Audiology	Fall 2012 8 Students
CSD 6650 - Advanced Anatomy and Physiology of Hearing	Fall 2012 10 Students
CSD 7880 - Advanced Electrophysiology	Spring 2012 7 Students
CSD 7420 – Psychoacoustics	Spring 2012

	7 Students
CSD 6650 - Advanced Anatomy and Physiology of Hearing	Fall 2011 11 Students
SLHS 460 Basic Auditory Assessment (Laboratory Instructor)	Fall 2007 ~25 students
SLHS 450 Aural Rehabilitation (Laboratory Instructor)	Fall 2006 ~25 students

Undergraduate Theses:

2011-2012: Teah Caine (B.S., 2013). "The Influence of Compression on Behavioral Estimates of Frequency Resolution." (Honors thesis, University of Utah)

Master's Theses Committee Member Assignments:

2018 – current: Jacqueline McCook (expected graduation: 2019)  
2018 – current: David Castellanos-Fuentes (expected graduation: 2019)

Doctor of Audiology Capstone Projects:

2018-current: Juan Dominguez (Au.D., expected 2021). "Effects of a Noise Precursor on Signal-to-noise Ratios Measured from the Human Auditory Nerve"

2018-current: Tevan Trujillo (Au.D., expected 2021). "Clinical Assessment of Cochlear Synaptopathy: Middle Ear Reflex Measures"

2018-current: Michael Simpson (Au.D., expected 2020). "Optimization of Electrocochleography Measured with a Tympanic Membrane Electrode"

2018-current: Levi Asay (Au.D., expected 2020). "Influences of Middle Ear Muscle Activity on Human Electrocochleography"

2017-2018: Krista Nickel (Au.D., expected 2019). "Effects of Efferent Feedback on Consonant Identification"

2017-2018: Braden Syphus (Au.D., expected 2019). "Clinical Assessment of Cochlear Synaptopathy"

2015-2016: Andrea Page (Au.D., 2017). "Effects of Efferent Feedback on Speech-in-Noise Performance"

2015-2016: Caitlin Stone (Au.D., 2017). "Effects of Preceding Masker Fluctuation on Overshoot"

2015-2016: Gabriela Perez (Au.D., 2017). "Growth of Masking with Short and Long Probes"

2014-2015: Kayla Hirschmugl (Au.D., 2016). "Temporal Effects with Low-Fluctuating Maskers"

2014-2015: Paul Groesbeck (Au.D., 2016). "Case Studies in Electrophysiology"

2013-2014: Kelsey Woodard (Au.D., 2015). "Effects of Age, Hearing Impairment, and Efferent Feedback on Overshoot"

2013-2014: Hannah Meeker (Au.D., 2015). "Frequency Resolution in the Cochlea: Psychophysical Tuning Curves and Issues Associated with their Measurement"

Doctoral (Ph.D.) Students:

2013 – current:	Jessica Chen	(expected graduation: 2019)
2012 – 2017:	Ali Alimishaal	(dissertation title: "Effects of Cochlear Compression and Efferent Feedback on Amplitude Modulation detection")

Doctoral (Ph.D.) Committee Member Assignments:

2018 – current	Chelsea Sommer	(expected graduation: 2020)
2017 – current:	Jeong Min Lee	(expected graduation: 2019)
2016 – current:	Jennifer Pierce	(expected graduation: 2018)
2016 – 2019:	Shae Morgan	(dissertation title: "Informational Masking and Emotion in the Speech Signal)

**IX. EDITORIAL EXPERIENCE**

Frontiers in Auditory Cognitive Neuroscience (Review Editor)

**X. REVIEWER EXPERIENCE**

Journal of the Acoustical Society of America  
PLOS ONE  
Ear and Hearing  
Hearing Research

**XI. GRANT REVIEW COMMITTEE/STUDY**

Medical Research Council (MRC) Peer Reviewer

**XII. SYMPOSIUM/MEETING CHAIR/COORDINATOR**

Organizing Committee Member, 171st Meeting of the ASA in Salt Lake City (2014-2016)  
Organizer, ARO Young Investigator's Symposium (Feb 2015 meeting)

**XIII. AWARDS**

National

Lessons for Success Attendee, American Speech, Language, Hearing Association	2015
NIDCD Mentee in Otolaryngology and Audiology, NIH	2012
New Century Scholars Doctoral Scholarship, ASHA Foundation	2009
Leo Doerfler Memorial Scholarship, Audiology Foundation of America	2008
Outstanding Au.D. Student Award Nominee, Audiology Foundation of America	2006
Outstanding Au.D. Student Award Nominee, Audiology Foundation of America	2005

State

Outstanding Audiology Graduate Student, Indiana Speech and Hearing Association	2006
Outstanding Audiology Graduate Student, Indiana Speech and Hearing Association	2005

University



Vice President's Clinical and Translational Scholar, The University of Utah	2014
Francis Patton Wilson Memorial Scholarship, Purdue University	2008
SLHS Alumni and Friends Scholarship, Purdue University	2008
Outstanding Graduate Teaching Assistant, Purdue University	2007
Earl and Eleanor Swansen Scholarship, Purdue University	2007
Susan and Bryan Erler Scholarship, Purdue University	2006
Francis Patton Wilson Memorial Scholarship, Purdue University	2005
Andrews Fellowship, Purdue University	2004
College of Education Tuition Scholarship, Utah State University	2003

#### **XIV. SERVICE**

##### University/College:

Member, College Council, College of Health (2016-current)  
 Member, Admissions Committee, Neuroscience Program (2015-2018)  
 Member, Campus Health and Safety Committee (2013-2017)  
 Member, College of Health Realignment Committee (09/2014-12/2014)

##### Department:

Director, Ph.D. Program in Communication Sciences and Disorders (2018-current)  
 Member, Retention / Promotion Committee for Clinical Faculty (2016-current)  
 Member, Scholarship Committee (2015-current)  
 Member, Graduate Admissions Committee in Audiology (2012-current)  
 Member, Curriculum Committee in Audiology (2012-current)  
 Member, Audiology Faculty Search Committee (2014-2016)

##### National/International

Member, ASA Committee on Standards (2014-current)

#### **XV. MISCELLANEOUS SCHOLARSHIP**

#### **XVI. CLINICAL EXPERIENCE**

<u>Doctor of Audiology Extern</u>	Indiana University School of Medicine
<i>Indiana University / Clarian Hospitals</i>	2007-2008
Assessed adult and pediatric patients with hearing and/or balance disorders using behavioral and electrophysiological techniques. Provided adult and pediatric aural (re)habilitation through the following services: hearing instrument fittings/adjustments, cochlear implant mapping/programming, bone-anchored hearing aid fittings, frequency compression hearing aid fittings. Monitored auditory health during surgery and during pharmacological treatment via intraoperative assessment and serial audiometric evaluations.	

<u>Audiology Intern</u>	Clarian-Arnett Clinic, Lafayette, IN
	Spring 2007
Assessed adult and pediatric patients with hearing complaints or disorders. Provided adult and pediatric aural (re)habilitation through hearing aid fittings/adjustments and counseling.	

<u>Graduate Student Clinician</u>	Purdue University Audiology Clinic
	2004-2006

Assessed adult and pediatric patients with hearing complaints or disorders. Provided adult and pediatric aural (re)habilitation through hearing aid fittings/adjustments, counseling, auditory training and speech-reading exercises.

Undergraduate Student Clinician

Utah State Speech/Language Clinic  
2003-2004

Prepared and administered articulation therapy to a young child with a phonological disorder. Tracked clinical progress. Reported therapy outcomes via written documents and formal meetings with supervisors and parents.