

## Amanda I. Rodriguez, Ph.D., Au.D., CCC-A

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### EDUCATION

Texas Tech University Health Sciences Center, School of Health Professions,  
 Department of Speech, Language, and Hearing Sciences  
 Doctor of Philosophy in Vestibular Function and Assessment, 2016  
 Dissertation Title: *The identification of postural instability and self-handicap characteristics in adults with chronic unilateral horizontal semicircular canal and otolith dysfunction*

Texas Tech University Health Sciences Center, School of Allied Health Sciences,  
 Department of Speech, Language, and Hearing Sciences  
 Doctor of Audiology, 2014

The University of Texas at Austin,  
 Moody College of Communication  
 Bachelor of Science in Communication Sciences and Disorders, 2010

### POSTDOCTORAL TRAINING

Boys Town National Research Hospital,  
 Vestibular and Balance Laboratory  
 NIH T-32 Postdoctoral Research Fellow, 2016 - 2018

### APPOINTMENTS

*The University of Nebraska- Lincoln, August 2018-*  
 Assistant Professor, Department of Special Education & Communication Disorders,  
 Resident Faculty, Center for Brain, Biology, and Behavior  
 Director, The Concussion and Vestibular Evaluation Laboratory

### PUBLICATIONS

#### Peer- Reviewed

Greenwalt, N. L., Patterson, J. N., **Rodriguez, A. I.**, Gordon, K., & Janky, K. (*in press, Ear & Hearing*). Optimal Bone Conduction Method for Vestibular Evoked Myogenic Potential (VEMP) testing in Children.  
 Impact Factor: 3.129

**Rodriguez, A. I.**, Marler, E., Fitzpatrick, D., Creutz, T., Cannon, S. A., Thomas, M., & Janky, K. L. (2020). Optimization of Cervical and Ocular Vestibular Evoked Myogenic Potential Testing Using an Impulse Hammer in Adults, Adolescents, and Children. *Otology & Neurotology*, 41(6), 817–827.  
 Impact Factor: 1.712

Patterson, J., **Rodriguez, A. I.**, Barin, K., & Janky, K. L. Effect of Gaze Angle During the Vertical Video Head Impulse Test Across Two Devices in Healthy Adults and Subjects With Vestibular Loss. (2020). *Otology & Neurotology*. 41(6):e751-e758.  
 Impact Factor: 1.712

Fuemmeler, E., **Rodriguez, A. I.**, Thomas, M., Creutz, T., Fitzpatrick, D., & Janky, K. L. (2020). Vestibular Evoked Myogenic Potential (VEMP) Test-Retest Reliability in Children. *Otology & Neurotology*, 41(8), e1052–e1059.

Impact Factor: 1.712

**Rodriguez, A. I.**, Thomas, M. L. A., & Janky, K. (2019). Air-Conducted Vestibular Evoked Myogenic Potential Testing in Children, Adolescents, and Young Adults: Thresholds, Frequency Tuning, and Effects of Sound Exposure. *Ear & Hearing*, 40(1), 192-203.

Impact Factor: 3.129

**Rodriguez, A. I.**, Thomas, M. L. A., Fitzpatrick, D., & Janky, K. (2018). Effects of High Sound Exposure During Air-Conducted Vestibular Evoked Myogenic Potential Testing in Children and Young Adults. *Ear & Hearing*, 39(2), 269–277.

Impact Factor: 3.129

Judge, P., **Rodriguez, A.**, Barin, K., & Janky, K. (2018). The effect of target size, distance, and visual acuity on vHIT in young adults. *Otolaryngology- Head & Neck Surgery*, 159(4), 739-742.

Impact Factor: 2.310

**Rodriguez, A. I.**, Zupancic, S., Song, M., Nguyen, T., & Cordero, J. (2017). Analysis of interprofessional team approach in achieving improved diagnosis of the dizzy patient. *Journal of American Academy of Audiology*, 28, 177-186.

Impact Factor: 1.65

Nukala, B. T., **Rodriguez, A. I.**, Nakano, T., Tsay, J., Lopez, J., Nguyen, T. Q., Zupancic, Z., & Lie, D. Y. C. (2016). Real-Time Gait Classification of Patients vs. Normal Subjects Using a Wireless Wearable Sensor. *Biosensors*, 6(4), 58-60.

Impact Factor: 10.257

Nukala, B. T., Shibuya, N., **Rodriguez, A. I.**, Tsay, J. T., Lopez, J., Nguyen, T. Q., Zupancic, S., & Lie, D. Y. C. (2015). An efficient and robust fall detection system using wireless gait analysis sensor with artificial neural network and support vector machine algorithms. *Journal of Applied Biosensors*, 3 (4), 29-39.

Impact Factor: 10.257

Reel, L., Hicks, C., Ortiz, N., & **Rodriguez, A. I.** (2015). New Resources for audiologists working with Hispanic patients: Spanish translations and cultural training. *American Journal of Audiology*, 24, 11-22.

Impact Factor: 1.558

Zupancic, S. & **Rodriguez, A. I.** (2015). Evidence indicates that cochlear implantation in children with auditory neuropathy spectrum disorder results in favorable outcomes. *Evidence-Based Communication Assessment and Intervention*, 8(2), 98-101.

Impact Factor: 0.290

Wang, J. C., Allen, S. J., **Rodriguez, A. I.**, Zahner, C., Dissanaik, S., Zupancic, S., & Marchbanks, J. (2014). Measurement of the sound intensity during suction of middle ear fluid following myringotomy. *Journal of Laryngology Otology*, 14, 1-8.

Impact Factor: 1.438

Liu, C. & **Rodriguez, A. I.** (2012). Categorical perception of intonation contrasts: Effects of listener's background. *Journal of Acoustical Society of America, Express Letters*, 131 (6) EL427- EL433.

Impact Factor: 1.605

#### Invited Non- Peer- reviewed

**Rodriguez, A. I.** (April, 2020). Walking the Tightrope: When should we be considering pediatric vestibular loss? *Communicologist*, Texas Speech Language and Hearing Association.

Janky, K., & **Rodriguez, A. I.** (2018). Quantitative Vestibular Function Testing in the Pediatric Population. In. Contemporary Concepts in Pediatric Vestibular Assessment and Management. *Seminars in Hearing*, 39(03), 257-274.

Under Review or Revision

Patterson, J., **Rodriguez, A. I.**, & Janky, K. (*under review, Ear & Hearing*). Age related changes in bone conduction vestibular evoked myogenic potentials.

**Rodriguez, A. I.**, Chiao, J., Spencer, G. (*under revision, International Journal of Pediatric Otorhinolaryngology*). Characterization of Otolith Function and Relationship to Sport History in Sport's- Related Concussion: Preliminary Findings.

In Preparation

**Rodriguez, A. I.**, Patterson, J., Braswell Christy, J., & Janky, K. Validation of the Functional Gait Assessment in Children with Cochlear Implants and Concussion.

**FUNDING**

Awarded

**Rodriguez, A. I.**, & Hughes, M. Feasibility of Assessing the Effects of Substance Use on Auditory and Vestibular Function. Rural Drug Addiction Research (RDAR) Center Pilot Program 2021, November 2020, Role: Co-Primary Investigator

Zupancic, S., **Rodriguez, A. I.**, Nguyen, T., & Lie, D. Y. C. Fall Detection in the Geriatric Population using the Dynamic Gait Index (DGI) and Combined Gyroscope/Accelerometer Device. Texas Tech University Health Sciences Center, School of Allied Health Sciences Seed Grant, 2013-2014.  
Role: Co- Primary Investigator

Reel, L., Hicks, C., Ortiz, N., & **Rodriguez, A. I.** Multicultural Grant- Spanish Translation of Audiometric Assessments for Non-Spanish Speaking Clinicians. American Speech-Language-Hearing Association, 2012-2013.  
Role: Co-Investigator

Submitted (pending)

**Rodriguez, A. I.**, Higgins, K., & Schultz, D. Otolith Outcomes in Sports- Related Concussion. National Health Institute, NIDCD R21 Early Investigator Career Award, October 2020.  
Role: Primary Investigator

Submitted (not funded)

**Rodriguez, A. I.**, & Calvi, J. Self-Reported and Physiological Biomarkers of Fatigue and Stress in Adults with Perceptual Persistent Postural Dizziness. University of Nebraska- Lincoln Internal Layman Award, March 2020.  
Role: Primary Investigator

Pritchett, K., Weissling, K., **Rodriguez, A. I.**, & Phatak, V. The Cognitive and Sensory Loss (CASL) Project. Robert Wood Johnson Foundation, Clinical Scholars Program, June 2020.  
Role: Co-Investigator

**Rodriguez, A. I.**, & Calvi, J. Effects of Vestibular Loss on Fatigue and Stress Outcomes. American Academy of Audiology Research in Hearing and Balance Foundation- New Investigator Grant, 2019-2020.  
Role: Primary Investigator

Wang, Y., Hughes, M., **Rodriguez, A. I.**, Dietsch, A., Brennan, M., Hatch, J., Barnes, C., Dowdell, J., & Jones, D. Building the Infrastructure for Collaborative Otorhinolaryngology-Communication-Related Research, Great Plains, Collaboration Planning Grant, 2019.  
Role: Co-Investigator

## INVITED ORAL PRESENTATIONS

**Rodriguez, A. I.** & Vicente, M. Fatigue and Mediating Factors in Vestibular Loss. Boys Town National Research Hospital, SMART Lunch (Vestibular) Series, to be presented January, 12, 2021, *virtual meeting*.

**Rodriguez, A. I.** Vestibular Grand Rounds: Making the Most of Vestibular Testing for Sport's Concussion. American Academy of Audiology, November 12, 2020, *virtual meeting*.

Janky, K., & **Rodriguez, A. I.** Quantitative Vestibular Function Testing in the Pediatric Population. AudiologyOnline- Seminars in Hearing Webinar Series, September 30<sup>th</sup>, 2020.

**Rodriguez, A. I.**, Visual and Vestibular Measure of Dysfunction- Panel. Big Ten- Ivy League Traumatic Brain Injury Research Collaboration, July 15<sup>th</sup>, 2020, *virtual meeting*.

**Rodriguez, A. I.** From Physiology to Functionality: Effects of Sport Concussion on the Vestibular System. Center for Research in Human Movement Variability, University of Nebraska- Omaha Seminar Series, February 14<sup>th</sup>, 2020, Omaha, NE.

**Rodriguez, A. I.** Vestibular Grand Rounds: Vestibular Outcomes in Pediatric Sport's Concussion. American Academy of Audiology, April 13<sup>th</sup>, 2019, Columbus, OH.

**Rodriguez, A. I.** Vestibular and Balance Testing Options for the Student Athlete. University of Nebraska- Lincoln, Department of Athletic Training, January 2<sup>nd</sup> 2019, Lincoln, NE.

**Rodriguez, A. I.** Current Practices in Pediatric Vestibular Evoked Myogenic Potential Testing. American Speech- Language-Hearing Association Convention, November, 17<sup>th</sup>, 2018, Boston, MA.

**Rodriguez, A. I.** A "Balanced" Approach to Pediatric Vestibular Diagnosis, Management, and Prognosis. Texas Speech- Language-Hearing Association Convention, March 2<sup>nd</sup>, 2018, Houston, TX.

**Rodriguez, A. I.**, Thomas, M. L. A., Fitzpatrick, D., & Janky, K. L. Pediatric Vestibular Assessment: The Utility of Vestibular Evoked Myogenic Potentials. Nebraska Speech and Hearing Association, September 14<sup>th</sup> 2017, Lincoln, NE.

**Rodriguez, A. I.** "Overview of Vestibular and Balance Disorders & Management for the Student Physician." Texas Tech University Health Sciences Center, School of Medicine, October 26<sup>th</sup>, 2015

**Rodriguez, A. I.** "Benign paroxysmal positional vertigo assessment and treatment for the physical therapist." Department of Continuing Education, Texas Tech University Health Sciences Center, May 28, 2015, Lubbock, TX.

**Rodriguez, A. I.**, & Zupancic, S. Hearing and Balance Effects on Aging. Texas Tech University Health Sciences Center, School of Medicine, Garrison Institute on Aging Lecture Series. September 24, 2014, Lubbock, TX.

## ORAL PRESENTATIONS

Higgins, K. & **Rodriguez, A. I.**, Concussion Grand Rounds. Big Ten- Ivy League Traumatic Brain Injury Research Collaboration, July 15<sup>th</sup>, 2020, *virtual meeting*.

**Rodriguez, A. I.**, Marler, E., Fitzpatrick, D., & Janky, K. L. Use of Reflex Hammer VEMP in young adults and children. American Balance Society. February 27- 28, 2018, Scottsdale, AZ.

**Rodriguez, A. I.** & Hicks, C. B. Effect of vestibular loss on fatigue in children: Preliminary Findings. American Speech, Language, and Hearing Association, November 8 - 11, 2017, Los Angeles, CA.

**Rodriguez, A. I.**, Thomas, M. L. A., Fitzpatrick, D., & Janky, K. L. Effects of high sound exposure during air-conducted vestibular evoked myogenic potential testing on cochlear function in young adults and children. American Balance Society. February 28 - March 2, 2017, Scottsdale, AZ.

**Rodriguez, A. I.**, Zupancic, S., & Popp, R. L. Interprofessional education and audiology: Enhancing teamwork and collaborative learning of dizziness management. Texas Speech-Language-Hearing Association. March 10-12, 2015, Dallas, TX.

**Rodriguez, A. I.**, Popp, R., L., & Zupancic, S. "Interprofessional Educational Learning Event for Dizziness Management: A novel approach to clinical education." The 5<sup>th</sup> Collaborating Across Border Conference. September 29-October 2, 2015, Roanoke, VA.

**Rodriguez, A. I.**, & Zupancic, S. Interprofessional management for the dizzy patient. Texas Speech-Language-Hearing Association. March 19-21, 2015, San Antonio, TX.

**Rodriguez, A. I.**, Zupancic, S., Song, M., & Seifert, C. Interprofessional management of the dizzy patient: A retrospective analysis. Texas Society of Allied Health Professionals. September 25-27, 2014, MD Anderson Cancer Center, Houston, TX.

**Rodriguez, A. I.**, & Zupancic, S. Current trends in pediatric and adult vestibular assessment. Texas Speech-Language-Hearing Association Convention. February 27-March 1, 2014, Houston, TX.

## POSTER PRESENTATIONS

**Rodriguez, A. I.**, Chiao, J., Schmoker, S. Effects of sports-related head impact on otolith function in adolescents and young adults: Preliminary Findings. Association of Research in Otolaryngology Mid-Winter Meeting. January 28, 2020, San Jose, CA.

**Rodriguez, A. I.**, Thomas, M. L. A., Fitzpatrick, D., & Janky, K. L. Effects of high sound exposure during air-conducted vestibular evoked myogenic potential testing on cochlear function in young adults and children. Association of Research in Otolaryngology Mid-Winter Meeting. January 23, 2017, Baltimore, MD.

## ACADEMIC TEACHING EXPERIENCES

### University of Nebraska- Lincoln

Doctor of Audiology Graduate Courses, Assistant Professor: 2018-

- Vestibular Assessment I (Fall Course)- Primary Instructor
- Vestibular Assessment II (Spring Course)- Primary Instructor
- Advanced Clinical Practicum- Supervisor, Vestibular Rotation

### Texas Tech University Health Sciences Center

Interprofessional Educational Learning Event 2014-2018: Management of Vestibular and Balance Disorders

- Designed and implemented an interprofessional multi-campus hands-on learning seminar for medical, audiology, and physical therapy students and medical residents

Interprofessional Education Medical Student Simulation: 2015- 2016

- Created and provided vestibular and balance case-based simulation lectures for medical students and neurology residents

Doctor of Audiology Graduate Courses, Teaching Assistant and Laboratory Instructor: 2011- 2016

- Diagnostic Audiology Laboratory

- Vestibular Function and Assessment Laboratory
- Implantable Devices Laboratory

## RESEARCH MENTOR EXPERIENCES

### University of Nebraska- Lincoln, Capstone Chair

Baumgardner, Amelia

Au.D. Capstone: Relationship between Gaze Stabilization Test Performance and Vestibular Outcomes

Lee, J.

Au.D. Capstone (Completed May 2020): Vestibular Sensitivity and Motion Tolerance in Young Adults with an Athletic Background

Spencer, Gretchen

Au.D. Capstone: Vestibular Outcomes in Youth Student Athletes Post- Sport's Concussion

Vicente, Manuel

Au.D. Capstone: Fatigue and Mediating Factors in Adults with Vestibular Loss

Walters, Theodore

Au.D. Capstone: Otolith Sensitivity in Student Athletes with and without History of Concussion

Walczak, Emily

Au.D. Capstone: Characterizing the Effects of Chronic Alcohol and Illicit Drug Use on Vestibular Function

Waszak, Kaitlyn

Au.D. Capstone: Functional Effects of Sports-Related Concussions on the Auditory System

### Boys Town National Research Hospital, T35 Co-Mentor

Greenwalt, N. L.

NIH T35 Project: Optimal Bone Conduction Method for Vestibular Evoked Myogenic Potential (VEMP) testing in Children

Marler, E.

NIH T35 Project: Vestibular evoked myogenic potential (VEMP) test-retest reliability in children.

### Creighton University, Doctor of Occupational Therapy, Mentor

Hills, Hannah

Doctoral Capstone Experience: The evidence of vision therapy and role of occupational therapy in sports-concussion.

## HONORS & AWARDS

- University of Nebraska- Lincoln, Scholarly Enhancement Research Program, 2019 - 2021
- University of Nebraska- Lincoln, Research Development Fellows Program, 2018 - 2019
- American Speech, Language, and Hearing Association, Early Career Professionals, 2018
- Association for Research in Otolaryngology, Audiologist Research Travel Award, 2017
- Association for Research in Otolaryngology, Mentorship Program, 2017
- Texas Tech University Health Sciences Center, Dean's Award for Excellence in Research, 2016
- American Cochlear Implant Alliance Student Scholarship Research Award Recipient, 2015
- The American Speech, Language, and Hearing Association, Audiology/Hearing Science Research Travel Award Recipient, 2015
- The American Academy of Audiology, Academy Research Conference: National Institute on Deafness and other Communication Disorders. Vestibular Assessment & Treatment, Scholarship Winner, 2015
- Texas Tech University Health Sciences Center, Student Research Week Poster 1<sup>st</sup> Place Winner, 2014
- The University of Texas at Austin, Undergraduate Research Fellow, 2009 - 2010

## LEADERSHIP & SERVICE

### Departmental

- Doctor of Audiology Academic Advisor, 2019 –
- Doctor of Audiology Spiral Curriculum Development, 2019 –
- Audiology Graduate Faculty Committee Member, 2018 –
- Executive Graduate Governance Committee Member (2018 –) and Unit Chair (2019 –)
- UNL Special Education and Communication Disorders, Technology Committee Member, 2020 –
- Chair's Advisory Committee, Member, 2020–
- Oversee Vestibular and Balance Clinic Services for Barkley Speech and Hearing Clinic, 2018 –

### Professional

- Ad Hoc Reviewer, Neurology, American Journal of Audiology, Journal of American Academy of Audiology, Otology & Neurotology, Ear & Hearing, Clinical Neurophysiology, 2018 –
- Great Plains IDeA-CTR Pilot Program, Grant Reviewer, 2019 – 2020
- American Speech-Language-Hearing Association, Board of Ethics, 2019 –
- American Speech-Language-Hearing Association, Financial Planning Board, 2015 – 2018
- American Speech-Language-Hearing Association, Convention Program Committee, 2018
- Association for Research in Otolaryngology, Programming Committee- Clinical Vestibular Podium Co-Chair, 2017

## PROFESSIONAL MEMBERSHIPS

- American Academy of Neurology, Junior Fellow Member, 2017 –
- Association of Research in Otolaryngology, Member, 2016 –
- American Balance Society, Member, 2016 –
- American Speech-Language-Hearing Association, Member, 2014 –

## PROFESSIONAL CLINICAL EXPERIENCE

- UNL Athletic Medicine, Lincoln, NE, *Vestibular and Balance Clinical Consultant*, 2019 –
- UNL Barkley Memorial Center, Lincoln, NE, Dizziness and Balance Clinic–*Vestibular Audiologist, Clinical Supervisor*: August 2018 –
- Texas Tech University Health Sciences Center, Lubbock, TX, Department of Otolaryngology, Head and Neck Surgery– *Clinical Audiologist*: 2013 – 2016
- Lubbock Independent School District, Lubbock, TX, Regional Day School Program for the Deaf–*Educational Audiologist*: 2014 – 2016
- Mayo Clinic, Rochester, MN, Division of Audiology- Integrated Balance Team– *Summer Clinical Externship*: 2012

## LICENSURE/ CERTIFICATIONS

- State of Nebraska Audiology License, 2017–
- Certificate of Clinical Competence in Audiology- American Speech-Language-Hearing Association, 2014 –