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

University of Nebraska- Lincoln
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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,
Pediatric 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

Hughes, M., **Rodriguez, A. I.,** Hatch, J., & Zoucha, K. Hearing and Vestibular Loss Following Misuse of Opioids and Illicit Drugs: A Comprehensive Literature Review (*in press*, Audiology & Neurotology)

Rodriguez, A. I., Chiao, J., & Spencer, G. (2022). Vestibular-Evoked Myogenic Potential Outcomes Associated with Pediatric Sports-Related Concussion. *The Laryngoscope*,132(2):436-442. doi: 10.1002/lary.29803. Epub 2021 Aug 7.

Patterson, J. N., **Rodriguez, A. I.**, Gordon, K. R., Honaker, J. A., & Janky, K. L. (2021). Age Effects of Bone Conduction Vibration Vestibular-evoked Myogenic Potentials (VEMPs) Using B81 and Impulse Hammer Stimuli. *Ear and hearing*, 10.1097/AUD.0000000000001024. 42(5), 1328–1337.

Greenwalt, N. L., Patterson, J. N**., Rodriguez, A. I.,** Fitzpatrick, D., Gordon, K. R., & Janky, K. L. (2020). Bone Conduction Vibration Vestibular Evoked Myogenic Potential (VEMP) Testing: Reliability in Children, Adolescents, and Young Adults. *Ear and hearing*, *42*(2), 355–363.

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.

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.

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.

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*.*

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.

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.

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.*

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.

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.

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.

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.

Wang, J. C., Allen, S. J., **Rodriguez, A. I.**, Zahner, C., Dissanaike, 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.

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.

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 in Preparation

Rodriguez, A. I., Hughes, M., & Zoucha, K. The Effects of Substance Misuse on Auditory and Vestibular Function: A Review (under review, Ear & Hearing).

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

Rodriguez, A. I., Bond, K., Vicente, M., Higgins, K. Subacute Visual-Vestibular Clinical Findings in Collegiate Athletes with History of Concussion in Childhood. (in preparation)

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, 2021-2024.
Role: Co-Primary Investigator

Rodriguez, A. I., Zupancic, S., 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: 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

(In Revision)

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

INVITED ORAL PRESENTATIONS

Rodriguez, A. I. Pediatric Vestibular Assessment and Disorders. American Academy of Audiology SAA Conference, *to be presented*, March 2022, St. Louis, MO.

Rodriguez, A. I. & Hills, H. Concussion Visual- Vestibular Assessment. Nebraska Speech and Hearing Association, October 10, 2021, Kearney, NE.

Rodriguez, A. I. & Vicente, M. Fatigue and Mediating Factors in Vestibular Loss. Boys Town National Research Hospital, SMART Lunch (Vestibular) Series, 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 30th, 2020.

Rodriguez, A. I., Visual and Vestibular Measure of Dysfunction- Panel. Big Ten- Ivy League Traumatic Brain Injury Research Collaboration, July 15th, 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 14th, 2020, Omaha, NE.

Rodriguez, A. I. Effectiveness of the multi-disciplinary approach to the Dizzy Patient. American Academy of Audiology, April 4th, 2020, New Orleans, LA- cancelled meeting.

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

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

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

Rodriguez, A. I. A "Balanced" Approach to Pediatric Vestibular Diagnosis, Management, and Prognosis. Texas Speech- Language-Hearing Association Convention, March 2nd, 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 14th, 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 26th, 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

Rodriguez, A. I., Feasibility of delivering of a mobile visual-vestibular intervention for concussion. Great Plains IDeA-CTR Superstar Competition, October 6, 2021, *virtual meeting*.

Higgins, K. & **Rodriguez, A. I**., Concussion Grand Rounds. Big Ten- Ivy League Traumatic Brain Injury Research Collaboration, July 15th, 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 5th Collaborating Across Boarder 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., Hughes, M., & Zoucha, K. Feasibility of Assessing the Effects of Substance Use on Auditory and Vestibular Function: Preliminary Findings. Symposium on Substance Use, November 10, 2021, *virtual meeting*.

Sanchez, D., Vicente, M., **Rodriguez, A. I.,** Hughes, M., Assessing Healthcare Providers' Knowledge of Ototoxicity Effects of Illicit Drugs and Prescription Opioids. Symposium on Substance Use, November 10, 2021, *virtual meeting*.

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 Seminar 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 (Completed, 2021): Relationship between Gaze Stabilization Test Performance and Vestibular Outcomes

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

Spencer, Gretchen
Au.D. Capstone (Completed, 2021): Vestibular Outcomes in Youth Sport's Concussion

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

Walters, Theodore
Au.D. Capstone (Completed, 2021): 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 in Children

Bond, Kylie
Au.D. Capstone: Chronic Visual-Vestibular Signs and Symptoms in Athletes with History of Sports-Related Concussions

Marino, Josephine
Au.D. Capstone: Development of a Fatigue Questionnaire for Patients with Dizziness

Weyers, Nicole
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 (Completed, 2021): The Evidence of Vision Therapy and Role of Occupational Therapy in Youth Concussion.

HONORS & AWARDS

- Great Plains IDeA-CTR Superstar Grant Finalist, 2021
- 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 1st 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 – 2021
- Audiology Graduate Faculty Committee Member, 2018 –
- Executive Graduate Governance Committee Member (2018 –) and Audiology Chair (2019 – 2021)
- Chair's Advisory Committee, Member, 2021 – 2022

University
- UNL Intercollegiate Athletics Committee, 2021 – 2023
- UNL Institutional Review Board Committee, Alternate Member, 2021– 2023

Professional
- Ad Hoc Reviewer, Neurology, American Journal of Audiology, Journal of American Academy of Audiology, Otology & Neurotology, Ear & Hearing, Clinical Neurophysiology, & Otolaryngology Head & Neck Surgery 2018 –
- Great Plains IDeA-CTR Pilot Program, Grant Reviewer, 2019 – 2020
- American Speech-Language-Hearing Association, Board of Ethics, and Vice Chair 2019 – 2024
- 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, 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 Barkley Memorial *Speech, Language, and Hearing Clinic*, Lincoln, NE –*Vestibular and Balance Service Coordinator, Vestibular Audiologist, Clinical Supervisor* August 2018 –
- UNL Department of Athletic Medicine, Lincoln, NE, *Vestibular and Balance Clinical Consultant*, 2019 –
- 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–*Clinical Externship:* 2012

LICENSURE/ CERTIFICATIONS

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