

# SEMINAR SERIES

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The Center for Research in Human Movement Variability (MOVCENTR)



## FROM VESTIBULAR PHYSIOLOGY TO FUNCTIONALITY: EFFECTS OF SPORT'S CONCUSSION AND HEAD IMPACT ON THE VESTIBULAR SYSTEM

Featuring Dr. Amanda Rodriguez  
University of Nebraska-Lincoln

February 14, 2020 | 12:00 - 1:15 pm | BRB 167  
Parking Available in Lot T

### PRESENTATION ABSTRACT

It is common for youth and young adults to experience vestibular- visual symptoms following sports- related head trauma. Those who present with this symptomology experience delayed recovery, are later to return-to-play, and are susceptible to subsequent concussions. For some time, it has been suggested that vestibular-visual symptoms were temporary; however, it is hypothesized that there is permanent underlying inner ear damage. Our preliminary findings show similar trends and will be presented. In this talk, vestibular physiology testing techniques will also be discussed, including how we are able to topologically stratify inner ear function and why this is functionally meaningful for rehabilitation. Inner ear dysfunction can also lead to degradation in physical, cognitive, and psychosocial domains and will be discussed in relation to a youth population and implications throughout adulthood.

### ABOUT DR. RODRIGUEZ

Amanda Rodriguez is an Assistant Professor and the Director of the Concussion and Vestibular Evaluation Laboratory at the University of Nebraska-Lincoln (UNL). She is also a Resident Faculty member in the Center of Brain, Biology and Behavior. She received her Au.D. and Ph.D. in Audiology and Vestibular Function-Assessment from Texas Tech University Health Sciences Center. Following, she completed a T32 post-doc fellowship at Boys Town National Research Hospital in the Vestibular and Balance Laboratory. Her research interests include examining the effects of sport's concussion on the vestibular system and how vestibular loss negatively affects long-term behavior and lifestyle. In addition, Dr. Rodriguez is a practicing vestibular audiologist and provides diagnostic vestibular and balance services for the Barkley Memorial Dizziness and Balance Clinic and Nebraska Athletic Department. She also teaches graduate courses in Vestibular Assessment for students in the UNL Doctor of Audiology program.

more info at [cobre.unomaha.edu](http://cobre.unomaha.edu)

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