

**The Georgetown-Howard Universities Center  
for Clinical & Translational Science  
KL2 Visiting Scholars Seminar Series:**



# **"Underlying Mechanisms of Handedness and Their Implications for Parkinson's Disease"**

**Dr. Brooke Dexheimer**

**Date: Thursday, March 26, 2026**

**Presentation: 12 Noon - 1 PM ET**

**Registration Link:**

**[https://georgetown.zoom.us/webinar/register/WN\\_c3E1jpjpRKy0LGPXkJDTvg](https://georgetown.zoom.us/webinar/register/WN_c3E1jpjpRKy0LGPXkJDTvg)**



## **KEYNOTE SPEAKER**

**Brooke Dexheimer, PhD, OTD, OTR/L**

Dr. Dexheimer is an Assistant Professor and Occupational Therapist in the Virginia Commonwealth University (VCU) Department of Occupational Therapy. She directs the VCU NERDD Lab (Novel Environments for Reducing Disability & Dysfunction), investigating basic mechanisms of motor control and their translational implications for motor symptomatology in Parkinson's Disease.

## **ABSTRACT**

Handedness is often attributed to a global motor control superiority for the dominant hand. However, evidence now suggests that the dominant and non-dominant hands are each specialized for different aspects of motor control, based on hemispheric specializations. This talk will discuss the evidence supporting this hypothesis and our work investigating lateralized mechanisms of motor control using non-invasive neuromodulation. Additionally, this talk will discuss our recent work translating these findings to characterize lateralized early-stage motor symptoms in Parkinson's Disease.

Sponsored by the Georgetown-Howard Universities Center for Clinical and Translational Science (GHUCCTS) and its partner institutions (Georgetown and Howard Universities, MedStar Health Research Institute, the Washington DC VAMC, and Oak Ridge National Lab) to bring together our diverse clinical and research communities to share research that spans disciplines and stages of translation to improve individual and community health.

**Questions:**

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