

Faculty Name: Nikki Kardouni

Capstone Group: Exploring the impact of fine motor function as a determinant of quality of life for individuals with a Parkinson’s disease diagnosis.

Date:

Department Scholarly Agenda Statement:

Our departmental faculty scholarship agenda seeks to build quality evidence that spans the depth and breadth of the occupational therapy profession. The OTD program faculty, in collaboration with our students, strive to advance the profession through scholarly engagement, enrichment, and empowerment. Collectively, our scholarly work will create a well-rounded, creative, and collaborative environment that uses a multidisciplinary approach to incorporate the basic and applied sciences, including rehabilitation science, health and wellness, social sciences, and engineering. Pragmatically, our research is grounded in theory (e.g. PEOP), molded by the grant writing process (e.g. NIH), and executed in clinical and community-engaged settings. Simultaneously, our faculty scholarship agenda coincides with the evidence-based practice and research course series, allowing us to build a strong peer-mentor relationship with our OTD students and foster student-led capstone scholarship. The ultimate goals of our work are to create evidence-driven occupational therapists and scientists who will contribute to advancing human health and wellness through participation in everyday life activities.

| Individual Scholarly Approach (Mission, Threads, Approach to Student Collaboration) |
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| <p>Mission: The purpose of this study is to develop, distribute, and analyze a needs assessment survey to gather information regarding fine motor deficits for individuals with Parkinson’s disease to understand how it affects the quality of life and independence for patients with mild to moderate stages of Parkinson’s disease (PD). The objectives of this study include (1) identification of fine motor deficits due to Parkinson’s disease and (2) determine if quality of life has been impacted due to fine motor deficits interfering with daily tasks. The goal of this study is to survey individuals with Parkinson’s disease to identify changes to quality of life due to fine motor deficits caused by their diagnosis to be able to develop an intervention using the Leap Motion Controller.</p> <p>Threads: older adults, quality of life, fine motor control, fine motor interventions, assistive technology</p> <p>Approach to Student Collaboration: The student has developed a needs assessment and has disseminated this assessment through social media, email, and word of mouth. Through collaboration with their faculty mentor, the next step is to define the problem areas and evaluate what evidence exists to address these problem areas. The student will seek mentorship from faculty and faculty mentor to then develop an intervention treatment aimed at addressing fine motor coordination with the use of virtual reality hardware/software.</p> |

The following is a list of ongoing or future project titles or topics and their respective estimated timelines.

| Scholarly Agenda | |
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| Project Title/Topic | Timeline <input type="checkbox"/> New/Future <input type="checkbox"/> Ongoing <input type="checkbox"/> In Dissemination |
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OCCUPATIONAL THERAPY

Faculty Scholarly Agenda

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| A Randomized Study to Enhance Occupational Therapy Education for Communication with Diverse and Underserved Communities | In Dissemination |
| Exploring the impact of fine motor function as a determinant of quality of life for individuals with a Parkinson’s disease diagnosis | Ongoing |
| Hands on comprehensive skills practical prior to level II fieldwork improves student fieldwork experience evidenced by increased FWPE scores | New/future |
| Development of occupational therapy cultural awareness tool (OTCAT) | Ongoing |