

Thomas Jefferson University  
College of Rehabilitation Sciences  
Department of Occupational Therapy

FACULTY SCHOLARSHIP AGENDA  
2019-2022

**INTRODUCTION:** The Scholarship Agenda includes research and scholarship activities across all faculty in the areas of teaching, research, and service. Faculty are engaged in academically relevant work that reflects the *Department and University Mission and the Jefferson Enterprise Mission and Vision*. In addition, faculty research and scholarship activities meet the needs of the program and department and reflect program *curricular threads*. MSOT Research Presentations, MSOT and OTD Courses, Doctoral Capstone experiences and projects reflect the scholarship of faculty mentors.

**MISSION & VISION**

**Department Mission**

*Reimagining Health through Occupation*

The Jefferson Department of Occupational Therapy promotes the health and well-being of people through their participation in occupation by developing practitioners who can dynamically respond to changing demands in healthcare, community and environments; and engage in service, practice, advocacy, leadership, scholarship and research.

**University Mission**

We are a university with preeminence in transdisciplinary, experiential professional education, research and discovery, delivering exceptional value for 21st century students with excellence in architecture, business, design, engineering, fashion & textiles, health, science and social science – infused with the liberal arts.

**Enterprise Mission**

We Improve Lives

**Enterprise Vision**

Reimagining health, education and discovery to create unparalleled value.

OTD PROGRAM (Center City) CURRICULAR THREADS				
Foundational Science and Knowledge Supporting Occupation	Occupational Therapy Process	Environment and Context	Professionalism	Evidence-based Practice

MSOT PROGRAM (Center City) CURRICULAR THREADS				
Foundational Science and Knowledge Supporting Occupation	Occupational Therapy Process	Environment and Context	Professionalism	Evidence-based Practice

MSOT PROGRAM (East Falls) CURRICULAR THREADS		
Participation	Evidence and Professional Reasoning	Collaboration and Innovation
Professional Identity		

**KEY TO ABBREVIATIONS:**

- Volunteer opportunity (Volunteer)
- Graduate Assistantship (GA)
- Student Occupational Therapy Association (SOTA)
- Embedded in East Falls or Center City Course (Course)
- Capstone Areas of Study (Capstone)
- Occupational Therapy Doctorate Program (OTD)
- Masters in Occupational Therapy Program (MSOT)
- Post Professional Occupational Therapy Doctorate Program (PPOTD)
- Fieldwork Area of Study (FW)

**Centers**

- Autism Center of Excellence
- Center for Hand and Upper Limb Rehabilitation
- Center for Outcomes and Measurement

**Jefferson Elder Care**

## COLLABORATIVE DESIGN & TECHNOLOGY

### **The Use of 3D Printing in Healthcare**

*Mollo, Avery*

*Course*

### **Inclusive Playground Design**

*Mollo, Avery*

*Course*

### **Inclusive Toys and Games Design**

*Mollo, Avery*

*Course*

### **Designing with the Caregiver in Mind**

*Mollo, Avery*

*OTD, Capstone*

### **Healthcare and Industrial Design**

*Mollo, Avery*

*Course*

### **Workplace Ergonomics**

*Mollo, Avery*

*Course*

### **Pharmaceutical Packaging for the Elderly**

*Mollo, Avery, Chabot*

*OTD, Capstone*

### **Student Collaborations with Interior Design – the Accessible Redesign Challenge**

*Harrison*

*Course, MSOT*

### **Intersectional Accessibility**

*Harrison*

*Course, MSOT*

### **Student Collaborations with Landscape Architecture, Interior Design, Architecture, and Graphic Design**

*Chabot*

*Volunteer, GA, SOTA, MSOT, OTD*

### **The Impact of Smart Technology on Living in Place**

*Chabot*

*Volunteer, GA, SOTA*

### **Occupational Therapy/Industrial Design Assistive Technology Project**

*Chabot, Avery*

*Course, MSOT*

### **Telerehab in Stroke**

Funded By: NIH

*Grampurohit*

### **Mixed Reality to Incorporate Object Use in Gaming**

*Grampurohit*

*Volunteer, GA, SOTA*

### **Virtual Reality Based Rehabilitation Using Game-Based Systems for Improving Function in Conditions such as Stroke, Parkinson's Disease, Dementia, and Chronic Pain**

Funded By: NIH

*Grampurohit*

### **Eye Gaze in Children with Developmental Disabilities**

*Grampurohit*

*Volunteer, GA, SOTA*

### **Telerehabilitation Intervention for Upper Limb Training for Individuals with Parkinson's Disease**

*Grampurohit*

## MEANINGFUL LIVING ACROSS THE LIFESPAN

### **Pivotal Trial of a Neuronetwork for Upper Limb Function in Persons with Spinal Cord Injury**

*Mulcahey*

*Outcomes and Measurement Center of Excellence*

### **Neuroimaging Biomarkers for Spinal Cord Injury**

*Mulcahey*

*Outcomes and Measurement Center of Excellence,*

*Volunteer, GA, SOTA*

### **Natural History of Neuromuscular Scoliosis and Impact on Activity in Youth Spinal Cord Injury**

*Mulcahey*

*Outcomes and Measurement Center of Excellence*

### **Priorities, Needs and Acceptable Risks of Neurotechnology for the Upper Limb**

Funded By: Deans Translational Research Award

*Mulcahey*

*Volunteer, GA, SOTA, OTD, Capstone*

### **Interventions for the Neurological Impaired Upper Limb**

Funded By: NIDILRR Spinal Cord Injury Model System

*Mulcahey*

*Volunteer, GA, SOTA, OTD, Capstone*

### **Understanding the Experiences with Activity Based interventions in Individuals with Spinal Cord Injury**

Funded By: NIDILRR Spinal Cord Injury Model System

*Grampurohit*

*GA*

### **Feasibility Study of Transcranial Magnetic Stimulation and Activity Based Therapy in Adults with Spinal Cord Injury**

*Grampurohit*

**Kinesiotaping for Improving Function in People with Stroke in Collaboration with Iran Research Team**

*Grampurohit*

**Instrument Summaries and Tearsheets of Outcome Measures through Rehab Measures Task Force of the American Congress of Rehabilitation Medicine**

*Grampurohit*

*Outcomes and Measurement Center of Excellence*

**Enhancing Inpatient Rehabilitation Outcome Measures Through Integration with Electronic Health Records**

*Grampurohit*

*Outcomes and Measurement Center of Excellence*

**To Study the Reliability and Validity of the Tool: Serial Assessment of Function in Dementia**

In Collaboration with American Association for Developmental Medicine and Dentistry

*Grampurohit, Herge, Keller*

GA

**Understanding the Priorities, Needs, Facilitators and Barriers to Adoption of Neurotechnologies by Patients, Caregivers, and Healthcare Providers**

Funded By: Dean's Transformational Science Award

*Mulcahey, Grampurohit, Fedorczyk, Serruya*

*Outcomes and Measurement Center of Excellence, Volunteer, GA, SOTA, OTD, Capstone*

**Serial Assessment of Function in Dementia**

Funded By: Foundation WITH

*Grampurohit, Herge, Keller*

*Volunteer, GA, SOTA*

**Hand and Arm Test of Timed Task Completion for Person with Neurological Condition**

*Grampurohit, Gerhardt, Mulcahey*

*Outcomes and Measurement Center of Excellence*

*Volunteer, GA, SOTA*

**Activity Based Neurorehabilitation for Individuals with Spinal Cord Injury**

Funded By: NIDLIRR Spinal Cord Injury Model System

*Grampurohit, Marino, Mulcahey, Bell*

*Volunteer, GA, SOTA, OTD, Capstone*

**Linking Outcome Measures Across the Continuum of Care and Age**

*Grampurohit, Mulcahey*

*Outcomes and Measurement Center of Excellence*

**Partnership for Developmentally Supportive Care in India**

*Carroll*

**Innovative OT Programming to Support Health and Wellness for All Populations in Morocco**

*Chabot*

*Volunteer, Course, MSOT, OTD*

**Collaborations with the Local Village Network to Support Productive Aging in the Community**

*Chabot*

*Volunteer, GA, SOTA, Course*

**Project IMPACT for Children with Social and Communication Challenges**

*Muhlenhaupt*

**EuREKA Project Coaching in Context for College Success Program**

*Potvin*

**After School Program for Underserved Children with Autism**

*Thomas, Schaaf, Mitchell*

**Inclusive Community-Focused After School Program for Underserved Children**

*Mitchell, Gohean, Zapletal*

GA

**Normative Values of Spine Motion and Flexibility in Typically Developing Girls**

Funded By: Pediatric Spine Foundation

*Mulcahey*

*Outcomes and Measurement Center of Excellence, Volunteer, GA, SOTA*

**Development of the Spinal Cord Injury Functional Index Performance Measure**

Funded By: Craig H. Neislen Foundation

*Mulcahey*

*Outcomes and Measurement Center of Excellence, Volunteer, GA, SOTA, OTD, Capstone*

**Development and Validation of the Coaching Intervention Fidelity Measure**

Funded By: Craig H. Neislen Foundation

*Mulcahey*

*Outcomes and Measurement Center of Excellence, Volunteer, GA, SOTA, OTD, Capstone*

**The Pediatric Measure of Participation: A Replenishment and Staging Study**

Funded By: Shriner's Hospital for Children

*Mulcahey*

*Outcomes and Measurement Center of Excellence*

**Development of a Spinal Cord Injury Module for the PedsQL**

Funded By: Craig H. Neislen Foundation

*Mulcahey*

*Outcomes and Measurement Center of Excellence*

**Manual Development for Task Specific Training for Inpatient Rehabilitation**

*Grampurohit, Bozac, Mulcahey*

*Outcomes and Measurement Center of Excellence, Volunteer, GA, SOTA, PPOTD*

**Mapping Hand Functions Assessed within Upper Extremity Outcome Measures using ICF**

*Grampurohit, Morina, Charles*

*Outcomes and Measurement Center of Excellence*

**Surface Electromyography for Muscle Activity Profile in Individuals with Spinal Cord Injury**

*Grampurohit, Graves, Mulcahey*

*Outcomes and Measurement Center of Excellence*

**Development of a Performance-Based Measure for Upper Limb Function for Individuals with Multiple Sclerosis**

*Mulcahey, Grampurohit, Sinko*

*Outcomes and Measurement Center of Excellence, GA*

**Mad Studies and Critical Mental Health Practice**

*Harrison*

*GA (2022)*

**Chronic Pain Among LGBT Populations**

*Harrison*

*GA (2022)*

**Use of Graphic Novels for Health Literacy in Morocco**

Funded By: EF Nexus Grant

*Chabot*

*Volunteer, GA, SOTA, Course*

**Skills2Care: Intellectual Disabilities**

*Herge*

*Jefferson Eldercare Center of Excellence, Course, OTD, Capstone*

**MULTIDIMENSIONAL ENVIRONMENTS & OCCUPATIONAL ENGAGEMENT**

**Incorporating Advocacy into Interprofessional Education: Jefferson Health Mentors Program**

*Earland*

*Volunteer, GA, SOTA, Course, MSOT, OTD*

**Refugee Health: Understanding Environmental Supports and Barriers to Participation and Meaningful Occupation Through Participatory Action Research**

*Kern*

*Volunteer, GA, SOTA, MSOT, OTD, FW*

**Outcomes of Participatory Occupational Justice Framework in Refugee Resettlement and Employment**

*Kern*

*Volunteer, GA, SOTA, MSOT, OTD, FW*

**Environmental Mapping Using Geographic Information Systems in Refugee Communities**

*Kern*

*Volunteer, GA, SOTA, OTD, Capstone*

**City of Philadelphia Parks and Recreation**

*Mollo, Avery*

*Volunteer, GA, SOTA, Course, OTD, Capstone, MSOT, PPDOT, FW*

**Designing Active Learning Classroom for a Neurodiverse Student Body**

Funded By: Industry Sponsored

*Potivin*

*GA*

**INNOVATIVE TEACHING & LEARNING**

**PrEMO Partnerships: Promoting Environments that Measure Outcomes**

*Carroll*

*FW*

**Interprofessional and Intra-professional Service Learning in Morocco**

*Chabot*

*GA*

**FWI Experience in Morocco**

*Chabot*

*FW*

**Use of a Sensory Based Relaxation Cart to Assist in Stress Reduction of University Students**

Funded By: EF Nexus Grant

*Chabot, Zane*

*Volunteer, GA, SOTA, Course*

**Occupational Therapists with Disabilities: A Critical Qualitative Study and Student Research Immersion**

*Harrison*

*GA (2022)*

**Infusing Disability Studies into Occupational Therapy**

*Harrison*

*Course, MSOT*

**OTD Capstone: Transforming Practice While Impacting the Community**

*DeAngelis, Navarro-Walker*

*Course, OTD, Capstone*

**Strategies to Enhance a Diverse and Inclusive OT Workforce**

*Earland*

*Volunteer, GA, SOTA, OTD, Capstone, MSOT, PPOTD, FW*

**Building Core Competencies to Ensure Collaborative, Team-Based Care in Future Practitioners**

*Earland*

*Volunteer, GA, SOTA, Course, MSOT, PPOTD, FW*

**PrEMO Site Project at AVS/Merakey and RHD**

*Herge*

*Course, FW, MSOT, OTD*

**Involving Students in Knowledge Translation and Program Development Activities that Promote Quality Care**

*Herge, Carroll*

*Volunteer, SOTA*

**Partnerships to Integrate Best Practice into Fieldwork Sites Using Approaches Targeting Client, Program and Organization Levels**

*Herge, Kern, Schaaf, Carroll*

**Fieldwork Experience Encompassing Occupational Justice Practice Framework in Refugee Resettlement**

*Kern*  
MSOT, FW

**Innovative and Meaningful Fieldwork Experiences**

*Navarro-Walker, Leonard*  
Course, OTD, Capstone, MSOT, FW

**Changing Practice: Impact of FWII Students on FW Educator Practice**

*Navarro-Walker, Leonard*  
Course, OTD, Capstone, MSOT, FW

**OT Students Perception of the Usefulness of Different Class Preparatory Activities**

*Potvin*  
GA

**Note-Taking Abilities and Preferences in OT Students**

Funded By: NF Nexus Learning Grant  
*Potvin, Chabot, Zane*  
GA

**OT and OTA Students' Perception of Fieldwork Learning Activities that Promotes Clinical Reasoning Skills Development**

Funded By: EF Faculty Research Grant  
*Potvin, Thomas, Coviello, Zane*  
GA

**Increasing Student Success in Anatomy and Kinesiology**

*Sinko*  
Course, OTD, Capstone, MSOT, PPOTD

**Creating Professional Identity and Leadership through Reflection and Mentorship**

*Sinko, Wallock, Zapletal*  
GA, OTD, Capstone, MSOT

**Facilitating Student Clinical Confidence and Competence through Service Learning**

*Sinko, Wallock*  
GA, OTD, Capstone, MSOT

**Alzheimer's Virtual Interprofessional Training (AVIT)**

Funding By: M.H. Bruder Foundation  
*Toth-Cohen, Earland*

**Using Best Practice Simulation Instructional Methods to Advance Training and Education of OT Students: Incorporating Standardized Assessments as part of the Simulation Encounter**

*Zapletal*  
GA, Course

**Developing Effective Teaching Teams for Learner-Centered Instruction**

*Zapletal, Sinko*  
GA, Course, Capstone, MSOT

**Developing Future Educators**

*Zapletal, Sinko*  
GA, Course, Capstone, MSOT

**Using Best Practice Simulation Instructional Methods to Advance Training and Education of OT Students: Intentional use of SP Experiences to Address Cultural Humility**

*Zapletal, Earland*  
GA, Course

**Using Best Practice Simulation Instructional Methods to Advance Training and Education of OT Students: Implementing Electronic Health**

**Records (EHRs) in OT Curriculum**

*Zapletal, Earland, Martinez, Toth-Cohen*  
GA, Course

**Redesigning the Classroom into Hybrid Learning Spaces**

*Zapletal, Sinko*  
GA, Course

**Faculty Development: Sexual and Gender Minority Education and Training**

Funded By: Dean's Grant 2019-2020  
*Zapletal, Earland, Toth-Cohen*  
GA

**Professional Development: Sexual and Gender Minority Education and Training Program [SGMET]**

Funded By: Jefferson Enterprise 2020-23  
*Zapletal, K.A Bell*  
GA, College of Population Health Fellow

**Using Best Practice Simulation Instructional Methods to Advance Training and Education of OT Students**

*Zapletal, Toth-Cohen*  
GA, Course

**Redesigning the Classroom into Hybrid Learning Spaces**

*Zapletal, Sinko*  
GA, Course

**INCLUSIVE COMMUNITY PRACTICE**

**Life Skills Development: Young Adults Aging Out of Foster Care**

Funded By: PECO/Exelon Grant & Project HOME Collaborative  
*DeAngelis*  
GA, SOTA, OTD, Capstone

### Language Equity in Rehabilitation Services

*Harrison*

GA (2022)

### Bisexual Health

*Harrison*

GA (2022)

### Clinical OT Practice: Adults with a History of Chronic Homelessness and Serious Mental Illness

*DeAngelis*

GA, OTD, Capstone

### Meeting the Needs of the LGBTQ Young Adult Population: Individuals Aging Out of Foster Care

*DeAngelis*

GA, OTD, Capstone

### Preparing Future Practitioners to Address Complex Health and Social Needs in Communities

*Earland*

Volunteer, GA, SOTA, Course, MSOT

### Integrating Occupational Therapy Services

*Earland*

GA, OTD, Capstone

### Understanding the Experiences of Individuals with Dementia and their Caregivers Participating in a Community-Based Arts Program In collaboration with: ARTZ Philly

*Grampurohit, Piersol, Navarro-Walker*

Volunteer, GA, SOTA, OTD, Capstone

### Refugee Work, Skill Development, and Assimilation into US Culture and Society

*Kern*

GA, OTD, Capstone

### Scoping Review: Non-Language Based Assessments of Activity and Participation for Non-English Speaking Populations

*Kern*

GA, Volunteer, OTD, Capstone

### Trauma Informed Care in Occupational Therapy

*Navarro-Walker*

Volunteer, GA, SOTA, Course, OTD, Capstone, MSOT, PPOTD

### Clinical OT Practice: Adults with a History of Chronic Homelessness and Serious Mental Illness

*Sinko, DeAngelis*

GA, OTD, Capstone

### Promoting Emotional, Health and Media Literacy in Underrepresented Urban Youth

*Sinko, Wallock, Mitchell*

GA, OTD, Capstone, MSOT

### PROMOTING HEALTH & WELLNESS

#### Coaching Outcomes in Community Dwelling Adults with Chronic Conditions

*Mulcahey*

Outcomes and Measurement Center of Excellence, Volunteer, GA, SOTA, OTD, Capstone

#### Feasibility of Coaching Caregiver of Youth with Spinal Cord Injury

Funded By: Craig H. Neilsen Foundation

*Mulcahey*

Outcomes and Measurement Center of Excellence, Volunteer, GA, SOTA

#### Coaching Families of Children with Autism to Enhance Recreational Participation

*Potvin*

Autism Center of Excellence, Capstone

#### GOALS2 Program

Funded By: Collaboration between OT program and EF Dean of Student office

*Potvin*

GA, OTD, Capstone, FW

#### Early Intervention Best Practices for Infants and Toddlers and Their Families

Funded By: Philadelphia County Infant and Toddler Early Intervention

*Muhlenhaupt*

Volunteer, GA, SOTA

### AUTISM

#### Occupational Therapy Using Ayres Sensory Integration in Autism: A Comparative Effectiveness Study

Funded By: NIH RO1 Grant

*Schaaf*

Autism Center of Excellence, Volunteer, SOTA

#### Sensory Functions in Autism: A Program Project Grant

Funded By: Nancy Lurie Marks Foundation

*Schaaf*

Autism Center of Excellence, Volunteer, SOTA

#### Validation of the Evaluation of Ayres Sensory Integration (EASI) for Autism

Funded By: Eagles Autism Challenge

*Schaaf*

Autism Center of Excellence, Volunteer, SOTA

#### Autism Works: Projects to Promote Independent Living and Foundational Employment Skills in Autism

*Schaaf, Carroll*

Autism Center of Excellence

#### Autism Speaker Series, Groothie Pop-Up Events

*Carroll, Schaaf*

Autism Center of Excellence, Volunteer, SOTA, GA

#### Autism at Work: Discovery Week at SEI

*Carroll*

Autism Center of Excellence, Volunteer

#### Program Development for Children and Transition Age Youth with Autism

*Carroll*

Autism Center of Excellence, Course, OTD, Capstone, PPOTD