

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 reflect program curricula and needs of the department.

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.

The Faculty Research and Scholarship activities focus on the following domains:

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| 1. Collaborative Design & Technology | 5. Inclusive Community Practice |
| 2. Meaningful Living across the Lifespan | 6. Promoting Health and Wellness |
| 3. Multidimensional Environments & Occupational Engagement | 7. Autism |
| 4. Innovative Teaching and Learning | |

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 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, Chabot

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: NIDILRR 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

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. Neilsen 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

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, PPOTD, FW

Designing Active Learning Classroom for a Neurodiverse Student Body

Funded By: Industry Sponsored

Potivin, Chabot

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

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**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***Redesigning the Classroom into Hybrid Learning Spaces***Zapletal, Sinko**GA, Course***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***Faculty Development: Sexual and Gender Minority Education and Training***Funded By: Dean's Grant 2019-2020**Zapletal, Earland, Toth-Cohen**GA***Using Best Practice Simulation Instructional Methods to Advance Training and Education of OT Students***Zapletal, Toth-Cohen**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*

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
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. Neislen 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