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:

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

**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

**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

**Designing Active Learning Classroom for a Neurodiverse Student Body**
Funded By: Industry Sponsored
**Potivin, Chabot**
GA

**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

**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: Implementing Electronic Health Records (EHRs) in OT Curriculum
Zapletal, Earland, Martinez, Toth-Cohen
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
Zapletal, Toth-Cohen
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

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

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