This is a comprehensive list of active and ongoing faculty research and scholarship projects occurring on East Falls and Center City Campuses in the Department of Occupational Therapy. Opportunities for student participation is subject to change and can vary based on campus location and timing of experiences in current curricula offerings.

**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
<table>
<thead>
<tr>
<th>Title</th>
<th>Funded By</th>
<th>Authors</th>
<th>Roles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural History of Neuromuscular Scoliosis and Impact on Activity in Youth Spinal Cord Injury</td>
<td>Deans Translational Research Award</td>
<td>Mulcahey</td>
<td>Volunteer, GA, SOTA, OTD, Capstone</td>
</tr>
<tr>
<td>Priorities, Needs and Acceptable Risks of Neurotechnology for the Upper Limb</td>
<td>NIDILRR Spinal Cord Injury Model System</td>
<td>Mulcahey</td>
<td>Volunteer, GA, SOTA, OTD, Capstone</td>
</tr>
<tr>
<td>Interventions for the Neurological Impaired Upper Limb</td>
<td>NIDILRR Spinal Cord Injury Model System</td>
<td>Mulcahey</td>
<td>Volunteer, GA, SOTA, OTD, Capstone</td>
</tr>
<tr>
<td>Understanding the Experiences with Activity Based interventions in Individuals with Spinal Cord Injury</td>
<td>NIDILRR Spinal Cord Injury Model System</td>
<td>Grampurohit</td>
<td>GA</td>
</tr>
<tr>
<td>Feasibility Study of Transcranial Magnetic Stimulation and Activity Based Therapy in Adults with Spinal Cord Injury</td>
<td>Foundation WITH</td>
<td>Grampurohit</td>
<td>GA</td>
</tr>
<tr>
<td>Kinesiotaping for Improving Function in People with Stroke in Collaboration with Iran Research Team</td>
<td>Foundation WITH</td>
<td>Grampurohit</td>
<td>GA</td>
</tr>
<tr>
<td>Instrument Summaries and Tearsheets of Outcome Measures through Rehab Measures Task Force of the American Congress of Rehabilitation Medicine</td>
<td>Foundation WITH</td>
<td>Grampurohit</td>
<td>GA</td>
</tr>
<tr>
<td>Enhancing Inpatient Rehabilitation Outcome Measures Through Integration with Electronic Health Records</td>
<td>Deans Translational Research Award</td>
<td>Grampurohit</td>
<td>Outcomes and Measurement Center of Excellence</td>
</tr>
<tr>
<td>To Study the Reliability and Validity of the Tool: Serial Assessment of Function in Dementia</td>
<td>Deans Translational Research Award</td>
<td>Grampurohit, Keller</td>
<td>GA</td>
</tr>
<tr>
<td>Understanding the Priorities, Needs, Facilitators and Barriers to Adoption of Neurotechnologies by Patients, Caregivers, and Healthcare Providers</td>
<td>Deans Translational Research Award</td>
<td>Mulcahey, Grampurohit, Fedorczyk, Serruya</td>
<td>Volunteer, GA, SOTA, OTD, Capstone</td>
</tr>
<tr>
<td>Serial Assessment of Function in Dementia</td>
<td>Foundation WITH</td>
<td>Grampurohit, Keller</td>
<td>GA</td>
</tr>
<tr>
<td>Hand and Arm Test of Timed Task Completion for Person with Neurological Condition</td>
<td>Deans Translational Research Award</td>
<td>Grampurohit, Gerhardt, Mulcahey</td>
<td>Outcomes and Measurement Center of Excellence Volunteer, GA, SOTA</td>
</tr>
<tr>
<td>Activity Based Neurorehabilitation for Individuals with Spinal Cord Injury</td>
<td>NIDILRR Spinal Cord Injury Model System</td>
<td>Grampurohit, Marino, Mulcahey, Bell</td>
<td>Volunteer, GA, SOTA, OTD, Capstone</td>
</tr>
<tr>
<td>Linking Outcome Measures Across the Continuum of Care and Age</td>
<td>NIDILRR Spinal Cord Injury Model System</td>
<td>Grampurohit, Mulcahey</td>
<td>Outcomes and Measurement Center of Excellence</td>
</tr>
<tr>
<td>Partnership for Developmentally Supportive Care in India</td>
<td></td>
<td>Carroll</td>
<td></td>
</tr>
<tr>
<td>Innovative OT Programming to Support Health and Wellness for All Populations in Morocco</td>
<td></td>
<td>Chabot</td>
<td>Volunteer, Course, MSOT, OTD</td>
</tr>
<tr>
<td>Collaborations with the Local Village Network to Support Productive Aging in the Community</td>
<td></td>
<td>Chabot</td>
<td>Volunteer, GA, SOTA, Course</td>
</tr>
<tr>
<td>Project ImPACT for Children with Social and Communication Challenges</td>
<td></td>
<td>Muhlenhaupt</td>
<td></td>
</tr>
<tr>
<td>EuREKA Project Coaching in Context for College Success Program</td>
<td></td>
<td>Potvin</td>
<td></td>
</tr>
<tr>
<td>After School Program for Underserved Children with Autism</td>
<td></td>
<td>Thomas, Schaaf</td>
<td></td>
</tr>
<tr>
<td>Normative Values of Spine Motion and Flexibility in Typically Developing Girls</td>
<td></td>
<td>Mulcahey</td>
<td>Outcomes and Measurement Center of Excellence, Volunteer, GA, SOTA</td>
</tr>
<tr>
<td>Development of the Spinal Cord Injury Functional Index Performance Measure</td>
<td></td>
<td>Mulcahey</td>
<td>Outcomes and Measurement Center of Excellence, Volunteer, GA, SOTA</td>
</tr>
</tbody>
</table>

Grampurohit, Outcomes and Measurement Center of Excellence, Mulcahey, Outcomes and Measurement Center of Excellence, Mulcahey, Grampurohit, Keller, Mulcahey, Grampurohit, Fedorczyk, Serruya, Mulcahey, Grampurohit, Keller, Grampurohit, Multani, Bell.
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: Shriners 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, Marina, 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

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

Designing Active Learning Classroom for a Neurodiverse Student Body
Funded By: Industry Sponsored
Pativin, 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)
Funded By: M.H. Bruder Foundation
Toth-Cohen, Earland
GA, Course

Changing Practice: Impact of FWII Students on FW Educator Practice
Navarro-Walker, Leonard
Course, OTD, Capstone, MSOT, FW

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

Developing Effective Teaching Teams for Learner-Centered Instruction
Zapletal, Sinko
GA, Course, Capstone, MSOT

Developing Future Educators
Zapletal, Sinko
GA, Course, Capstone, MSOT
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