

# Curriculum Vitae

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## Mary Jane (MJ) Mulcahey PhD, OTR\L, CLCP, CHC, FASIA

### FORMAL EDUCATION

- Ph.D. Capella University, Minneapolis, MN  
Doctor of Education  
Dissertation Title: Reliability of the International Standards for Neurological Classification of Spinal Cord Injury in Youth  
May 2005
- M.S. Thomas Jefferson University, Philadelphia, PA  
Master of Occupational Therapy  
Thesis Title: Returning to School after a Spinal Cord Injury: Lived Experiences of Youth  
May 1991
- Post-Baccalaureate Certificate Thomas Jefferson University, Philadelphia, PA  
Certificate of Occupational Therapy  
Capstone Project: Occupational Therapy for Persons with Chronic Kidney Failure Undergoing Renal Dialysis  
May 1987
- B.S. Gwynedd Mercy College, Gwynedd Valley, PA  
Bachelor of Science in Special\Elementary Education and Early Childhood Education  
January 1984

### CERTIFICATIONS

- Certified Positive Psychology Coach, International Association of Positive Psychology Coaching, May 2021
- Certified Group\Team Coach, School of Coach Mastery, January 2021
- Certified Health Coach, National Society of Health Coaches, August 2020
- Certified Life Care Planner, CLCP # 1520, International Commission on Health Care Certification, January 2020
- Calibrated Assessment Motor and Processing Skills Rater, Center for Innovative OT Solutions, January 2020
- Certified Competent Coach, School of Coach Mastery, September 2019

## LICENSURE

Licensed Occupational Therapist, Pennsylvania PA #OC-002430-L

National Board for Certification in Occupational Therapy #913984, Initial Certification on 8/15/87

## FACULTY APPOINTMENTS

- 2012 – current      **Professor of Occupational Therapy (with Tenure, as of 3/2016)**  
College of Rehabilitation Sciences  
Department of Occupational Therapy  
Rehabilitation Medicine (secondary appointment as of 11/2019)  
Sidney Kimmel Medical College  
Thomas Jefferson University  
Philadelphia, PA
- 2007 – 2012      **Research Associate Professor**  
College of Health Professions  
Department of Occupational Therapy  
Thomas Jefferson University  
Philadelphia, PA
- 1999 – 2007      **Adjunct Instructor**  
Philadelphia University, College of Health Professions  
Dept. of Occupational Therapy  
Philadelphia, PA

## HOSPITAL AND ADMINISTRATIVE APPOINTMENTS

- 2023 – current      **Occupational Therapist & Certified Life Care Planner**  
Turning Point Life Care Planning  
Philadelphia, PA
- 2018 – current      **Director**  
Center for Outcomes and Measurement  
College of Rehabilitation Sciences  
Thomas Jefferson University  
Philadelphia, PA
- 1999 – 2012      **Director**, Rehabilitation Services and Clinical Research  
Principal Investigator  
Member, Hospital Executive Committee  
Shriners Hospitals for Children

Philadelphia, PA

1994 – 1999      **Clinical Coordinator/Co-Investigator**, Spinal Cord Injury  
Research  
Shriners Hospitals for Children  
Philadelphia, PA

1988 – 1999      **Research Associate**, Spinal Cord Injury  
Shriners Hospitals for Children  
Philadelphia, PA

1987 – 1988      **Occupational Therapist**, Spinal Injury Unit  
Shriners Hospitals for Children  
Philadelphia, PA

#### **AWARDS, HONORS, AND MEMBERSHIP IN HONORARY SOCIETIES**

1991              **The Inquisitive Clinician Award**, Thomas Jefferson University

2000              **The Emerging Leader Award**, Thomas Jefferson University

2005              **Best Scientific Poster Award**, American Spinal Injury Association  
Annual Conference, Dallas, TX

2006              **The G. Heiner Sell Research and Education Award**, American  
Spinal Injury Association

2007              **The Inaugural Apple Award**, American Spinal Injury Association

2009              **The Clinical Excellence Award**, American Paraplegia Society  
**The Gayle Arnold Award**, Dev. Med. Child Neurology

2011              **The Anapol Advocate Award for Spinal Cord Injury**, Runner-up

2012              **Derek Harwood-Nash Award**, AM J Neuroradiology

2013              **Therapist Excellence Award**, Paralyzed Veterans of America,  
Orlando, FL

2014              **Best Scientific Poster**, American Spinal Injury Association Annual  
Meeting, San Antonio, TX

**The Cordelia Myers AJOT Best Paper Award**, American Journal of  
Occupational Therapy

2015              **Inducted**, Phi Alpha Eta Society

**Inducted**, the American Occupational Therapy Foundation  
Academy of Research  
**Vogel Award for Best Pediatric Paper Published in 2014**,  
American Spinal Injury Association

- 2018                    **The Sir Ludwig Guttmann Lecture and Plenary. Spinal Cord Injury in Children and Youth: Evidence, Assumptions and Research Priorities**, International Spinal Cord Society, Sydney, Australia
- 2019                    **Provost Team Award for Interdisciplinary Research**, Thomas Jefferson University  
**Inducted**, Fellow of the American Spinal Injury Association, April 5, 2019
- 2021                    **The Comarr Memorial Award**, Academy for Spinal Cord Injury Professionals  
**Provost Faculty Mentoring Award**, Thomas Jefferson University  
**American Spinal Injury Association Lifetime Achievement Award**

#### **MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES**

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|-----------------|--|
| 2020-current    | National Society of Health Coaches                             |
| 2019-current    | Positive Psychology Coaching Association                       |
| 2019-current    | International Coaching Federation                              |
| 2018-current    | International Society of Rehabilitation Professionals          |
| 2010-2011, 2021 | Academy of Spinal Cord Injury Professionals                    |
| 1993-2012       | American Congress of Rehabilitation Medicine                   |
| 1989-current    | American Spinal Injury Association                             |
| 1989-current    | International Spinal Cord Injury Society                       |
| 1989-2007       | American Paraplegia Society                                    |
| 1988-current    | American Occupational Therapy Association                      |
| 1988-current    | World Federation of Occupational Therapy                       |
| 1988-2010       | American Academy of Developmental Medicine and Child Neurology |
| 1988-2011       | American Congress of Children's Orthotics and Prosthetics      |

#### **PROFESSIONAL AND SCIENTIFIC COMMITTEES**

##### Professional Organizations

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|--------------|--|
| 1989         | Scientific Chair, International Society for Management of the Upper Extremity in Tetraplegia |
| 2010-2012    | Co-chair, SCI Special Interest Section, American Congress of Rehabilitation Medicine         |
| 2011-2013    | Member, Scientific Review Committee, American Paraplegia Society                             |
| 2014         | Chair, 3 <sup>rd</sup> OT Research Summit, Philadelphia, PA                                  |
| 2015-current | Program Committee Member, International Spinal Cord Injury Society                           |
| 2015-2020    | Vice President, Pediatric Spine Foundation   |
| 2017         | Abstract Review for Pi Theta Epsilon Poster Session at AOTA/NBCOT National Student Conclave  |

2017-2019 Scientific Advisory Council, American Occupational Therapy Foundation  
 2017-current Founder and Chair of Board of Directors, Steel Assembly for Pediatric Spinal Cord Injury Research and Education  
 2017-2020 Chair, Spinal Trials Understanding Design and Implementation (STUDI) Trial Design Sub-Committee Spinal Cord Outcomes Partnership Endeavor (SCOPE)  
 2019-2020 Member, Board of Trustees, American Occupational Therapy Foundation  
 2021-2023 Chair, Board of Trustees, American Occupational Therapy Foundation

#### American Spinal Injury Association

1992-2011 Member, Publication Committee  
 2006-2012 Chair, Pediatric Committee  
 2007-2011 Member, International Standards Committee  
 2008-2012 Chair, Rehab Standards Committee  
 2008-2021 Member, Rehab Standards Committee  
 2011-2013 Secretary and Treasurer  
 2012-2018 Member, Pediatrics Committee  
 2013-2015 President Elect  
 2015-2017 President  
 2015-2019 Founder, Chair – Ad Hoc Training Committee  
 2017-2019 Immediate Past President  
 2018-2019 Member, Program Committee  
 2019-2020 Interim Chair, Education Committee  
 2020-2021 Co-Chair, Ad Hoc Journal Committee  
 2021 Directors' Nominating Committee

#### Grant Peer Review\Study Sections

2008-2013 Craig H. Neilsen Foundation, ad hoc reviewer  
 2010-2011 University Of Wisconsin- Milwaukee's Research Growth Initiative  
 2013-2014 NIDRR – Disability and Rehabilitation Research Projects, Health and Function of Individuals with Disabilities.  
 2013-2015 PCORI – Dissemination and Communication RFP  
 2015-2019 Chair, SCIRP, Dept. of Defense Congressionally Directed Medical Research Program  
 2015 NIDLIRR Switzer Fellowship  
 2015 Wings for Life.  
 2015 NIDLIRR Research Fellowship Program Disability and Rehabilitation-Policy Research  
 2015 Wings for Life  
 2017 Action in Research (European Agency)  
 2017 Craig H Neilsen Foundation Scholarship Award.  
 2020 American Occupational Therapy Foundation Gary Kielhofner Fellowship Award  
 2020 American Occupational Therapy Foundation Nedra Gillette Fellowship Award  
 2020 American Occupational Therapy Foundation Implementation Science  
 2021 Ohio Third Frontier Research Initiative  
 2021 Wings for Life  
 2022 Craig H. Neilsen Foundation Research Across the Translational Spectrum Study Section

#### Advisory Boards

1997-2003 Philadelphia University Occupational Therapy Program  
 2015-2022 Implantable upper extremity neuroprosthesis studies (Peckham, HP, PI)  
 2017-2020 Dept. of Defense. Educational needs and priorities around upper limb

- interventions for persons with spinal cord injury and their caregivers. (Fox, I, PI).
- 2019-current R25 Rehabilitation Medicine Scientist Training Program (RMSTP). Boninger M, White J (PI).
- 2020-2022 Abbie Neurorestoration Advisory Board

### International Workgroups and Expert Panels

- 2011 Contributing Member, International Working Group: development of SCI basic data set for musculoskeletal health
- 2012-2013 Contributing Member, International Working Group: development of SCI basic data set for upper extremity function
- 2013-2015 Contributing Member, Spinal Cord Outcomes Partnership Endeavor
- 2013-2015 Contributing Member, NINDS Spinal Cord Injury Common Data Element Working Group Member, Functional Outcomes Work group
- 2015 Tri-Chair, Craig H. Neilsen Foundation International Consensus Meeting on Upper Extremity Outcomes Instruments. Philadelphia, PA. January 2015.
- 2015-2018 Co-Chair, NINDS Spinal Cord Injury Common Data Element Pediatric Work Group
- 2015-2019 Member, Oversight Committee, SCI CDE, NINDS
- 2017 Review Panel. Opportunity for Improving Programs and Services for Children with Disabilities Board on Health Care Services; Health and Medicine Division; National Academies of Sciences, Engineering, and Medicine. ISBN 978-0-309-47224-1 | DOI 10.17226/25028.
- 2018 United States Dept. of Labor. National Occupational Information Network Data Collection, Occupational Therapy.
- 2019 Panel Participant: Neuromodulation for Chronic Spinal Cord Injury. NIH Spinal Cord Injury 2020 Decade of Disruption. Feb. 12-12, 2019, Bethesda, MD.
- 2020-2021 Chair, Spinal Cord Injury Research Evidence, Pediatric Workgroup. Funded by Rick Hansen Institute.
- 2022 AOTF Planning Grant Collective. Fatigue: An understudied barrier to participating fully in daily life. Jan. 18-20, 2022.

### Tenure Review

- 2017 University of Wisconsin, College of Health Professions
- 2018 USC Chan Division of Occupational Science and Occupational Therapy  
University of Pittsburgh, College of Rehabilitation Sciences
- 2020 Tufts University, College of Rehabilitation Sciences  
University of Missouri, School of Health Professions  
John Hopkins University, School of Medicine
- 2021 Washington University, School of Medicine  
Colorado State, College of Health Professions  
The Ohio State University, School of Medicine

### **EDITORIAL POSITIONS**

#### Editorial Boards of Professional Journals

- 2017-2023 Physical Therapy Journal
- 2015-2020 Spinal Cord
- 2014-2020 Physical and Occupational Therapy in Pediatrics
- 1996-2009 American Journal of Occupational Therapy

### Associate Editor of Professional Journals

2011-2023 Associated Editor, Topics in Spinal Cord Injury Rehabilitation  
2010-2012 Associate Editor, American Journal of Occupational Therapy  
1998-2011 Specialty Topics Editor, Topics in Spinal Cord Injury Rehabilitation

### Guest Editor of Professional Journals

2022 Updates on Pediatric Spinal Cord Injury and Dysfunction: Part 2. Topics in Spinal Cord Injury Rehabilitation, 28(2) 2022.  
Updates on Pediatric Spinal Cord Injury and Dysfunction: Part 1. Topics in Spinal Cord Injury Rehabilitation, 28(1) 2022.  
2018 Upper Extremity Considerations in Spinal Cord Injury. Topics in Spinal Cord Injury Rehabilitation, 2018;14(3).  
2013 Howard H. Steel Conference on Pediatric SCI and Dysfunction. Topics in Spinal Cord Injury Rehabilitation 19(1);2013.  
2012 Spinal Cord Injury. Topics in Pediatric Physical Medicine Rehabilitation. Special Issue on Pediatric Spinal Cord Injury Rehabilitation 5(4), 2012.  
2010 Transition Issues for Youths with Spinal Cord Injury, Top Spinal Cord Med 11(4), 2010.  
2008 Contemporary Perspectives of the Upper Limb in Tetraplegia. Top SCI Rehabil 13(4), 2008.  
2008 Upper Extremity in Tetraplegia. Hand Clin 24(2), 2008.  
2004 Pediatric spinal cord injury. Top Spinal Cord Med 10(4), 2004.

### Peer Referee for Professional Journals

Spinal Cord Cases  
Spinal Cord  
J Spinal Cord Medicine  
Archives of Physical Medicine and Rehabilitation  
Developmental Medicine and Child Neurology  
J Pediatric Orthopedics  
Amer. J of Occupational Therapy  
Occupational Therapy J of Research  
British J Occupational Therapy  
Neurorehabilitation and Neurorepair  
J Neurotrauma

### **ACADEMIC COMMITTEES**

#### Jefferson College of Rehabilitation Sciences

2021 Member, JCRS Strategic Planning Subcommittee- SPLINT- Research/Scholarship  
2020-2021 Member, Research Advisory Committee, Jefferson College of Rehabilitation Sciences.  
2019-current Member, College Executive Committee, Jefferson College of Rehabilitation Sciences  
2019-2021 Member, College Leadership Team, Jefferson College of Rehabilitation Sciences  
2019-2020 Ad Hoc Member, Appointment and Promotion Committee, Jefferson College of Rehabilitation Sciences  
2019 Co-chair, Research Committee Steering Committee, Jefferson College of Rehabilitation Sciences

- 2018 Co-chair, PhD Development Committee, Jefferson College of Rehabilitation Sciences
- 2017-2018 Co-chair, OT Chair Search Committee, Jefferson College of Rehabilitation Sciences
- 2013-2014 Member, Research Committee, Thomas Jefferson University, Jefferson College of Health Professions

Thomas Jefferson University

- 2021- Chair, University Committee on Appointment, Promotion and Tenure
- 2019-2020 Faculty Member-at Large (Research), Faculty Advisory Committee,
- 2018 Peer Review, Dean’s Transformational Science Award
- 2015-2020 Member, Research Subcommittee, Thomas Jefferson University Academic Board
- 2016-2017 Member, Thomas Jefferson University-Philadelphia University Promotion and Tenure Integration Team
- 2016-2020 Member, Tenure Committee, Thomas Jefferson University
- 2015-2018 Member, Jefferson Committee on Research, Thomas Jefferson University
- 2015-2017 Member, Oversight Committee, Jefferson Clinical Research Institute, Thomas Jefferson University
- 2013-2023 Member, Faculty Advisory Council to the Provost, Thomas Jefferson University

**MAJOR TEACHING AND CLINICAL RESPONSIBILITIES**

**Curriculum Development**

2021

Graduate Certificate in Life Care Planning, Thomas Jefferson University, College of Rehabilitation Sciences

Developed four, 3-credit graduate courses on Life Care Planning that are designed to be delivered entirely online. The Life Care Planning graduate certificate courses are stackable (transcripts and credits can be transferred, and applied towards clinical doctoral programs) and satisfy the educational requirements for sitting for the International Commission on Health Care Certifications Life Care Planning Certification. The program is designed for interdisciplinary professionals in health care, education, community based practiced, vocational rehabilitation and counseling. First cohort Sept. 2021.

Advanced Practice Graduate Certificate (APC), Coaching in Context, Thomas Jefferson University, College of Rehabilitation Sciences

Developed four, 3-credit graduate courses on Coaching in Context that are designed to be delivered entirely on-line. The APC is an interdisciplinary program offered by the JCRS and the courses are stackable (transcripts and credits can be transferred, and applied towards clinical doctoral programs). The program is designed for interdisciplinary professionals in health care, education and community based practices. First cohort Sept. 2021.

2019

4-credit Graduate Course: Scoping Review Methodology, Thomas Jefferson University, College of Rehabilitation Sciences

Developed and taught a 4-credit graduate course on Scoping Review Methodology (Fall 2019).



The course syllabus and material are archived in Canvas for JCRS faculty for future semesters.

## 2008

### 3-credit Doctoral Course: Disabilities Studies, Thomas Jefferson University, College of Rehabilitation Sciences

Developed a 3-credit elective on disabilities studies for the post professional doctoral program in occupational therapy. Taught as lead instructor one semester in each year 2008-2009.

### 3-credit Doctoral Course: Leadership for Occupational Therapists, Thomas Jefferson University, College of Rehabilitation Sciences

Developed a 3-credit core course for the post professional occupational therapy doctoral program. Taught as lead instructor every spring semester from 2008-2013. The course remains a core\required course for students matriculating in the post professional occupational therapy doctoral program.

## 2007

### 3-credit Doctoral Course: Advanced Evidence Based Practice, Thomas Jefferson University, College of Rehabilitation Sciences

Developed a 3-credit required\core course for the post professional occupational therapy doctoral program. Taught as lead instructor every fall semester from 2007-2016. The course remains a core\required course for students matriculating in the post professional occupational therapy doctoral program.

## 1999

### 3-credit Graduate Course: Research Methodology for Occupational Therapists, Philadelphia University, Dept. of Occupational Therapy.

Developed 3-credit required course for Master's Degree students in occupational therapy. Taught the course each spring semester 1999-2007.

### 3-credit Graduate Course: Neuroanatomy for Occupational Therapists, Philadelphia University, Dept. of Occupational Therapy.

Developed 3-credit required course for Master's Degree students in occupational therapy. Taught the course each fall semester 1999-2007.

## **Mentorship: Post-Doctoral and Junior\Mid-Career Faculty**

- Research Mentor, Namrata Grampurohit, PhD: Jefferson Emerging Medical Scientist Award (JEMS). "Development and validation of the SCI-MI Self Care Domain". 2020-2022. (JCRS faculty)
- Research Mentor, Namrata Grampurohit, PhD: Post Discharge Support for Caregivers of Stroke through Telehealth Coaching in Context. American Therapy Foundation (AOTF). 2020-2022. (JCRS faculty)
- Research Mentor, Namrata Grampurohit PhD: Training in Grantsmanship for Rehabilitation Research (TIGRR). "Linking the Pediatric Spinal Cord Injury Activity Measure to the SCI-FI\AT. 2020-2021. (JCRS faculty)
- Research Mentor, Jenny Martinez, OTD: Psychometric Evaluation of the SCIM-III SR-Y. ASIA-CHNF Award. 2020-2022. (JCRS faculty)

- Research Mentor, Anne Bryden, OTR\L, Ph.D Candidate: 2015 Neilsen Award of ASIA, "The Development of a Novel Upper Extremity Assessment Protocol for Acute Tetraplegia." 2015-2016. (Case Western Reserve University faculty)
- Mentor Instructor, Guided Clinical Research Tutorial, Linda Jones MSPT, PhD Candidate, Clinical Science Program, Colorado State University, (Jan. 2015 – May 2015).
- Research Mentor, Sukhvinder Kalsi-Ryan, BScPT MSc PhD, Post-Doctoral Fellowship: "Evaluation of the Responsiveness of the GRASSP" Funded by the Craig. H. Neilsen Foundation. 2013-2015. University of Toronto faculty)
- Fellowship Sponsor and Advisor, Dr. Laura Krisa, PhD, Post-Doctoral Fellowship: "fMRI and the International Standards for Neurological Classification of Spinal Cord Injury" Funded by Shriners Hospitals for Children. 2010-2013. (JCRS faculty)
- Member, Doctoral Dissertation Committee. "Assessment of lower motor neuron integrity following cervical spinal cord injury". David Hutchinson, SC D Candidate, Rocky Mountain University, Salt Lake City, Utah. 2013
- Member, Doctoral Dissertation Committee. "Diffusion Tensor Imaging of the Pediatric Cord". Nadia Baraka, PhD Candidate. Temple University, Philadelphia PA. 2012.
- Member, Doctoral Dissertation Committee. "Overcoming Metal Artifact for Diffusion Tensor Imaging". Devon Middleton, PhD Candidate Temple University, Philadelphia, PA. 2012.

### **Faculty Mentor: JCRS Occupational Therapy Doctoral Student Capstone**

2021-2022    Jeremy Armstrong  
                   Martha Childress  
                   Olivia Biller

2020-2021    "Development of an item pool amendable to early administration following spinal cord injury". *Hannah Dalton OTD*. Submitted for presentation at the 2021 International Spinal Cord Society Meeting, Oct. 2021, Vancouver Canada.

Neuroplasticity and coaching: Narrative review of the literature. *Giulia Hedeyman OTD*.

2019-2020    "Puberty in females with Autism: A Scoping Review. *Glynnis Boykin, MSOT, OTD*. Under review, J Autism and Developmental Disabilities.

"Outcomes of Health Coaching in Context with Caregivers of Youth with Spinal Cord Injury". *Bernadette Alpajora, OTD*. Award eligible trainee poster, International Spinal Cord Society Meeting, Sept. 2020 (originally in Japan, moved to virtual platform due to COVID-19).

"Assessment of Fidelity to Health Coaching in Context" *Taylor Sivori, OTD*. Submitted to the 2021 NJOT Association Meeting.

"Development of normative values for spine range of motion in youth between 10-17 years of age" *Madelyn Adams, OTD, OTR\L*. In Press by Journal of Chiropractic Medicine.

"Development of a manual for the Spinal Cord Injury Movement Index: Fine Motor Domain" *Rachel Kim, OTD*. Trainee Award Poster, International Spinal Cord Society

Meeting, Sept. 2020 (originally in Japan, moved to virtual platform due to COVID-19).

2018-2019 “Development and validation of a fidelity measure for school-based sensory enhanced yoga”. *Erin O’Neil, MSOT, OTD*.

“The Lived Experience of Pediatric Spinal Cord Injury: A Narrative Inquiry”. *Samantha Betz, OTD, OTR/L*. Accepted, with revisions, Spinal Cord Series and Cases.

“Health Coaching in Context: A Case Illustration”, *Caitlin Cadematori, OTD, OTR/L*. Under review, Spinal Cord Series and Cases.

2017-2018 “Transitional Services for Youth with Intellectual Disabilities: A Scoping Review”. *Taryn Rosner, MSOT, OTD*. School-to-work transition for youth with intellectual disabilities: A practice gap in occupational therapy. *AJOT*, 74, 7402205020. <https://doi.org/10.5014/ajot.2020.035220>.

“Development and Evaluation of a Fidelity Measure for the Occupational Performance Coaching Intervention”, *Shruti Gadkari, MSOT, OTD*. Presented at the 2019 AOTA Conference, New Orleans, April 2019.

“Extensor Tendon Rehabilitation for Zones IV-VII and the Adoption of Relative Motion: A Survey of Practice Patterns, *Annalisa Synnestvedt, MSOT, OTD*.

2016-2107 “The Collaborative Education and Competence Model (CECM) for Performance Based Outcome Measures: Establishing Validity and Utility Among Occupational Therapists”. *Gina Fox, MSOT, OTD*. Presented at the 2017 AOTA Conference, Philadelphia, PA, April 2017.

“Development and Evaluation of the Effectiveness of a Web-Based Resource Guide on Activities and Community Programs during After-School Hours: Empowering Families with Autism”, *Jessica Ng, MSOT, OTD*.

“The Needs, Priorities, and Experiences of Chassidic Families That Have a Child with an Autism Spectrum. Disorder”, *Faye Levy, MSOT, OTD*. Presented at the 2017 AOTA Conference, Philadelphia, PA, April 2017.

2015-2016 “Development and Initial Evaluation of A Screening Readiness Tool and Manual for Online Learning By Students with Learning Disabilities as They Transition to Higher Education”. *Sandra Botswick, BSOT, OTD*.

“Animal-Assisted Therapy Standards of Practice and Recommendations for Best Practice Are Not Fully Integrated into Pediatric Occupational Therapy Practice”. *Sara Jasin Shue, MSOT, OTD*. *The International Journal of Research and Practice*, Vol. 1 : Iss. 1 , Article 3.

“Alignment Between Core Values of Occupational Therapy and Outcome Instruments Used in Hand Therapy: A Scoping Review”. *Danielle Hoover Leshner, MSOT, OTD.*(*American J Occupational Therapy* 2017, 71(1):7101-7114).

**Faculty Mentor: JCPH Masters in Public Health Student Capstone**

2017-2018 “Participation Among Children With and Without Spinal Cord Injury”. *Lindsey Siska, MPH*

**Courses Taught**

**Jefferson College of Rehabilitation Sciences Graduate Certificate in Life Care Planning**

Course Title: JCRS 730 Introduction to Life Care Planning

Role: Course Director and Instructor

Credits: 3

Description: The course introduces learners to life care planning. Students explore the history of life care planning, credentials, scope and standards of life care planning profession. Learners appreciate life care planning as an interprofessional practice, consider United States legislation germane to the life care plan (LCP), identify roles of LCP members, articulate the seven principles of universal design, appreciate home modifications, assistive technology and adaptive driving as they relate to life care planning. Students will articulate ethical principles of life care planning and be introduced to and begin to apply methodologies of life care planning.

Years Taught: Fall Semester 2023, 2022, 2021

Course Title: JCRS 731 Primer of Catastrophic Injuries and Chronic Conditions

Role: Course Director and Instructor

Credits: 3

Description: This course provides an overview of common catastrophic injuries and chronic conditions addressed by the LCP. Students examine etiologies (and their classifications), morbidity and mortality, secondary biopsychosocial outcomes of spinal cord injury, traumatic brain injury, traumatic limb loss, brachial plexus injury, burn injuries, chronic pain, low vision, and hearing. Additional topics include organ transplantation, serious mental illness, neurodevelopmental disabilities, neurodiversity and aging. Medical treatments, rehabilitation, habilitation and psychosocial assessments and interventions are discussed. Standards of practice of life care planning are applied

Years Taught: Spring Semester 2023, 2022

Course Title: JCRS 732 Specialty Topics in Life Care Planning

Role: Course Director and Instructor

Credits: 3

Description: This course reviews study designs and basic statistical methods commonly used in research, and applies this knowledge to understand and incorporate study findings into LCP, and to justify projected needs and estimated costs. This course also introduces students to United States law and civil procedures, discuss rules for evidence in litigation, simulate courtroom proceedings and exchanges, and provide court advice relevant to the life care planner. The course further examines methods used to calculate estimated costs for projected needs, and explores ethics of life care

planning. Analysis of a sanitized life care plan provides opportunity for students to identify strengths in a LCP, identify errors in a LCP, and develop questions to ask the life care planner.

Years Taught: Summer I 2023, 2022

Course Title: JCRS 733 Life Care Planning Practicum

Role: Course Director and Instructor

Credits: 3

Description: This course serves as the practicum for Jefferson's graduate certificate in Life Care Planning. Students will understand credentialing process and educational requirements for the Certified Life Care Planner. Students will apply standards of practice to create a life care plan.

Years Taught: Summer II 2023, 2022

### **Thomas Jefferson University Post Professional Occupational Therapy Doctoral Program**

Course Title: JCRS 760 Coaching in Context: Introduction and Development

Role: Co-Instructor

Credits: 3

Description: This course introduces students to coaching competencies formulated by the International Coaching Federation and operationalize these competencies into a coaching approach, Coaching in Context, that is geared toward health, rehabilitation, human services, and education professionals. Core concepts of coaching are discussed using seminal evidence. Coaching models and frameworks are explored, and alignment with students' discipline frames of references are examined. Students will practice coaching with classmates and others. Key to coaching, students will discuss and practice ways to connect, clarify and plan with clients. At the end of this course, students will have acquired foundational coaching skills. This course may be taken in isolation or as the first course of the Advance Practice Certificate. Skilled instructors who are certified coaches have designed this engaging course which makes use of advanced evidence-based teaching and learning strategies combining a variety of learning approaches to meet the preferences of all learners.

Years Taught: Fall 2021

Course Title: OT799 Seminar in Clinical Research

Role: Course Instructor

Credits: 1-4

Description: This course provides a mentored experience and is tailored to the needs of doctoral students in preparation for their capstone project and fellowship experience.

Years Taught: Spring 2021 (1 credit, 1 student), Fall 2020 (2 credits, 1 student), Fall 2019 (4 credits, 3 students), Spring 2019 (4 credits, 1 student), Summer 2018 (4 credits, 1 student), Fall 2017 (2 credits, 1 student), Spring 2017 (4 credits, 1 student), Summer 2016 (2 credits, 1 student), Spring (2 credits, 1 student), Summer 2014 (2 credits, 1 student), Spring 2013 (2 credits, 1 student), Fall 2013 (4 credits, 1 student), Summer 2008 (3 credits, 1 student), Summer 2007 (3 credits, 3 students), Fall 2008 (3 credits, 1 student).

Course Title: OT798 Advanced Evidence Based Practice

Role: Course Director and Instructor

Credits: 3

Description: Students examine evidence-based practice from a conceptual, empirical, practical and personal perspective. In doing so, students develop skills and confidences that are needed to

conduct literature searches, appraise research literature and clinical practice guidelines and, translate evidence into practice by integrating “best” evidence, client values and priorities, their own clinical experiences and environmental considerations. Students examine outcome instruments from a psychometric perspective and consider the ethical and practical elements associated with use of outcomes instruments. Among other outcomes, students articulate a clinical bottom line for a clinical question, prepare a professional scientific poster, and submit a critically appraised paper to the AOTA Evidence Exchange. This course fosters the development of advanced practice skills necessary to the post professional occupational therapy doctorate candidate.

*Years Directed and Taught:* Fall 2016, 2015, 2014, 2013, 2012, 2011, 2010, 2009, 2008, 2007  
*Years Lectured One Module (Measurement)* Fall 2020, 2019, 2018, 2017

*Course Title:* OT782 Leadership: Moving Beyond Traditional Roles

*Role:* Course Director and Instructor

*Credits:* 3

*Description:* students are exposed to various leadership theories as a basis for developing their own leadership style. Students synthesize knowledge from current health, political and social trends to forecast needs and opportunities for the future and analyze how these trends and policies affect health policy and their impact on both health care professionals and individuals with disabilities. Funding opportunities to support new and innovative practices are explored.

*Years Taught:* Spring 2013, 2012, 2011, 2010, 2009, 2008

### **Thomas Jefferson University Entry Level Program in Occupational Therapy**

*Course Title:* OT560 Research Methods

*Role:* Lecturer (three, two hour course content on analytic methods)

*Credits:* 4

*Course Description:* This course covers research methodologies for rehabilitation science and occupational therapy.

*Years Taught:* Fall 2019

### **LECTURES BY INVITATION**

- Endpoints in Spinal Cord Injury Clinical Trials. The Inaugural Spinal Cord Injury Investors’ Symposium. San Diego, CA. June 29, 2023.
- Research: An essential element to the advancement of occupational therapy. AOTA/AOTF Future Scientist Institute. Kansas City, MI. April 22, 2023.
- Pediatric Spinal Cord Injury: Practicalities and Innovations. Glen E. Gresham Lectureship. University of Buffalo. Buffalo NY, April 5, 2023.
- “Tour de France” of Pediatric Spinal Cord Injury. Keynote. Mary Free Bed Rehabilitation and Educational Academy. Grand Rapids, MI. Sept. 29, 2022.
- The International Standards for Neurological Classification of Spinal Cord Injury When Applied to Children and Youth. XIII Congreso Internacional, XXII Congreso Nacional Peruano, Medicina Fisica y Rehabilitacion. Cusco, Peru, Aug 12-14.
- Pediatric Spinal Cord Injury Measures and Common Data Elements. Pre-course to the Combined Meeting of the New Zealand and Australian Spinal Cord Injury Societies Meeting. Virtual due to COVID 19, October 2021.

- Creating a Research Culture: Engaging Therapists. Association of Academic Physiatrists Program for Academic Leadership. Annual Meeting of the Association of Academic Physiatrists. Virtual due to COVID 19, February 9, 2021.
- Pediatric Spinal Cord Injury: Select Topics. Steel Assembly and American Spinal Injury Association Webinar Series. February 5, 2021.
- Adaptive Trial Designs for Spinal Cord Injury Clinical Trials. Center for Outcomes and Measurement, Jefferson College of Rehabilitation Sciences, February 2021.
- Grand Rounds: Pediatric Spinal Cord Injury. Zucker School of Medicine at Hofstra Northwell, New York, NY. Dec. 9, 2020.
- Neuromodulation using FES Systems. 2019 NINDS Meeting “2020 Decade of Disruption in SCI”. Bethesda MD, Feb.17-18, 2019.
- Technology Transfer of a Neuroprosthesis for hand function after spinal cord injury. Jefferson College of Rehabilitation Sciences Research Conference, January 2019.
- Pediatric Spinal Cord Injury. Dept. of Physical Medicine and Rehabilitation, Sidney Kimmel Medical College. Grand Rounds, October 2018.
- The Sir Ludwig Guttmann Lecture and Plenary. Spinal Cord Injury in Children and Youth: Evidence, Assumptions and Research Priorities. 2018 ISCoS Meeting, Sydney Australia. Sept. 13, 2018.
- There is a Flurry of Innovation and Global Collaboration Germane to SCI Clinical Trials and Outcomes Research. The Fourth Annual Pediatric Research Symposium of the Shriners Hospitals for Children Pediatric Research Center. Philadelphia, PA, June 8, 2018.
- Development and Validation of the Pediatric Measure of Participation and Pediatric Activity Measure. Visiting Professor, USC Chan Division of Occupational Science and Occupational Therapy. TREET, NCMRR-funded T32. Orange County, California, USA. Dec. 11-13, 2016.
- Developing Meaningful Score Reports. Visiting Professor, USC Chan Division of Occupational Science and Occupational Therapy. TREET, NCMRR-funded T32. Orange County, California, USA. Dec. 11-13, 2016.
- Rehabilitation of youth with spinal cord injury: Considerations for life care planning. Invited Instructional Course Lecture. 2015 American Academy of Developmental Medicine and Child Neurology. Austin, Texas, USA. October 2015.
- Responsiveness of computerized adaptive tests to orthopedic surgery. Invited lecture, Sociedad Puertorriqueña de Ortopedia y Traumatología Scientific Meeting. Dorado Beach, Puerto Rico, October 2015.
- Common data elements for pediatrics. Invited lecture, Sociedad Puertorriqueña de Ortopedia y Traumatología Scientific Meeting. Dorado Beach, Puerto Rico, October 2015.
- What do we know about pediatric SCI? Rehabilitation Research and Training Center on Secondary Conditions in Individuals with SCI, Grand Rounds. Medical University of South Carolina. January 29, 2013.
- Assessment in Pediatric SCI. Pre-Course to the 2011 Meeting of the American Congress of Rehabilitation Medicine, Shepherd Center, Atlanta, GA, October 2011.
- Diffusion tensor imaging and neurological assessment in children with SCI. The Inaugural Research Symposium Day at the International Center for Spinal Cord Injury,

Kennedy Krieger Institute, Baltimore, MD, June 2011.

- Pediatric SCI. The International Society of Physical Medicine and Rehabilitation, San Juan, PR, June 2011.
- Neurological evaluation and classification of SCI in children. The Inaugural SpineCare Conference on Innovation and Practice in Childhood Spinal Conditions, Sydney, Australia, March 2011.
- Pediatric SCI, Mary Free Bed Spinal Cord Injury Conference, Grand Rapids, MI, November 2010.
- Development of International Musculoskeletal Data Set for Spinal Cord Injury, Copenhagen, Denmark, May 2010.
- Pediatric Spinal Cord Injury Rehabilitation, Sao Paulo, Brazil, November 2007.
- Pediatric Spinal Cord Injury, International Spinal Cord Society, Florence, Italy, October 2009.
- Keynote Address: 21st Century Rehabilitation. The Howard H. Steel Educational Lectureship, Mexico City, Mexico, November 2006.
- The Hector Kay Lecturer, Association of Children's Prosthetic-Orthotic Clinics, Sacramento, CA, May, 2006
- Keynote Address: 21<sup>st</sup> Century Rehabilitation. The First Meeting of the Mayo Clinic Spine Conference, Hawaii, January 2006.
- Visiting Professor, Walter Reed Medical Center. Rehabilitation of SCI in the 21<sup>st</sup> Century. Bethesda, MD, October, 2004.
- Keynote Address: The Overall Assessment of Persons with Tetraplegia. The Seventh International Meeting of the Upper Limb in Tetraplegia, Bologna, Italy, 2001

### **ORGANIZING ROLES IN SCIENTIFIC MEETINGS**

- **Chair**. The Howard H. Steel Conference on Pediatric Spinal Cord Injury and Dysfunction. Universal Studios, Orlando, Fl, Dec. 5-7, 2020 (delayed due to COVID, now 12/2021)
- **Chair**. The Howard H. Steel Course on Pediatric SCI and Dysfunction. PreCourse to the 57<sup>th</sup> ISCoS Meeting, Sydney Australia. Sept. 12, 2018, 8:00 am – 5:00 pm.
- **Chair**. The Howard H. Steel Course on Pediatric SCI and Dysfunction. PreCourse to the 2017 Annual Meeting of the American Spinal Injury Association, Albuquerque, NM. April 26, 2017, 8:00 am-6:00 pm, Topics in SCI Rehabilitation, 23(sup1), 2017.
- **Chair**. Contemporary Occupational Therapy Spinal Cord Injury Best Practice. Presented at the 2017 Annual Conference and Expo of the American Occupational Therapy Association, Philadelphia, PA, March 30, 2017, 12:00pm-6:30 pm.

### **PUBLICATIONS. PEER-REVIEWED**

1. Betz RR, **Mulcahey** MJ, Smith BT, Triolo RJ, Weiss AA, Moynahan M, Keith MW, Peckham PH. Bipolar latissimus dorsi transposition and functional neuromuscular stimulation to restore elbow Flexion in an Individual with C4 Tetraplegia and C5 Denervation. J Am Paraplegia Soc 1992;15(4):220-8. PMID:1431869
2. Smith BT, **Mulcahey** MJ, Triolo RJ, Betz RR. The application of a modified neuroprosthetic hand system in a child with a C7 spinal cord injury. Paraplegia



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3. **Mulcahey** MJ. Returning to school following a spinal cord injury: perspectives from four adolescents. *Am J Occup Ther* 1992;46(4):305-12. Doi:10.5014/ajot.46.4.305 PMid:156679.
  4. **Mulcahey** MJ, Smith BT, Betz RR, Triolo RJ, Peckham PH. Functional neuromuscular stimulation: outcomes in young people with tetraplegia. *J Am Paraplegia Soc* 1994;17(1):20-35. PMid:8169602
  5. Triolo RJ, Betz RR, **Mulcahey** MJ, Gardner ER. Application of functional neuromuscular stimulation to children with spinal cord injuries: candidate selection for upper and lower extremity research. *Paraplegia* 1994;32: 824-43. Doi: 10.1038/sc.1994.130 PMid:7708423
  6. Smith BT, Betz RR, **Mulcahey** MJ, Triolo RJ. Reliability of percutaneous electrodes for upper extremity functional neuromuscular stimulation in adolescents with C5 tetraplegia. *Arch Phys Med Rehabil* 1994;75: 939-45.
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  8. Smith BT, **Mulcahey MJ**, Betz RR. Quantitative comparison of grasp and release abilities with and without a neuroprosthetic hand system in adolescents with tetraplegia. *Paraplegia* 1996;34(1):16-23. Doi: doi.org/10.1038/sc.1996.3 PMid:8848318
  9. Smith BT, **Mulcahey** MJ, Betz RR. Development of an upper extremity FES system for individuals with C4 tetraplegia. *IEEE Trans Rehab Eng* 1996; 4(4):264-70. Doi: doi.org/10.1109/86.547926
  10. **Mulcahey**, M. J., & Betz, R. R. Upper and lower extremity applications of functional electrical stimulation: a decade of research with children and adolescents with spinal injuries. *Pediatric Physical Therapy* 1997, 9(3), 113-122. Doi: doi.org/10.1097/00001577-199700930-00005
  11. **Mulcahey** MJ, Betz RR. Considerations in the rehabilitation of children with spinal cord injuries. *Top Spinal Cord Inj Rehabil* 1997;3(2):31-6.
  12. \*Davis SE, Weiss AA, Smith BT, Betz RR, **Mulcahey** MJ. Outcomes of upper extremity tendon transfers and functional electrical stimulation in an adolescent with C5 tetraplegia. *Am J Occup Ther* 1997;51(4):307-12. Doi:10.5014/ajot.51.4.307 PMid:9085730
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### **SCIENTIFIC ABSTRACTS**

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  170. **Mulcahey** MJ, Betz RR, Kozin S. Upper Extremity Reconstruction in Children. New Technologies: Is the Child a Candidate? Accepted for presentation at the annual conference of the American Paraplegia Society, September 2000.
  171. **Mulcahey** MJ. Satisfaction of FES. Accepted for presentation at the 5th Scientific Congress, Paralympic Games, Sydney, Australia, October 2000.
  172. Finson R, McCarthy J, Smith BT, Betz RR, **Mulcahey** MJ. Effects of Intramuscular Electrical Stimulation of Joint Excursions During Gait in Children with Cerebral Palsy Requiring Surgical Lengthenings. Accepted for the annual conference of the American Academy of Cerebral Palsy and Developmental Medicine, October 2000.
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  174. Davis SE, **Mulcahey** MJ, Smith BT, Betz RR, Weiss AA, Kozin SH. Evaluation of the Freehand System on a Child's Hand Function and ADL Performance. J Spinal Cord. 22(1):22 Spring 1999
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177. **Mulcahey** MJ, Smith BT, Betz, RR, Weiss AA. Prospective Evaluation of Tendon Transfers in Children. *J Spinal Cord Med.* 21(2):180, 1998.
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179. Ruggerio RA, **Mulcahey** MJ, Betz RR. The Functional Outcome of Spinal Fusion for Paralytic Scoliosis Following SCI in the Pediatric Patient. *J Spinal Cord Med.* 21(2):193, 1998.
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183. Bonaroti D, Betz RR, **Mulcahey** MJ, Akers J. The Functional Comparison of FES and KAFOs in an Ambulatory Child with Complete Paraplegia. *Phy Ther* 77(5):S-67, 1997.
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185. Davis SE, **Mulcahey** MJ, Betz RR. Home Use of an Implanted Upper Extremity Functional Electrical Stimulation System by Five Adolescents with Tetraplegia. *J Spinal Cord Med.* 20(1) 166, 1997.
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196. **Mulcahey** MJ, Betz RR, Smith BT, Weiss AA. Results of the Functional Electrical Stimulation Hand Grasp System in Adolescents with Tetraplegia. Submitted to the Conference of the American Paraplegia Society, Las Vegas, NV, 1995.
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202. **Mulcahey** MJ, Smith BT, Betz RR. Spinal Cord Injury In Children: The Impact on Parents' Routines of Work, Leisure and Rest. *Journal of American Paraplegia Society*. 17(2), 102, 1994.
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## **PUBLICATIONS, NON-PEER REVIEWED**

### **BOOK CHAPTERS**

1. Grampurohit, N & **Mulcahey MJ.** Chapter 9: Psychometric Properties. In: Kramer, P. and Grampurohit, N. (editors). *Hinojosa and Kramer's Evaluation in Occupational Therapy.* Bethesda, MD: AOTA Press. 2020. ISBN#: 9781569005958
2. Grampurohit, N & **Mulcahey MJ.** Chapter 10: Scoring and Interpretation. In: Kramer, P., and Grampurohit, N.(editors). *Hinojosa and Kramer's Evaluation in Occupational Therapy.* Bethesda, MD: AOTA Press. 2020. ISBN#: 9781569005958.
3. Grampurohit N & **Mulcahey MJ.** Outcome Measures. In: Abzug JM, Kozin SK, Neiduski R (editors). *Pediatric Hand Therapy.* Elsevier:Philadelphia. 2020. Chapter 4, p. 31-56.
4. Vogel LC, Betz RR, **Mulcahey MJ,** Zebracki K. Spinal Cord Injuries and Disorders in Children and Adolescents. In: Kirshblum S, & Lin VW (editors). *Spinal Cord Medicine.* Springer Publishing: New York. 2019. Chapter 56, p 926-954.
5. **Mulcahey MJ,** Talero-Cabrejo P, Kern S, Horley A, Koch M, Rude A. (2016) Occupational



- Therapy. In: Harvinder Singh Chhabra (editor). ISCoS Textbook on Comprehensive Management of Spinal Cord Injury. Wolters Kluwer:New Delhi, Chapter 35, pg 538-557.
6. **Mulcahey MJ**, Betz RR, Bryden A, Calhoun C, LaVelle W, Schmidt-Read M, Stiefbold G. (2016) Orthotics. In: In: Harvinder Singh Chhabra (editor). ISCoS Textbook on Comprehensive Management of Spinal Cord Injury. Wolters Kluwer:New Delhi, Chapter 36, pp. 558-579.
  7. **Mulcahey MJ** & Kozin S. (2014). Outcomes Instruments. In: Abzug JM, Kozin SH, Zlotlow D (editors). The Pediatric Upper Extremity. Springer Science+Business Media: New York. DOI:10.1007/978-1-4614-8758-6\_4-1. pp.1-22.
  8. Vogel L, Zebracki K, **Mulcahey MJ**. Special Considerations for Rehabilitation of Pediatric SCI. In: Harvinder Singh Chhabra (editor). ISCoS Textbook on Comprehensive Management of Spinal Cord Injury. Wolters Kluwer:New Delhi, Chapter 63, pp. 941-955.
  9. **Mulcahey MJ** & Fin Sorensen. (2014). Assessment of Children with Spinal Cord Injury. In: Vogel, Zebracki, Betz RR and Mulcahey MJ (editors). The Child With SCI, 2nd edition. McKeith Press: London. ISBN:978-1-909962-34-7.
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  11. Vogel, L.C., Betz, R.R., **Mulcahey, M.J.** (2012) Spinal Cord Injuries in Children and Adolescents. In J. Verhaagen, J. McDonald. (Editors.). Handbook of Clinical Neurology. Elsevier pp138-148.
  12. Vogel, L.C., Betz, R.R., Mulcahey, M.J. (2011). Pediatric Spinal Cord Disorders. In S. Kirshblum, D.I. Campagnolo, (Editors.). Spinal Cord Medicine. Second Edition. Wolters Kluwer; Lippincott Williams & Wilkins, New York, New York, pp 533-564.
  13. Vogel LC, Betz RR, **Mulcahey MJ**. Spinal cord disorders in children and adolescents. In: Lin V (editor). Spinal Cord Medicine Textbook, 2nd ed. New York: Demos, 2010, pp. 595-622.
  14. **Mulcahey MJ**, Betz RR. Pediatric spinal cord injury rehabilitation, ch. 66. In: The Pediatric Spine, 3<sup>rd</sup> ed. New York: Thieme, 2008.
  15. **Mulcahey MJ**. Management of the upper extremity in spinal cord injury, ch. 10. In: Spinal Cord Injury Rehabilitation. St. Louis: Mosby, 2008.
  16. **Mulcahey MJ**. Upper extremity in spinal cord injury. In: AAOS Atlas of Orthoses and Assistive Devices, 4<sup>th</sup> edition. Philadelphia: Mosby; 2008. 203-217.
  17. Betz RR, **Mulcahey MJ**, Vogel LC. Pediatric spinal cord disorders, ch. 29. In: Kirshblum S, Campagnolo DI, DeLisa JA (editors). Spinal Cord Injury Medicine. Philadelphia: Lippincott, Williams & Wilkins, 2006, pp. 438-470.
  18. Betz RR, **Mulcahey MJ**. Pediatric spinal cord injury. In: Weinstein SL (editor). The Pediatric Spine: Principles and Practice, 2<sup>nd</sup> ed. Philadelphia: Lippincott, Williams & Wilkins, 2001, pp. 601-616.
  19. Vogel LC, Betz RR, **Mulcahey MJ**: Pediatric spinal cord disorders in children and adolescents. In: Lin V (editor). Spinal Cord Medicine Textbook. New York: Demos, 2003, pp. 851-884.
  20. Vogel LC, Betz RR, **Mulcahey MJ**. Pediatric spinal cord disorders. In: Kirshblum S, Campagnolo DI, DeLisa JA (editors). Spinal Cord Medicine. Philadelphia: Lippincott,

Williams and Wilkins, 2002, pp. 438-470.

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22. **Mulcahey MJ**. Adaptive equipment and orthoses: applications for upper extremity enhancement in pediatric spinal cord injury. In: Betz RR, Mulcahey MJ (editors). The Child with a Spinal Cord Injury. Rosemont, IL: American Academy of Orthopaedic Surgeons, 1996, pp. 375-392.
23. **Mulcahey MJ**, Betz RR, Weiss AA. Overview of upper extremity management in spinal cord injury. In: Betz RR, Mulcahey MJ (editors). The Child with a Spinal Cord Injury. Rosemont, IL: American Academy of Orthopaedic Surgeons, 1996, pp. 417-418.
24. Betz RR, **Mulcahey MJ**. Rehabilitation of pediatric spinal cord injury. In: Weinstein SL (ed). Pediatric Spine: Principals and Practice. New York: Raven Press, 1994, pp.781-810.

### **BOOKS**

1. Vogel L, Zebracki K, Betz RR, **Mulcahey MJ** (editors). The Child with SCI. McKeith Press: London. ISBN:978-1-909962-34-7. 2014
2. Betz RR, **Mulcahey MJ** (editors). The Child with Spinal Cord Injury. American Academy of Orthopedic Surgeons, Rosemont, IL, 1996.

### **COMMUNITY SERVICE**

- 1999-2020 Scientific Staff, Shriners Hospitals for Children  
2000-2012 Pediatric Orthopedic and Spinal Cord Injury Outreach Clinics (October and April of Each Year). San Juan, PR  
2001-2004 Member, Institutional Review Board, Temple University

### **SUPPORT**

#### **RESEARCH AWARDS- ACTIVE**

- Supporting Coaching Fidelity for Improved Psychosocial Outcomes in Spinal Cord Injury. Craig H. Neilsen Foundation. Co-Investigator (Grampurohit, PI). 04/30/2022-04/29/2025. \$400,000.
- A Validation Study of Remote Testing of Physical Function in Spinal Cord Injury. Craig H. Neilsen Foundation. Co-Investigator (Grampurohit, PI). LOI accepted, full application due 11/16/2021
- The Impact of Injustice Appraisals on Psychosocial Outcomes Following Spinal Cord Injury: A Longitudinal Study. Department of Defense. TJU Principal Investigator (Sub-award University of Minnesota, Moden K, PI). Period of Performance: 09/30/2021 – 09/29/2024
- R01 NS111113-01A1. Development of an MRI Template & Neuroimaging Biomarkers of the Pediatric Spinal Cord, National Institute Neuroscience and Ophthalmic Imaging Technology (NINOIT), Co-Investigator. (Mohamed F\Krisa L, Principal Investigators). 03/15/2020-01/31/2025
- Development of normative spine range of motion in female youth aged 10-17. Pediatric Spine Foundation (2019-2021). Principal Investigator, \$100,000. 09/2020-09/2022
- Validation of the SCI-FI Performance-by-Observation Measure. Craig H. Neilsen Foundation 597640 (2019-2022), Principal Investigator \$600,000.

## COMPETITIVE RESEARCH AWARDS- COMPLETED/CLOSED

- The Occupational Performance Coaching Model: A Feasibility Study. Craig H. Neilsen Foundation 533863 (2018-2020), Principal Investigator, (\$200,000).
- Development of the PedsQL SCI Module. Craig H. Neilsen Foundation (2018-2021), Consultant, Vogel LC, PI.
- Development of Items for Assessment of Infants and Children in the ICU. Small Business Technology Transfer Application, Consultant (Jette A, Principal Investigator).
- The Pediatric Measure of Participation: A staging and Replenishment Study. Shriners Hospitals for Children 71003 (2016-2018 – NCE through to 2019), Principal Investigator, (\$389,000)
- Metal Artifact Characterization in Spinal Cord injury, Craig H. Nelsen Foundation 385043 (2017-2019, Sub-Investigator, Mohamed F, PI.( \$300,000)
- Knowledge Translation of SCI Computer Adaptive Tests and Short Forms. Craig H. Neilsen Foundation, Quality of Life Sustainable Impact Projects, (2015-2018), Principal Investigator, \$300,000
- Pediatric Validation of the International SCI Data Sets. Rick Hansen Foundation. (2015-2018), Principal Investigator, \$200,000
- R01 NS079635 “Neuroimaging based on DTI as a biomarker for spinal cord injury in children.” National Institutes of Health (NIH), Acute Neural Injury and Epilepsy Study Section (ANIE) (2013-2018), Principal Investigator (multi-PI arrangement), \$1,929,382.
- Patient Reported Outcomes in Duchene Muscular Dystrophy. Department of Defense. Co-Investigator. (2015-2018), \$800,000
- Pediatric Multi-Center Study Evaluation of Notable SCI Outcomes Instruments, Craig H. Neilsen Foundation (2014-2016), Principal Investigator, \$600,000
- Linking Pediatric Computer Adaptive Tests with Adult Computer Adaptive Tests, Shriners Hospitals for Children (2014-2016), Principal Investigator, \$350,348.
- Development of a Pediatric Neurorecovery Scale, Craig H. Neilsen Foundation (2013-2015), Consultant, \$300,000, Sub-investigator
- A Multi-Center Study of Computer Adaptive Testing Platform for the Assessment of Physical Function. Shriners Hospitals for Children – 2013-2015, Principal Investigator, \$1,300,000.
- Computer Adaptive Testing Scientific Forum/Spine Care Grant, Orthopaedic Research and Education Foundation (2011-2012), Co-Investigator, \$40,000.
- A Computer Adaptive Testing Platform for the Assessment of Physical Function. Shriners Hospitals for Children (2009-2012), Principal Investigator, \$1,065,104.
- Development of Trajectories of Computer Adaptive Testing, Shriners Hospitals for Children (2010-2011), Principal Investigator, \$254,066.
- Imaging of the Cord as a Method of Evaluation and Classification of SCI in Children, Shriners Hospitals for Children, (2009-2011), Principal Investigator, \$306,585.
- Development of a Computer Adaptive Testing Platform for the Assessment of Quality of Life in Children with Spinal Cord Injury. Shriners Hospitals for Children (2007-2010), Principal Investigator, \$768,268.
- The International Standards for Neurological Classification of Spinal Cord Injury: Reliability Testing and Sensitivity to Change When Applied to Children and Youth.

- Shriners Hospitals for Children (2006-2008), Principal Investigator, \$216,605.
- Prospective Comparison Between Vertebral Body Staple and Thoracolumbosacral Bracing in Treatment of Youth with Idiopathic Scoliosis. Shriners Hospitals for Children (2006-2007), Co- Investigator, \$150,000.
- A Computer Adaptive Testing Platform for the Assessment of Physical Functioning of Children with Cerebral Palsy. Shriners Hospitals for Children (2006-2008), Co- Investigator, \$499,402.
- Outcomes of Treatment for Progressive Spine Deformity in Pediatric SCI. Shriners Hospitals for Children (2005-2006), Co-Investigator, \$156,000.
- Cross-Sectional Study of Participation and Needs of Children with Cerebral Palsy. Shriners Hospitals for Children (2005-2008), Co-Investigator, \$900,000.
- Cycling with Electrical Stimulation to Improve Health and Fitness of Children with Spinal Cord Injuries. Shriners Hospitals for Children (2004-2006), Co-Investigator, \$1,018,150.
- Prospective Comparison of the Biceps to Triceps and Deltoid to Triceps in Children with Spinal Cord Injury. American Hand Society (1999-2003), Investigator, \$165,000.
- Functional Electrical Stimulation in Children with Spinal Cord Injury and Cerebral Palsy, Shriners Hospitals for Children (1996-2004), Co-Investigator, \$10,419,219.

#### RESEARCH AWARDS, SUBMITTED, NOT FUNDED

- Development and Validation of Multiparametric Imaging Biomarkers for Spinal Cord Injury. National Institutes of Neurological Disorders and Stroke (NINDS). Principal Investigator, Submitted March 5, 2019.
- Restoring upper Extremities via Stimulation Therapy enabling Optimal Rehabilitation Efficacy (RESTORE), National Institute of Neurologic Disorders and Stroke. Multi-PI Arrangement, Mortiz C & Mulcahey MJ. Submitted Nov. 5, 2019
- Feasibility Testing of the Motor Activity Profile (MAP): Discovering a Path to Objective Measurement of Motor Function. National Institute of Disability, Independent Living and Rehabilitation Research (NIDILRR). Co-Investigator. (Graves D, Principal Investigator). Submitted Feb. 12, 2019
- Spinal Cord Injury in the Pediatric Population - A Norwegian and multinational study. The Norwegian Regional Health Authorities. Co-Investigator. Submitted Sept. 5, 2018.

#### INTRAMURAL RESEARCH AWARDS – ACTIVE

- Neurosleeve for Improving Upper Limb Function in Children with Neurologic Impairment. Jefferson Pediatric Research Award. Co-Investigator, with Srruya M. \$50,000.
- Neurotechnologies for the Neurologically Impaired Upper Limb. Dean’s Transformative Science Award. Principal Investigator, with Drs. Grampurohit N, Serruya M, Napoli A, Fedorczyk J. \$37,800
- Provost Award. Outcomes and Measurement Dept. Start-up. August 2019, \$50,000

#### INTRAMURAL RESEARCH AWARDS – COMPLETED/CLOSED

- Provost Award. The Philadelphia SCI Consortium Meeting. May 18, 2018, with Steve R. Williams, MD. \$30,000,
- Screening for impairments in executive function in healthy older adults in a busy spine

practice. JCHP Dean's Award (2015-2016), Investigator, \$20,000.

- Scoping review of participation measures. JCHP Dean's Award (2015-2016), Co-Investigator, \$18,000.

#### INTRAMURAL RESEARCH AWARDS – NOT FUNDED

- The Cerebral Palsy Profile of Health and Function. Jefferson Pediatric Research Award. Principal Investigator, With M. Wade Shrader, MD. \$50,000.
- Coaching Mothers of Children with Neurodiversity. Jefferson Pediatric Research Award, Principal Investigator, with Wendy Ross, MD. \$50,000.

#### UNRESTRICTED RESEARCH AWARDS – ACTIVE

- Development of Normative Spine Range of Motion Values for Girls Aged 12-17. Pediatric Spine Foundation, \$50,000.

#### UNRESTRICTED RESEARCH AWARDS- COMPLETED/CLOSED

- Cognitive Testing of the SAQ with Typically Developing Youths and Youths with Idiopathic Scoliosis, DePuy Spine (2010), Principal Investigator, \$27,500.
- Pilot Investigation of the Usefulness of Computer Adaptive Testing to Measure Physical Functioning in Children with Spine Impairments. Synthes Spine (2007), Principal Investigator, \$75,000.
- Computer Adaptive Testing for Children with Spinal Impairments: Pilot Study. Synthes Spine (2006-2007), Principal Investigator, \$125,000.

#### EDUCATIONAL AND QUALITY OF LIFE GRANT AWARDS- NON-COMPETTIVE

- WeeStep – Development of an eLearning module on pediatric application of the International Standards for Neurological Classification of SCI (2011). Shriners Hospital for Children, Principal Investigator, \$20,000
- International Tetraplegia Meeting: Access to All Through Instant Archive TM. Craig H. Neilsen Foundation (2007), Principal Investigator, \$20,000.
- The 9 International Conference of Upper Limb Surgery in Tetraplegia. Shriners Hospitals for Children (2006), Principal Investigator, \$20,000.
- Howard H. Steel Conference: Injuries and Dysfunction of the Spinal Cord in Children. Shriners Hospitals for Children (2006), Principal Investigator, \$20,000.