

CURRICULUM VITAE

Teresa Jacobson Kimberley, PhD, PT, FAPTA
United States of America

PROFESSIONAL ADDRESS

School of Health and Rehabilitation Sciences
MGH Institute of Health Professions
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IDENTIFYING INFORMATION

Education

| Degree | Institution | Date Degree Granted |
|-----------------------------------|-----------------------------------------------------------------------------------------------|----------------------------|
| B.S. | University of Minnesota, Minneapolis, MN Physical Therapy | 06/1994 |
| Ph.D. | University of Minnesota, Minneapolis, MN Rehabilitation Science, Minor: Neuroscience | 12/2002 |
| Visiting Distinguished Scholar | University of Technology Sydney Sydney, NSW, Australia Neuromodulation | 2016 |

Certifications, Licenses

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| Minnesota Board of Physical Therapy, License #5459 | 07/1994-present |
| Massachusetts Board of Physical Therapy #23598 | 07/2018-present |

Academic Appointments

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| Director of PhD Program in Rehabilitation Science MGH Institute of Health Professions, School of Health and Rehabilitation Science, Boston, MA | 07/19/2021-present |
| Director of PhD Program in Rehabilitation Science, <i>Interim</i> MGH Institute of Health Professions, School of Health and Rehabilitation Science, Boston, MA | 09/2020-07/2021 |
| Professor, MGH Institute of Health Professions, School of Health and Rehabilitation Science | 09/01/2017-present |

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| Department of Physical Therapy, Boston, MA | |
| Research Associate, Harvard Medical School Boston, MA | 02/01/2022-present |
| Research Staff, Spaulding Rehabilitation Hospital Boston, MA | 04/01/2018 - present |
| Research Staff, Massachusetts General Hospital Department of Neurology Core Faculty, Center for Neurotechnology and Neurorecovery | 09/15/2018-present |
| Distinguished Visiting Scholar, University of Technology Sydney Division of Physiotherapy, Graduate School of Health Sydney, NSW, Australia | 01/2016-07/2016 |
| University of Minnesota, Twin Cities Campus, Department of Rehabilitation Medicine, Divisions of Physical Therapy and Rehabilitation Science | 07/2003-08/2017 |
| Associate Professor with tenure | 2012-2017 |
| Graduate Faculty, Senior member | 2003-2017 |
| Assistant Professor | 2003-2012 |
| University of Minnesota, Twin Cities Campus, Department of Biomedical Engineering, Graduate Faculty | 2014-2017 |
| University of Minnesota, Twin Cities Campus, Department of Neuroscience, Graduate Faculty | 2014-2017 |
| University of Minnesota, Twin Cities Campus, Department of Kinesiology, Graduate Faculty | 2007-2017 |

Clinical/Hospital Appointments

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| Director of Rehabilitation, St. Peter Community Hospital, St. Peter, MN | 02/1997-09/1998 |
| Staff Physical Therapist, Institute for Athletic Medicine, St. Paul, MN | 03/1995-12/1996 |
| Staff Physical Therapist, Courage Center, Minneapolis, MN | 06/1994-03/1995 |

Consulting/ Advisory Positions

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| Neurotrauma Sciences | 2022- |
| Helius Medical | 2022- |
| Eleusis Clinical Trial Advisory Board | 2021-22 |
| Elevian Pharmaceuticals Clinical Trial Advisory Board | 2021- |
| NIH, National Institute for Deafness and Communication Disorders (NIDCD) Advisory Panel on future research directions in laryngeal dystonia | 5/2019 |
| Stroke Rehabilitation Advisory Board, Acorda Pharmaceuticals | 2015 |
| Stroke Rehabilitation Advisory Consultant, MicroTransponder Inc. | 2011-16 |
| Stroke Functional Electrical Stimulation Consultant, Otto Bock Health Care | 2009 |

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| Dystonia Medical Research Foundation and National Institutes of Health, Advisory board member on research priorities for Focal Dystonia Rehabilitation Research | 2007 |
| Élan Pharmaceutical Company, Spasticity Advisory Board | 2001 |

Membership and Offices in Professional Organizations

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| American Heart Association, Stroke Interprofessional Health Committee | 2020-2022 |
| American Heart Association, Member | 2018-present |
| National Spasmodic Dysphonia Association, Member | 2012-present |
| Dystonia Coalition, Member | 2009-present |
| Society for Neuroscience, Member | 2003-present |
| Institute for Engineering in Medicine, UMN, Member | 2014-2017 |
| American Physical Therapy Association (#149928) Member, Section Member: neurology, research | 1993-present |
| Director of Research, Neurology Section | 2009-2013 |
| American Congress of Rehabilitation Medicine, Member | 2011-2013 |
| American Society of Neurorehabilitation, Member | 2015-present |

HONORS AND AWARDS FOR RESEARCH WORK, TEACHING, PUBLIC ENGAGEMENT, AND SERVICE

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| American Physical Therapy Association, Academy of Neurologic Physical Therapy Excellence in Research Award | 2022 |
| Catherine Worthingham Fellow of the American Physical Therapy Association | 2021 |
| Faculty Award for Excellence in Research, MGH Institute of Health Professions | 2019 |
| Distinguished Visiting Professor, University of Technology, Sydney | 2016 |
| Training in Grantsmanship for Rehabilitation Research (TIGRR) fellowship | 2015 |
| Outstanding Leadership and Service to the Neurology Section, American Physical Therapy Association | 2013 |
| University of Minnesota representative to Mid-Career Women in Medicine Faculty Professional Development Seminar. Austin, TX | 2013 |
| University of Minnesota, Graduate and Professional Student Assembly (GAPSA) <i>Outstanding Academic Adviser</i> | 2012 |
| Golden Synapse Award, Journal of Neurologic Physical Therapy. <i>For the most outstanding article published in JNPT.</i> | 2008 |
| Post-Professional Student Research Award, Neurology Section, American Physical Therapy Association | 2003 |
| Minnesota Medical Foundation Thorne Award for Outstanding | 2001 |

Achievement in the Area of Stroke

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| Foundation for Physical Therapy, Promotion of Doctoral Studies I Fellowship | 2000 |
| Named Scientist-in-training member of Stroke Council of American Heart Association, Stroke Association Division | 2000 |
| American Heart Association, Stroke Association Division, Young Investigator Award | 2000 |
| Outstanding Contributor and Employee of the Year, Institute for Athletic Medicine | 1996 |

Awards garnered by trainees under my advisement

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| American Council of Rehabilitation Medicine, Stroke Early Career Award Baothy Huynh, OTD (advisee) | 2022 |
| American Society for Neurorehabilitation Fletcher H. McDowell Award Isha Vora OT, PhD candidate (advisee) | 2022 |
| Mankin award for DPT student with high potential as clinical scholar Dan Humphrey, DPT | 2020 |
| Matthew Picard-Fraser, DPT | 2021 |
| Dr. David Krebs Doctoral Research Fund Award, MGH Institute of Health Professions Danielle Kline, PT, PhD candidate (advisee) Isha Vora, OT, PhD candidate (advisee) | 2020 |
| Promotion of Doctoral Studies (PODS) II Fellowship, American Physical Therapy Association Rebekah Summers, DPT (advisee) | 2018-2019 |
| Doctoral Dissertation Fellowship, University of Minnesota Rebekah Summers, DPT (advisee) | 2017-2018 |
| Rudolph A Ptak Fellowship, University of Minnesota Physical Therapy Rebekah Summers, BS (advisee) | 2016 |
| Postdoctoral Fellowship, MnDRIVE Cecilia Prudente, PhD, PT (mentee) | 2016-2017 |
| Clinical Research for Rare Diseases, National Institutes of Health, travel award Cecilia Prudente, PhD, PT (mentee) | 2016 |
| Dystonia Coalition travel award, Rebekah Summers (advisee) | 2016 |
| Best poster, 2nd Annual MN Neuromodulation Symposium for poster "Effect of rTMS and Sensorimotor Retraining in Focal Dystonia". | 2014 |

Rebekah Schmidt, BS (advisee)

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| Doctoral Summer Research Fellowship Clinical and Translational Science Institute, University of Minnesota Assessment of Strength, Fatigue and Recovery evoked by peripheral magnetic stimulation and transcranial magnetic stimulation Joyce Trost, PT (co-advisee) | 07/01/2013-08/30/2013 |
| Meritorious Poster, American Speech and Hearing Association Sharyl Samargia, SLP, PhD (advisee) | 2013 |
| American Association of University Women, Dissertation writing award Sharyl Samargia, SLP, PhD candidate (advisee) | 2013 |
| Sigma Xi Society award for undergraduate research Rebekah Schmidt, BS (undergraduate mentee) | 2012 |
| Neuromuscular Plasticity Scholar, University of Florida Michael Borich, DPT, PhD candidate (advisee) | 2010 |
| Dissertation Fellowship Award, University of MN for Michael Borich, DPT, PhD candidate (advisee) | 2009-2010 |
| Minnesota Speech Language and Hearing Association Dissertation Award for Sharyl Samargia, SLP, CCCP, PhD student (advisee) | 2009 |
| University of MN Block Grant Fellowship Michael Borich, DPT, PhD student (advisee) | 2008 |

RESEARCH AND SCHOLARSHIP

Grants and Contracts

Current

1. Role: Co-Principal Investigator (co-PI: Liu)
R21NS120186
National Institutes of Health (NIH): National Institute of Neurologic Disorders and
(NINDS)
DYT1 genotype- and phenotype-specific brain circuits in dystonia
09/01/2021-08/31/23
Direct costs: \$464,999
2. Role: Principal Investigator
NSDA Research Grant
National Spasmodic Dysphonia Association (NSDA)
Novel Application of rTMS in Abductor Laryngeal Dystonia
03/01/2021 – 02/27/2023
Direct Costs: \$45,000
3. Role: Principal Investigator

K24DC018603

National Institutes of Health (NIH): National Institute for Deafness and Communication Disorders (NIDCD)

The effects of neuromodulation on phonatory function in laryngeal dystonia

02/01/2021-01/31/2026

Direct Costs: \$196,438

4. Role: Principal Investigator

R01DC015216

National Institutes of Health (NIH): National Institute for Deafness and Communication Disorders (NIDCD)

Multimodal Assessment of Neurophysiology in Focal Dystonia

01/01/2017 - 12/31/2023

Direct Costs: \$1,581,144

Completed

1. Role: site-Principal Investigator

Study MT-St-03 Stroke

MicroTransponder Inc.

A Randomized Pivotal Study Assessing Vagus Nerve Stimulation (VNS) During Rehabilitation for Improved Upper Limb Motor Function after Stroke

(MicroTransponder's Vivistim System)

1/15/2018-12/31/2021 (projected)

Direct Costs: \$315,362

2. Role: Co-Principal Investigator (co-PI: Hochberg)

McCance Center for Brain Health, Scientific Projects to Accelerate Collaboration (SPARC)

Neurorecovery: The MGH CNTR/MGH-IHP/Spaulding Collaborative

1/01/20-12/31/2021

Direct Costs: \$150,000

3. Role: Co-Investigator (PI: Navarro De Lara)

American Heart Association, Inc.

The RF EEG cap: Enabling whole-head TMS/EEG/fMRI for treatment optimization and closed-loop applications

01/01/2022- 12/31/2023 (surrendered award due to receipt of conflicting award)

4. Role: site-Principal Investigator

Study MT-St-02 Stroke

MicroTransponder Inc.

A Randomized Pilot Study Assessing Vagus Nerve Stimulation (VNS) During Rehabilitation for Improved Upper Limb Motor Function after Stroke

(MicroTransponder's Vivistim System)

04/15/2015 – 8/19/2017

5. Role: Principal Investigator

Research Grant

National Spasmodic Dysphonia Association (NSDA)

Pathophysiology in Spasmodic Dysphonia: a combined fMRI and TMS study
03/01/2015-08/01/2017

6. Role: mentor (PI: Gillick)
K01HD078484-04
National Institutes of Health (NIH): Eunice Kennedy Shriver National Institute of Child Health and Human Development
Novel neuromodulatory intervention in the rehabilitation of pediatric hemiparesis
09/01/2014 – 07/01/2017

7. Role: Co-investigator
Magistro Family Research Grant (Gillick)
Foundation for Physical Therapy
Novel neuromodulatory interventions in pediatric hemiparesis
01/01/15-12/31/16

8. Role: Principal Investigator
R21DC012344-01
National Institutes of Health (NIH): National Institute for Deafness and Communication Disorders (NIDCD)
The Pathophysiology of Spasmodic Dysphonia: a TMS study
04/01/2012-12/31/2015

9. Role: Co-Investigator
Research Grant (Lowe)
Bob Allison Ataxia Research Center (BAARC)
Inexcitability of the muscle plasmalemma and strength loss in Duchenne Muscular Dystrophy
05/22/2015-06/22/2016

10. Role: Principal Investigator
NS067501 Dystonia Coalition Career Development Award
Primary funding through: Office of Rare Diseases Clinical Research Network, Funding provided by National Institute of Neurological Disorders & Stroke (NINDS) of the National Institutes of Health (NIH)
Determining the Efficacy of Synergistic Intervention with rTMS and Rehabilitation in Focal Hand Dystonia
06/01/2011-12/31/2013

11. Role: Co-Investigator
1D31HP70119-01 (Kane)
Department of Health and Human Services Administration (HRSA)
Minnesota Area Geriatric Education Center (MAGEC)
01/01/2008-12/31/2013

12. Role: Co-Investigator
1D31HP70119-01 (Kane)
Department of Health and Human Services Administration (HRSA)
Minnesota Area Geriatric Education Center (MAGEC)
01/01/2000-12/31/2005

13. Role: Principal Investigator
Investigator Initiated Research Grant
Dystonia Medical Research Foundation
rTMS in Focal Hand Dystonia
04/15/2008-04/14/2010

14. Role: Co-Investigator
Infrastructure investment Initiative (I3) (Engel, He, Lim, Olman, Sullivan, Thomas)
Office Vice President for Research, University of Minnesota
New infrastructure for campus-wide access to 3T MRI
01/01/2011-12/31/2016

15. Role: Co-Investigator
Pilot project grant (Lim)
Institute for Engineering in Medicine, University of Minnesota
Enhancing non-invasive neuromodulation in neurological and psychiatric disorders using a paired paradigm
01/09/2014-07/01/2015

16. Role: Co-Investigator
Community Collaboration Grant (Carey and Oddsson)
Clinical Translational Science Institute, University of MN
Real vs. Sham rTMS Combined with Conventional Therapy in Acute Stroke
01/01/2013-03/01/2015

17. Role: Principal Investigator
4090-9224-12 (Kimberley)
Minnesota Medical Foundation, Faculty Development Grant
Optimizing Neuromodulation to Increase Inhibition
01/01/2012-12/31/2013

18. Role: Principal Investigator
Research Grant
Minnesota Medical Foundation
Cortical mapping of sensory and motor areas in healthy individuals and individuals with focal hand dystonia
04/15/2008-04/14/2010

19. Role: Principal Investigator
Grant in Aid
University of Minnesota Graduate School
Reproducibility of fMRI in the Healthy and Stroke Population
01/01/2005-06/30/2007

Publications

Peer-Reviewed Publications

1. Dawson J, Engineer N, Cramer S, Wolf S, Ali R; O'Dell M, Pierce D, Prudente C, Redgrave J, Feng W, Liu C, Francisco G, Brown B, Dixit A; Alexander J; DeMark L, Krishna V, Kautz S, Majid A, Tarver B, Turner D, **Kimberley TJ**. Vagus Nerve

- Stimulation Paired with Rehabilitation for Upper Limb Motor Impairment Function After Ischemic Stroke: Sub-group Analysis of the VNS-REHAB Trial. *Neurorehab and Neurorepair*, 2022 DOI: 10.1177/15459683221129274
2. Kuo Y-L, Lin DJ, Vora I, DiCarlo JA, Edwards DJ, **Kimberley TJ**. Transcranial magnetic stimulation to assess motor neurophysiology after acute stroke in the United States: Feasibility, lessons learned, and values for future research. *Brain Stimulation* (2022), doi: <https://doi.org/10.1016/j.brs.2021.12.001>.
 3. Prudente CN, Chen M, Stipancic KL, Samargia-Grivette S, Goding GS, Green JR, **Kimberley TJ**. Effects of low-frequency repetitive transcranial magnetic stimulation in adductor laryngeal dystonia: a safety, feasibility, and pilot study. *Exp Brain Res* (2021). <https://doi.org/10.1007/s00221-021-06277-4>
 4. Stipancic KL, Kuo YL, Miller A, Ventresca H, Sterbad D, **Kimberley TJ**, Green JR. The effects of continuous oromotor activity on speech motor learning: speech biomechanics and neurophysiologic correlates. *Experimental Brain Research*, 2021. doi.org/10.1007/s00221-021-06206-5
 5. Trost JP, Chen M, Stark MM, Hodges JS, Richter S, Lindsay A, Warren G, Lowe DA, **Kimberley TJ**. Voluntary and magnetically evoked muscle contraction protocol in males with Duchenne muscular dystrophy: safety, feasibility, reliability, and validity. *Muscle and Nerve*, May 2021. doi.org/10.1002/mus.27323
 6. Dawson J, Liu CY, Francisco GE, Cramer SC, Wolf SL, Dixit A, Alexander J, Ali R, Brown BL, Feng W, DeMark L, Hochberg LR, Kautz SA, Majid A, O'Dell MW, Pierce D, Prudente CN, Redgrave J, Turner DL, Engineer ND, **Kimberley TJ**. Vagus nerve stimulation paired with rehabilitation for upper limb motor function after ischaemic stroke (VNS-REHAB): a randomised, blinded, pivotal, device trial. *Lancet*. 2021; 397(10284):1545-1553. doi: 10.1016/S0140-6736(21)00475-X. PMID: 33894832.
 7. Simonyan K, Barkmeier-Kraemer J, Blitzer A, Hallett M, Houde JF, **Kimberley TJ**, Ozelius LJ, Pitman MJ, Richardson RM, Sharma N, Tanner K, The NIH/NIDCD Workshop on Research Priorities in Spasmodic Dysphonia/ Laryngeal Dystonia. Laryngeal Dystonia: Consensus on terminology, pathophysiology, and research priorities. *Neurology*, 2021; 96(21): doi.org/10.1212/WNL.00000000000011922
 8. DiCarlo JA, Gheihman G, Lin DJ. Reimagining Stroke Rehabilitation and Recovery Across the Care Continuum: Results from a Design-Thinking Workshop to Identify Challenges and Propose Solutions, 2021. *Archives Physical Medicine and Rehabilitation*. 2021; 102(8) P1645-1657 doi.org/10.1016/j.apmr.2021.01.074
 9. Kline DK, Lin DJ, Cloutier A, Sloane K, Parlman K, Ranford J, Picard-Fraser M, Fox AB, Hochberg LR, **Kimberley TJ**. Arm Motor Recovery After Ischemic Stroke: A Focus on Clinically Distinct Trajectory Groups. *Journal of Neurologic Physical Therapy*, 2021. doi.org/10.1097/NPT.0000000000000350
 10. Dawson J, Engineer ND, Prudente CN, Pierce D, Francisco G, Yozbatiran N, Tarver BW, Casavant R, Kline DK, Cramer SC, Van de Winckel A, **Kimberley TJ**. Vagus Nerve Stimulation Paired with Upper-Limb Rehabilitation After Stroke: One-Year

Follow-up. *Neurorehabilitation and Neural Repair*, 2020; 34(7):609-615.
<https://doi.org/10.1177/1545968320924361>

11. Summers RLS, Chen M, MacKinnon CD, **Kimberley TJ**. Evidence for normal intracortical inhibitory recruitment properties in cervical dystonia. *Clinical Neurophysiology*, 2020; 131(6):1272-1279. doi.org/10.1016/j.clinph.2020.03.019
12. Chen M, Summers RLS, Prudente CN, Goding GS, Samargia S, Ludlow CL, **Kimberley TJ**. Transcranial magnetic stimulation and functional magnet resonance imaging evaluation of adductor spasmodic dysphonia during phonation. *Brain Stimulation*. 2020; 13(3):908-915. doi.org/10.1016/j.brs.2020.03.003
13. Dickie DA, **Kimberley TJ**, Pierce D, Engineer ND, Tarver BW, Dawson J. An Exploratory Study of Predictors of Response to Vagus Nerve Stimulation Paired with Upper-Limb Rehabilitation After Ischemic Stroke. *Scientific Reports*, 2019 Nov: 9(1), 1-8. doi.org/10.1038/s41598-019-52092-x
14. **Kimberley TJ**, Prudente CN, Engineer ND, Pierce D, Tarver B, Cramer SC, Dickie AD, Dawson J. Study protocol for a pivotal randomised study assessing vagus nerve stimulation during rehabilitation for improved upper limb motor function after stroke, *European Stroke Journal*, 2019: 4(4): doi.org/10.1177/2396987319855306
15. Summers R, Chen M, MacKinnon C, **Kimberley TJ**. Effect of cerebellar transcranial direct current stimulation in cervical dystonia. *Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation*, 2019: 12(2): 463-464. doi.org/10.1016/j.brs.2018.12.508
16. Engineer ND, **Kimberley TJ**, Prudente CN, Dawson J, Tarver B, Hays SA. Targeted vagus nerve stimulation for rehabilitation after stroke. *Frontiers in Neuroscience*, 2019 Mar: 13: 280. doi: 10.3389/fnins.2019.00280
17. **Kimberley TJ**, Pierce D, Prudente CN, Grancisco GE, Yozbatiran N, Smith P, Tarver, B, Engineer N, Dickie DA, Kline DK, Wigginton JA, Cramer SC, Dawson J. Vagus nerve stimulation paired with upper limb rehabilitation after chronic stroke: a blinded randomized pilot study. *Stroke*, 2018: 49(11): 2789. doi: 10.1161/STROKEAHA.118.022279
18. Summers RLS, Chen M, Hatch A, **Kimberley TJ**. Cerebellar Transcranial Direct Current Stimulation Modulates Corticospinal Excitability during Motor Training. *Frontiers Human Neuroscience*, 2018 Apr: 12: 118. doi: 10.3389/fnhum.2018.00118
19. Chen M, Lixandrao MC, Prudente CN, Summers RLS, **Kimberley TJ**. Short interval intracortical inhibition responses to low-frequency repetitive transcranial magnetic stimulation under multiple interstimulus intervals and conditioning intensities. *Neuromodulation*. 2018 Jun: 21(4): 368-375. doi: 10.1111/ner.12773
20. Prudente CN, Zetterberg L, Bring A, Bradnam L, **Kimberley TJ**. Systematic review of rehabilitation in focal dystonias: classification and recommendations. *Movement Disorders Clinical Practice*, 2018 Mar: 5(3): 237-245. doi: 10.1002/mdc3.12574

21. Pirio Richardson S, Altenmüller E, Alter K, Alterman RL, Chen R, Frucht S, Furuya S, Jankovic J, Jinnah HA, **Kimberley TJ**, Lungu C, Perlmutter JS, Prudente CN and Hallett M. Research Priorities in Limb and Task-specific Dystonias. *Frontiers Neurology* 2017;8;170. doi: 10.3389/fneur.2017.00170
22. **Kimberley TJ**, Body LA, Novak I, Fowler E, Larsen D. Stepping up to rethink the future of rehabilitation: IV Step considerations and inspirations. *Journal of Neurologic Physical Therapy* 2017 Jul;41 Suppl 3 Supplement, IV STEP Special Issue:S63-S72. doi: 10.1097/NPT.000000000000182. PubMed PMID: 28628598.

Kimberley TJ, Novak I, Boyd L, Fowler E, Larsen D. Stepping Up to Rethink the Future of Rehabilitation: IV STEP Considerations and Inspirations. *Pediatric Physical Therapy*. 2017 Jul;29 Suppl 3 Supplement, IV Step 2016 Conference Proceedings Supplement:S76-S85. doi: 10.1097/PEP.0000000000000435. PubMed PMID: 28654481.
23. Chen M, Summers RL, Goding GS, Samargia S, Ludlow CL, Prudente CN, **Kimberley TJ**. Evaluation of the Cortical Silent Period of the Laryngeal Motor Cortex in Healthy Individuals. *Frontiers in Neuroscience*. 2017 Mar 7;11:88. doi: 10.3389/fnins.2017.00088. eCollection 2017. PubMed PMID: 28326007
24. Frost KL, Chen M, Cassidy JM, Snow LM, Hodges JS, Van de Winckel AL, **Kimberley TJ**, Carey JR. Paired associative stimulation to suppress contralesional corticospinal excitability in three people with stroke using N of 1 crossover design. *Journal of Neurology and Translational Neuroscience*. 2017. 5(2):1084
25. Summers RL, Chen M, **Kimberley TJ**. Corticospinal excitability measurements using transcranial magnetic stimulation are valid with intramuscular electromyography. *PLOS One*. 2017;12(2). PMID:28231250, DOI 10.1371/journal.pone.0172152
26. Carey JR, Chappuis DM, Finkelstein MJ, Frost KL, Leuty LK, McNulty AL, Oddsson LIE, Seifert EM, **Kimberley TJ**. Importance and Difficulties of Pursuing rTMS Research in Acute Stroke: A Perspective. *Physical Therapy Journal*, 2017: 97:310–319 DOI: 10.1093/ptj/pzx005
27. Cassidy JM, Chu H, Chen M, **Kimberley TJ**, Carey JR. Interhemispheric inhibition measurement reliability in stroke: a pilot study. *Neuromodulation*, 2016: 19(8):838-846, DOI: 10.1111/ner.12459.
28. Dawson J, Pierce D, Dixit A, **Kimberley TJ**, Tarver RM, Hilmi O, McLean J, Forbes K, Kilgard M, Rennaker R, Cramer S, Walters M, Engineer N. Safety, Feasibility and Efficacy of Vagus Nerve Stimulation Paired with Arm Rehabilitation Following Ischaemic Stroke. *Stroke*, 2016; 47: 143-150 DOI: 10.1161/STROKEAHA.115.010477
29. Samargia S, Schmidt R, **Kimberley TJ**. Cortical silent period reveals differences between muscle tension dysphonia and adductor spasmodic dysphonia. *Neurorehabilitation and Neural Repair*, 30(3):221-232, 2016;1-12. DOI: 10.1177/1545968315591705

30. Chen M, Deng H, Schmidt RL, **Kimberley TJ**. Low frequency repetitive transcranial magnetic stimulation targeted to PMC followed by M1 modulates excitability differently from PMC or M1 stimulation alone. *Neuromodulation*, 2015 Aug 26. DOI:10.1111/ner.12337.
31. **Kimberley TJ**, Schmidt RL, Chen M, Dykstra D, Buetefisch CM. Mixed effectiveness of rTMS and retraining in the treatment of focal hand dystonia. *Frontiers Neuroscience*, 2015;9;385. DOI: 10.3389/fnhum.2015.00385.
32. Cassidy JM, Chu H, Anderson DC, Krach LE, Snow L, **Kimberley TJ**, Carey JR. A Comparison of Primed Low-Frequency Repetitive Transcranial Magnetic Stimulation Treatments in Chronic Stroke. *Brain Stimulation*, 2015. DOI: 10.1016/j.brs.2015.06.007.
33. **Kimberley TJ**, Borich MR, Schmidt RS, Carey JR, Gillick BT. Focal hand dystonia: individualized intervention with repeated application of repetitive transcranial magnetic stimulation. *Archives of Physical Medicine and Rehabilitation*, 2015;96(4);S122-S128. DOI:10.1016/j.apmr.2014.07.426.
34. Gillick BT, Krach LE, Feyma T, Rich TL, Moberg K, Menk J, Cassidy J, **Kimberley TJ**, Carey JR. Safety of primed repetitive transcranial magnetic stimulation and modified constraint-induced movement therapy in a randomized controlled trial in pediatric hemiparesis. *Archives of physical medicine and rehabilitation*. 2015: S104-S113. DOI:10.1016/j.apmr.2014.09.012.
35. Bradnam L, Frasca J, **Kimberley TJ**. Direct current stimulation of primary motor cortex and cerebellum and botulinum toxin A injections in a person with cervical dystonia. *Brain Stimulation*, 2014; 7(6);909-911. DOI: 10.1016/j.brs.2014.09.008.
36. Samargia S, Schmidt R, **Kimberley TJ**. Shortened cortical silent period in adductor spasmodic dysphonia: Evidence for widespread cortical excitability. *Neuroscience Letters*. 2014; 560C: 12-15. DOI: 10.1016/j.neulet.2013.12.007.
37. Deng H, **Kimberley TJ**, Durfee WK, Dressler BL, Steil C, Carey JR. Combined Statistical Analysis Method Assessing Fast vs. Slow Movement Training in a Single-Case with Cerebellar Stroke. *Physical Therapy*. 2013; 93(5): 649-660. DOI: 10.2522.ptj.20120121.
38. **Kimberley TJ**, Borich MR, Arora S, Siebner HR. Multiple sessions of low-frequency repetitive transcranial magnetic stimulation in focal hand dystonia: clinical and physiological effects. *Restorative Neurology and Neuroscience*. 2013; 31(5): 533-542. DOI:10.3233/RNN-120259.
39. **Kimberley TJ** & Pickett KA. Differential activation in the primary motor cortex during individual digit movement in focal hand dystonia vs. healthy. *Restorative Neurology and Neuroscience*. 2012; 30: 247-254. DOI:10.3233/RNN-2012-110183.
40. Borich MR & **Kimberley TJ**. Using actigraphy and transcranial magnetic stimulation to assess the relationship between sleep and visuomotor skill learning. *Restorative Neurology and Neuroscience*. 2012; 30: 81-90. DOI: 10.3233/RNN-2011-0622.

41. Olman CA, Pickett KA, Schallmo MP, **Kimberley TJ**. Selective BOLD responses to individual finger movements measured with fMRI at 3T. *Human Brain Mapping*. 2012; 33 (7): 1594-1606. DOI: 10.1002/hbm.21310
42. Borich MR & **Kimberley TJ**. Both sleep and wakefulness support consolidation of continuous, goal-directed, visuomotor skill. *Experimental Brain Research*. 2011; 214 (4): 619-630. DOI:10.1007/s00221-011-2863-0.
43. Borich MR, Furlong M, Holsman D, **Kimberley TJ**. Goal-directed visuomotor skill learning: off-line enhancement and the importance of the primary motor cortex. *Restorative Neurology and Neuroscience*. 2011; 29 (2): 105-113. DOI:10.3233/RNN-2011-0584.
44. **Kimberley TJ** & DiFabio RP. Visualizing the effects of rTMS in a patient sample: small N vs. group level analysis. *PLOS ONE*. 2010; 5 (12): e15155. DOI 10.1371/journal.pone.0015155.
45. **Kimberley TJ**, Samargia SA, Moore LG, Shakya JK, Lang CE. Comparison of amounts of practice during rehabilitation for traumatic brain injury and stroke. *Journal of Rehabilitation Research and Development*. 2010; 47 (9): 851-862. DOI:10.1682/JRRD.2010.02.0019.
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51. **Kimberley TJ**, Birkholz DD, Hancock RA, VonBank SM, Werth TN. Reliability of fMRI during a continuous motor task: assessment of analysis techniques. *Journal of Neuroimaging*. 2008; 18: 18-27. DOI: 10.1111/j.1552-6569.2007.00163.x.

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53. **Kimberley TJ**, Lewis SM, Strand C, Darst Rice B, Hall S, Slivnik P. Neural substrate of cognitive load changes during a motor task in subjects with stroke. *Journal of Neurologic Rehabilitation*. 2008; 32: 110-117. DOI: 10.1097/NPT.0b013e318183d716.
54. **Kimberley TJ**, Lewis, SL. Understanding neuroimaging. *Physical Therapy*. 2007; 87: 670- 683. DOI: 10.2522/ptj.20060149.
55. **Kimberley TJ**, Skraba L, Spencer J, VanGorp E, Walker S. Neural substrates for motor-imagery in severe hemiparesis. *Neurorehabilitation and Neural Repair*. 2006; 20 (2): 268-277. DOI: 10.1177/1545968306286958.
56. Carey JR, Anderson K, **Kimberley TJ**, Lewis SM, Auerbach EJ, Ugurbil K. fMRI Analysis of Ankle Movement Tracking Training in Single Subject with Stroke. *Experimental Brain Res*. 2004; 154: 281-290. DOI: 10.1007/s00221-003-1662-7
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58. **Kimberley TJ** & Carey JR. Neuromuscular Electrical Stimulation in Stroke Rehabilitation. *Minnesota Medicine*. 2002; 85 (4): 34-37. PMID: 11975052
59. Carey JR, **Kimberley TJ**, Lewis SM, Dorsey L, Rundquist P, Ugurbil K. Analysis of fMRI and Finger Tracking Training in Subjects with Chronic Stroke. *Brain*. 2002; 125: 773-788. doi.org/10.1093/brain/awf091

Chapters in Books

1. Chen M, Cline CC, Frost KL, **Kimberley TJ**, Nemanich ST, Gillick BT, Albott CS, Prudente CN, Lim KO, He B (2019). Advances and Challenges in Transcranial Magnetic Stimulation (TMS) Research on Motor Systems. In: Iaizzi PA (ed). *Engineering in Medicine: Advances and Challenges*. Academic Press, Cambridge MA, USA. Chapter 11
2. **Kimberley TJ**, Pickenbrock H, Zetterberg L (2018). Treatment strategies for the rehabilitation of dystonia. In: Dressler, Altenmüller and Krauss (eds). *Treatment of Dystonia*. Cambridge University Press, Cambridge UK. Chapter 49
3. **Kimberley TJ**, Skraba L, Spencer J, VanGorp E, Walker S (2005). Neural substrates for motor-imagery in severe hemiparesis. In: Gantchev N (ed) *From basic motor control to functional recovery IV*. Marin Drinov, Sophia, pp 230-237.

Editorial Activities

1. Smith LE, Annis-Young JE, **Kimberley TJ**. “Interprofessional collaborative Therapy: an old idea revisited”. PTJ, 2021;101-2. DOI: 10.1093/ptj/pzab241
2. **Kimberley TJ**, Dawson J. Response by Kimberley and Dawson Regarding Article, “Vagus Nerve Stimulation Paired With Upper Limb Rehabilitation After Chronic Stroke: A Blinded Randomized Pilot Study”. Stroke. 2019;50:e38. DOI: 10.1161/STROKEAHA.118.024405
3. **Kimberley TJ**, Schubert MC. Complex Cases: A Force for Change. J Neurol Phys Ther. 2017 Jul;41(3):143-144. doi: 10.1097/NPT.000000000000192. PubMed PMID: 28628547.

Presentations

Invited Oral Presentations at International Professional Meetings and Conferences

1. **Kimberley TJ**. Implementing VNS paired with rehabilitation for stroke recovery. Advances in Stroke Care. Digital Conference. Canadian Partnership for Stroke Recovery. Jan 2023
2. Kimberley TJ, Dawson J, Harvey R, O’Dell MW. Vagus Nerve Stimulation: to Implant or Not Debate. International Stroke Conference, American Heart Association. Dallas. February 2023
3. **Kimberley TJ**. Effects of Vagus nerve stimulation paired with rehabilitation for recovery of arm function post stroke: pivotal trial results. NORTHSTAR Seminar Series. Minneapolis, MN. November 2021.
4. **Kimberley TJ**. Recently cleared by the FDA—Novel Brain Stimulation treatments coming to a clinic near you. 4th International Brain Stimulation conference. Charleston, SC. December 2021
5. **Kimberley TJ**. Physical and Occupational therapy in focal dystonia. Summer School of Rehabilitation in Movement Disorders. Fresco Institute for Italy/ New York University. Vicenza, Italy, 06/29/2017-07/01-2017
6. **Kimberley TJ**, Body LA, Novak I, Fowler E, Larsen D. Step IV: Prevention, Prediction, Plasticity, and Participation, Summary Panelary speaker. Columbus Ohio, July 2016.
7. **Kimberley TJ**, Bradnam L. Can non-invasive brain stimulation improve dystonia? Western Sydney University. Penrith, NSW Australia. March 21, 2016.
8. **Kimberley TJ**. Clinical implications of non-invasive brain stimulation. Australia Physiotherapy Association. Sydney, NSW Australia. March 15. 2016.
9. **Kimberley TJ**. Non-invasive neuromodulation: implications for rehabilitation. University of Technology Sydney Graduate Schools of Health Distinguished Lecture. Sydney, Australia. June 1, 2016.

10. **Kimberley TJ.** 2nd Loss of inhibition as a New Concept for Rehabilitation. International Conference of Rehabilitation of Dystonia. Panelary speaker. Hannover, Germany May 4, 2016.
11. **Kimberley TJ.** The influence of physical therapy on brain activity. First International Conference on Rehabilitation of Dystonia: keynote presenter and panel member. Hannover, Germany. May 2013.

Invited Oral Presentations at National Professional Meetings and Conferences

1. Rodgers M, Thompson L, Segal R, **Kimberley TJ.** Research Funding Symposium Part 2: Perspectives on Research Mentoring. APTA Combined Sections Meeting (Virtual). February 2021. (2/17/2021: 7-7:30p Live QA).
2. Faulk G, **Kimberley TJ,** Lang C, Schubert M. Getting Published in JNPT: A Chat with the Editorial Board (NE-7367). APTA Combined Sections Meeting (Virtual). February 2021. (2/9/2021 8:00-8:30pm Live QA)
3. **Kimberley TJ.** Vagus Nerve Stimulation Paired with Rehabilitation for Upper Limb Recovery after Stroke: 1-Year Follow up Combined Sections meeting of the APTA. Denver, CO. February 2020.
4. **Kimberley TJ.** The role of neuromodulation in spasmodic dysphonia. National Spasmodic Dysphonia Association. Boston, MA, 4/27/2019.
5. **Kimberley TJ.** Driving brain changes with neuromodulation and rehabilitation. University of Southern California. Los Angeles, CA, 10/31/2018.
6. **Kimberley TJ.** Efficacy of rehabilitation in dystonia and opportunities for further research. Tyler's Hope Foundation. Gainesville, FL, 9/11/2018.
7. **Kimberley TJ.** Beyond the snapshot: spasmodic dysphonia and your brain. National Spasmodic Dysphonia Association. Nashville, TN. May 6, 2017.
8. Prudente C, **Kimberley TJ.** Research priorities in limb and task-specific dystonia. 7th Dystonia Coalition meeting. Rockville, MD, March 4, 2016.
9. Chen M, **Kimberley TJ.** Pathophysiology of Spasmodic Dysphonia: a combined TMS and fMRI study. National Spasmodic Dysphonia Association Research Workshop. Des Plaines, IL. April 29, 2016.
10. **Kimberley TJ.** Neuroanatomy for Physical Therapy. American Physical Therapy Association, Minneapolis, MN, September 2015.
11. **Kimberley TJ.** Physical Therapy for Spasmodic Torticollis. National Spasmodic Torticollis Association, New Orleans, LA, October 2012.
12. **Kimberley TJ.** Motor and non-motor benefits of rehabilitation in spasmodic torticollis. National Spasmodic Torticollis Association, New Orleans, LA, October 2012.

13. **Kimberley TJ.** Determining the efficacy of synergistic intervention in focal hand dystonia with rTMS and sensorimotor retraining. Fourth annual Dystonia Coalition Conference-National Institutes of Health, Rare Diseases Network, Chicago, IL, September 2012.
14. **Kimberley TJ.** The Role of Physical Therapy in Cervical Dystonia: limits of knowledge and recommendations for future. Second annual Dystonia Coalition conference: Conference on Research Priorities for Cervical Dystonia-National Institutes of Health, Rare Diseases Network, Atlanta, GA, October 2010.
15. **Kimberley TJ.** Current understanding of rehabilitation in focal dystonia. Second Dystonia Medical Research Foundation-National Institutes of Health, NINDS Workshop on Dystonia: Recent Advances and Future Directions, Bethesda, MD, June 2006.
16. **Kimberley TJ.** Neuromotor characterization in focal hand dystonia. Dystonia Medical Research Foundation, Atlanta, Georgia, September 2005.
17. Butler AJ, **Kimberley TJ**, Sullivan KA. Neuroimaging and Stroke Recovery. Combined Sections, American Physical Therapy Association, Neurology Section, New Orleans, LA, February 2005.

Invited Oral Presentations at Local and Regional Professional Meetings and Conferences

1. **Kimberley TJ**, Bakeman D. Looking Ahead: Advances in Stroke Rehabilitation. 17th Annual NorthEast Cerebrovascular Consortium. Remote Summit, 12/9/22.
2. Stipanovic KL, Kuo Y, Mille A, Ventresca HM, **Kimberley TJ**, Green JR. The effects of sustained oromotor activity for speech motor performance: Speech biomechanics and neurophysiologic correlates. Boston Speech Motor Control Symposium. Remote Convention, 06/18/2021.
3. **Kimberley TJ.** Using TMS to gain insights into laryngeal function and focal dystonias. Mass Eye and Ear. Boston, MA 11/12/2018
4. **Kimberley TJ**, Carey JC, Recovering from stroke, treatment guidelines and emerging therapies. Neurology update for Primary Care conference. Minneapolis, MN, March, 2017
5. Schmidt R, Chen M, Prudente C, **Kimberley TJ.** Neuromodulation and Dystonia: addressing abnormal neurologic findings. Center for Clinical Movement Science Research Day. Minneapolis, MN May 2015
6. Schmidt, R, **Kimberley TJ.** rTMS and retraining improves Self-perceived function in Focal Hand Dystonia. MN APTA Spring Conference. St. Paul, MN April 2015

7. **Kimberley, TJ.** Non-invasive neuromodulation for rehabilitation. University of MN, Department of Neuroscience, April 2014.
8. **Kimberley TJ.** Application of neuroimaging and neuromodulation in a focal dystonia model: implications for rehabilitation. University of MN, Rehabilitation Science Seminar, October 2013.
9. **Kimberley TJ.** How the emerging research in focal dystonias inform rehabilitation. Allina Health Systems, St. Paul, MN, November 2012.
10. **Kimberley TJ, Samargia S.** Too much or not enough: the science supporting dose in rehabilitation. Allina Health Systems, Minneapolis, MN, October 2010.
11. **Kimberley TJ, Nuckley D.** The use of student response systems as a tool to increase teaching effectiveness. University of MN, May 2010.
12. **Kimberley TJ, Borich MR, Pickett KA, Rust S.** Neuroanatomy review with clinical correlation. University of MN, December 2009.
13. **Kimberley TJ, Pickett KA.** 7th Bi-annual Minnesota Workshop on High Field Imaging, Spectroscopy, and MR Imaging of Brain Function. University of MN, October 2009.
14. **Kimberley TJ, Pickett KA.** 6th Bi-annual Minnesota Workshop on High Field Imaging, Spectroscopy, and MR Imaging of Brain Function. University of MN, October 2007.
15. Carey JR, **Kimberley TJ, Lojovich J.** Updates in Neuroplasticity: how current research applies to Neurorehabilitation. 7th Annual Jack Allison Memorial Lecture, November 2006.
16. **Kimberley TJ.** Neuroanatomy and Neurological Rehabilitation Continuing Education Series. University of MN, October-November, 2005.
17. **Kimberley TJ.** Botulinum Toxin as a Tool to Facilitate Cortical Reorganization in Subject with Stroke. University of MN, Neurology Grand Rounds, October 2004.
18. **Kimberley TJ.** Facilitating Brain Reorganization After Injury: Evidence from Rehabilitation Interventions. 5th Annual Brain Injury Conference, Health East, Minneapolis, MN, October 2004.
19. **Kimberley TJ.** Non-surgical Trends in Spasticity Management. University of MN, Community Continuing Education, August 2004.
20. **Kimberley TJ.** Cortical Plasticity, Future treatment implications. University of MN, Neurology Grand Rounds, October 2003.

Peer-Reviewed International Oral (Platform) Presentations at Professional Meeting

1. Kimberley TJ, Engineer N, Cramer S, Dawson J, Pierce D, Tarver B, Prudent C. Vagus Nerve Stimulation (VNS) Paired With Upper Extremity Rehabilitation In Chronic Stroke: Improvements In Wrist And Hand Impairment And Function [Oral presentation] #4766. International Stroke Conference, American Heart Association. Dallas Feb 2023
2. Wang Y, Wartman W, Vora I, Miles A, Huynh B, **Kimberley TJ**. (2023, February 18-22). *Effect of head positioning on TMS intensity: E-field modeling and validation* [Oral presentation]. 5th International Brain Stimulation Conference, Lisbon, Portugal.
3. Vora I, McKiernan S, Hochberg L, **Kimberley TJ**, Lin DJ. (2023, February 18-22). *Examining the relationship between corticospinal tract anatomy, physiology, and upper extremity motor function after acute stroke* [Poster presentation]. 5th International Brain Stimulation Conference, Lisbon, Portugal
4. **Kimberley TJ**, Liu C, Francisco G, Wolf S, O'Dell M, Bell K, Dixit A, Redgrave J, Feng W, Dawson J et al. Effects of VNS paired with rehabilitation for chronic upper limb recovery post stroke: cross-over response. FS4B.04. 4th International Brain Stimulation Conference. Charleston, SC, December 2021
5. Turner D, Dawson J, Liu C, Francisco G, Wolf S, O'Dell M, Bell K, Dixit A, Redgrave J, **Kimberley TJ**. Vagus Nerve Stimulation Paired with Upper Limb Rehabilitation after Chronic Stroke: Cross-Over Results from the VNS-Rehab Pivotal Trial. ACRM Annual Conference. Virtual, September 24-29, 2021
6. Summers RS, Hoffmann J, Plant M, Miller A, Moyer A, Gehrke M, Chen M, **Kimberley TJ**. Effect of cerebellar transcranial direct current stimulation in cervical dystonia. Combined Sections Meeting of the APTA. Washington DC. January 24, 2019
7. **Kimberley TJ**, Francisco, G, Yozbatiran N, Cramer S, Wolf S, Engineer N, Pierce, D, Tarver WB, Smith, P, Wigginton S, Prudente C, Dawson J. A Randomized Double-Blind Pilot Study Assessing Vagus Nerve Stimulation (VNS) During Rehabilitation for Improved Upper Limb Motor Function after Stroke (MT-St-02) – Long-Term follow-up. International Neuromodulation Society. Edinburgh, Scotland. May 30, 2017
8. Dawson J, Francisco G, Yozbatiran N, Cramer S, Wolf S, Engineer N, Pierce, D, Tarver WB, Smith P, Wigginton J, **Kimberley TJ**. A Randomized Blinded Study of Vagus Nerve Stimulation (VNS) During Rehabilitation for Improved Upper Limb Motor Function after Stroke (MT-St-02) – Follow-up through 90-days. International Neuromodulation Society. Edinburgh, Scotland. May 30, 2017
9. Dawson J, Francisco G, Yozbatiran N, Cramer S, Wolf S, Engineer, N, Pierce D, Tarver BW, Smith P, Wigginton J, **Kimberley TJ**. A Randomized Double-Blind Pilot Study Assessing Vagus Nerve Stimulation (VNS) During Rehabilitation for Improved Upper Limb Motor Function After Stroke. International Stroke Conference, Houston, Texas.
10. Dawson JD, Engineer N, Pierce D, **Kimberley TJ**, Tarver B, Dixit A, Walters M, Cramer S. Vagus Nerve Stimulation Paired with Rehabilitation Improves Upper Limb

- Recovery after Chronic Ischemic Stroke. 2192375. International Stroke Conference, Nashville, TN, February 2014. **Accepted for late breaking abstract*
11. **Kimberley TJ**, Zetterberg L. Current and emerging trends in physical therapy in dystonia. Second International Congress on Treatment of Dystonia, Hannover, Germany, May 2013.
 12. October 2012: Boyd LA, Borich MR, **Kimberley TJ**. How can brain imaging and stimulation inform rehabilitation? American Congress of Rehabilitation Medicine/ American Society of Neurorehabilitation International meeting, Vancouver, BC, Canada, October 2012: **selected as keynote address*
 13. **Kimberley TJ**, Skraba L, Spencer J, VanGorp E, Walker S. Neural substrates for motor imagery: a study with fMRI. IV Motor Control Conference MCC2005, Sophia, Bulgaria, September 2005.
 14. **Kimberley TJ**, Carey JR. Electrical stimulation on hand function recovery and cortical reorganization in subjects with stroke. 14th International World Conference in Physical Therapy, Barcelona, Spain, June 2003.

Peer-Reviewed National Oral Presentations of Educational Sessions

1. Wang Y, Daneshzand M, Vora I, Huynh B, Ackley K, Nummenmaa A, **Kimberley TJ**. (2022, August 18-19). *Coil matters for rTMS dosing: A pilot study using E-field modeling* [Oral presentation]. Brain and Human Body Modeling Conference, Boston, MA, USA.
2. **Kimberley TJ**, Francisco GE, Vora I, Yozbatiran N. Bringing Evidence-Based Paired Vagus Nerve Stimulation (VNS) Therapy to the Clinic. American Congress of Rehabilitation Medicine 2022 Annual Conference. Chicago, IL, November 2022.
3. Huynh, B, DiCarlo, JA, Vora, I, Ranford, J, Gochyyev, P, Lin, DJ, **Kimberley TJ**. (2022, November 8-11). Sensitivity to change and responsiveness of the Fugl-Meyer Assessment- Upper Extremity in individuals with moderate to severe acute stroke [Poster presentation]. American Congress of Rehabilitation Medicine, Chicago, IL.
4. **Kimberley TJ**, Wolf S. Applying the Evidence: The Emerging Role of Vagus Nerve Stimulation Paired With Stroke Rehabilitation. American Physical Therapy Association Combined Sections Meeting. San Antonio, TX, February 4, 2022.
5. Francisco GE, **Kimberley TJ**, Engineer N, Prudente C, Tarver BW, Pierce D, Dawson J. Vagus Nerve Stimulation Paired with Rehabilitation Decreases Impairment and Improves Upper Limb Function after Ischemic Stroke: Results of a Randomized, Controlled, Multi-Center, Phase III Trial. American Academy of Physical Medicine and Rehabilitation Annual Assembly. Nashville, TN, November 2021.
6. **Kimberley TJ**. How neuroimaging and neuromodulation can inform your rehabilitation plan now. 40th Annual Neurorehabilitation Conference on Traumatic Brain Injury, Stroke and Other Neurological Disorders. Cambridge, MA November 16, 2019

7. **Kimberley TJ**, Peterson D, Duncan R, Field-Fote E. Fake News: Error, Ethics and Evidence in Research Publishing. Combined Sections Meeting of the APTA. Jan 24, 2019.
8. Samargia S, **Kimberley TJ**. Neuromodulation: Harnessing Neuroplasticity with Brain Stimulation in Rehabilitation. American Speech Hearing Association. Boston, MA November 16, 2018
9. Carmel J, Perez M, Harel N, **Kimberley TJ**. Paired stimulation to strengthen spared synapses after neural injury. American Society for Neurorehabilitation. Baltimore, Maryland. November 10, 2017
10. **Kimberley TJ**, Prudente C, MacKinnon C, Gillick BT. Neuromodulation: Harnessing Neuroplasticity with Brain Stimulation and Rehabilitation. Combined Sections Meeting of the APTA, Neurology Section, San Antonio, Texas, February 2016
11. Borich MR, Furlong M, Holsman D, **Kimberley TJ**. Does Repetitive Transcranial Magnetic Stimulation (rTMS)-Induced Inhibition of the Primary Motor Cortex Following Visuospatial Motor Skill Training Affect performance? Combined Sections Meeting of the APTA, Neurology Section, San Diego, CA, February 2010.
12. Strand C, **Kimberley TJ**. Neural substrate of cognitive load changes in subjects with stroke. Minnesota APTA Conference, Minneapolis, MN, April 2008.
13. **Kimberley TJ**, Khandekar, G. Influence of motor imagery ability on SMA and pSMA cortical activation. Combined Sections Meeting of the APTA, Neurology Section, San Diego, CA, February 2006.
14. **Kimberley TJ**, Carey JR. EMG-triggered electrical stimulation on hand function recovery and cortical reorganization in subjects with stroke. Combined Sections Meeting APTA, Boston, MA, February 2003.
15. **Kimberley TJ**, Carey JR. EMG-triggered electrical stimulation on hand function recovery and cortical reorganization in subjects with stroke. Combined Sections Meeting of the APTA, Neurology Section, Boston, MA, February 2002.
16. Lenz AR, Schindler JD, Zaruba BJ, Carey JR, **Kimberley TJ**. Effects of caffeine on information processing and cortical activity in elderly women. Combined Sections Meeting of the APTA, Neurology Section, San Antonio, TX, February 2001.
17. Carey JR, **Kimberley TJ**, Lewis SM. Change in fMRI and hand function in a patient with stroke following finger tracking. National Physical Therapy Conference, Anaheim, CA, June 2001.
18. **Kimberley TJ**, Carey JR, Lewis SM. fMRI Examination of cortical reorganization and hand function recovery following tracking training in subjects with stroke. Combined Sections Meeting of the APTA, Neurology Section, San Antonio, TX. February 2001.

Poster Abstract Presentations at Professional Meetings

International Poster Presentations

1. Vora, I., Lin, D.J., Kuo, Y.L., Banks, R.E., DiCarlo, J.A., Hochberg, L.R., **Kimberley, T.J.** Feasibility and Potential Value of TMS for Upper Extremity Motor Assessment at the Bedside During Acute Stroke Hospitalization. 4th International Brain Stimulation Conference, Charleston, South Carolina, December 2021.
2. **Kimberley TJ**, Smith P, Yozbatiran N, Dawson J, Prudente CN, Engineer N. Vagus nerve stimulation paired with rehabilitation improves upper limb recovery after chronic ischemic stroke. IV STEP, Columbus, Ohio, July 2016.
3. Prudente CN, Zhihao L, Schmidt R, **Kimberley TJ**, Sathian K, Jinnah HA. Functional imaging of isometric head rotation in cervical dystonia. IV STEP, Columbus, Ohio, July 2016.
4. Frost KL, Chen M, Cassidy J, Snow L, Van de Winckel A, **Kimberley TJ**, Carey JR. Investigating different interstimulus intervals of paired associative stimulation in people with stroke. IV Step conference, Columbus, Ohio, July 2016.
5. **Kimberley TJ**, Chen M, Schmidt R. Pathophysiology of spasmodic dysphonia: a combined TMS and fMRI study. First International Brain Stimulation Conference, Singapore, Singapore, February 2015
6. **Kimberley TJ**, Borich MB. Repeated application of rTMS in focal hand dystonia: a multiple-baseline, single-subject design. The 2nd North American Meeting on Transcranial Magnetic Stimulation and NeuroImaging in Cognition and Behavior, Quebec City, Quebec, Canada, June 2011.
7. **Kimberley TJ**, Borich MB, Siebner HR. Effect of repeated sessions of rTMS given during an active motor state in patients with focal hand dystonia. Movement Disorders Society 13th International Congress, Paris, France, June 2009.
8. Pickett K, **Kimberley TJ**, Konczak J. Kinaesthetic deficits in basal ganglia disorders: Psychophysical sensitivity thresholds and brain imaging data. Congress of the International Society of Electrophysiology and Kinesiology, Niagara Falls, Ontario, Canada, June 2008.

National Poster Presentations

1. Prudente C, Engineer N, Francisco G, **Kimberley TJ**, Wolf SL, Vora I, Yozbatiran N, Pierce D, Tarver WB. (2022, October 13-15). *Clinical Implementation of Vagus Nerve Stimulation Paired with Rehabilitation for Stroke* [Poster Presentation]. 2nd Academy of Neurologic Physical Therapy Annual Conference, Minneapolis, MN, United States.
2. Vora, I., Banks, R.E., McCauley, C., Gaudino, S.G., Link, A., Keilty, M.S., OT, Reilly, W.J., Kline, D.K., Asiello, J.D., **Kimberley, T.J.** Somatosensory Measures in Healthy and Neurologic Conditions: a Systematic Review. American Occupational

- Therapy Association INSPIRE, Annual Conference and Expo, San Antonio, Texas, April 2022.
3. Vora, I., Lin, D.J., Kuo, Y.L., Banks, R.E., DiCarlo, J.A., Hochberg, L.R., **Kimberley, T.J.** The Use of Transcranial Magnetic Stimulation for Upper Extremity Motor Assessment at the Bedside During Acute Stroke Hospitalization: A Feasibility Study. American Society for Neurorehabilitation Annual Meeting, St. Louis, Missouri, March 2022. **award for best clinical abstract*
 4. Huynh, B., Lin, D., DiCarlo, J., Gochyyev, P., Ranford, J., **Kimberley, T.J.** Sensitivity to change and responsiveness of the upper-extremity Fugl-Meyer in individuals with acute stroke. American Society for Neurorehabilitation Annual Meeting, St. Louis, Missouri, March 2022.
 5. Vora, I., Dawson, J., Liu, C.Y., Francisco, G.E., Wolf, S.L., O'Dell, M.W., Bell, K., Dixit, A., Redgrave, J., Turner, D.L., Feng, W., DeMark, L., Pierce, D., Prudente, C.N., Tarver, B., Engineer, N., **Kimberley, T.J.** Vagus Nerve Stimulation Paired with Upper Limb Rehabilitation After Chronic Stroke: Cross-over Results from the VNS-REHAB Pivotal Trial. Society for Neuroscience 50th Annual Meeting, Virtual Conference, November 2021.
 6. Vora, I., Lin, D.J., Kuo, Y.L., Banks, R.E., DiCarlo, J.A., Hochberg, L.R., **Kimberley, T.J.** Feasibility and Potential Value of TMS for Upper Extremity Motor Assessment at the Bedside During Acute Stroke Hospitalization. American Congress of Rehabilitation Medicine 98th Annual Conference, Virtual Conference, September 2021.
 7. Vora, I., Banks, R.E., McCauley, C., Gaudino, S.G., Link, A., Keilty, M.S., OT, Reilly, W.J., Kline, D.K., Asiello, J.D., **Kimberley, T.J.** Somatosensory Measures in Healthy and Neurologic Conditions: a Systematic Review. American Congress of Rehabilitation Medicine 98th Annual Conference, Virtual Conference, September 2021.
 8. Kline DK, Lin DJ, Cloutier A, Sloane K, Parlman KM, Ranford J, Picard-Fraser M, Fox AB, Hochberg LR, **Kimberley TJ.** Characteristics Associated with Distinct Trajectories of Arm Motor Impairment Recovery After Ischemic Stroke. Combined Sections meeting of the APTA. Denver, CO. February 2020.
 9. **Kimberley TJ,** Engineer ND, Prudente CN, Pierce D, Francisco GE, Yozbatiran N, Tarver B, Casavant R, Kline DK, Camer SC, Van de Winckel A, Dawson J. Vagus nerve stimulation paired with rehabilitation for upper limb recovery after stroke: 1-year follow up. Annual Meeting of the American Society of Neurorehabilitation. Chicago, IL. October 2019.
 10. Kuo YL, Chen M, Summers RL, Prudente C, Goding GS, Samargia S, **Kimberley TJ.** Excessive Neural Activation in Cerebellar Network during a Non-Symptomatic Task In Adductor Spasmodic Dysphonia: An fMRI and TMS Study. Annual Meeting of the American Society of Neurorehabilitation. Chicago, IL. October 2019.
 11. Erler KS, Cloutier A, Sloane K, Locascio JJ, Ranford J, Parlman K, Lam N, Fasoli S, **Kimberley TJ,** Finklestein S, Schwamm LH, Hochberg LR, Lin DJ. Functional consequences of upper extremity motor recovery in the first 90 days after stroke.

- Annual Meeting of the American Society of Neurorehabilitation. Chicago, IL. October 2019.
12. Summers RS, Chen M, McKinnon CD, **Kimberley TJ**. Assessing and modulating intracortical and transcallosal inhibition in cervical dystonia. Society for Neuroscience. San Diego, CA. November 2018
 13. Prudente CN, Chen M, Summers RL, Goding G, Samargia S, Ludlow C, **Kimberley TJ**. Cortical excitability is not different between healthy controls and people with laryngeal dystonia. Conference on Rare Disease, National Institutes of Health, Washington D.C., November 2016
 14. Summers RL, Chen M, Prudente CN, **Kimberley TJ**. Cerebellar tDCS Interferes with Cortical Excitability During a Motor Training Task. University of Minnesota Neuromodulation Symposium, April 14-15, 2016, Minneapolis, MN
 15. Chen M, Summers RLS, **Kimberley TJ**. Laryngeal motor cortex excitability assessment using transcranial magnetic stimulation. Minnesota Neuromodulation Symposium. Minneapolis, MN. April 2016.
 16. Chen M, **Kimberley TJ**. Can Short-Interval intracortical inhibition be modulated by low frequency repetitive transcranial magnetic stimulation. Minnesota Neuromodulation Symposium. Minneapolis, MN. April 2016.
 17. Chen M, Prudente CN, Summers RLS, **Kimberley TJ**. Functional Connectivity between TMS Hotspot and Task fMRI Activations in People with Spasmodic Dysphonia. The University of Minnesota Institute for Engineering in Medicine retreat conference. Minneapolis, MN. September 2016.
 18. Frost K, Chen M, Cassidy J, Van de Winckel A, Snow L, **Kimberley TJ**, Carey JR. Effect of different interstimulus intervals of paired associative stimulation in people with chronic stroke. Minnesota Neuromodulation Symposium. Minneapolis, MN. April 2015.
 19. **Kimberley TJ**, Chen M, Schmidt RL, Lim KO, Camchong J. TMS of laryngeal muscles to investigate cortical excitability in spasmodic dysphonia. Minnesota Neuromodulation Symposium. Minneapolis, MN. April 2015.
 20. Schmidt RL, Chen M, **Kimberley TJ**. Inherent Variability of TMS Outcomes in a Single Subject. Minnesota Neuromodulation Symposium. Minneapolis, MN. April 2015.
 21. **Kimberley TJ**, Chen M, Schmidt R. Pathophysiology of spasmodic dysphonia: a combined TMS and fMRI study. Society for Neuroscience, 47.17 Washington DC, November 2014.
 22. Chen M, Schmidt R, **Kimberley TJ**. Low frequency rTMS applied to PMC followed by M1 revealed greater cortical inhibition compared to PMC or M1 alone. Society for Neuroscience, Washington DC, November 2014.

23. Schmidt R, Chen M, Bueteifisch C, **Kimberley TJ**. Effect of rTMS and sensorimotor retraining in focal dystonia. Minnesota Neuromodulation Symposium, Minneapolis, MN, April 2014* *selected as best student poster*.
24. Chen M, Schmidt RL, Camchong J, Mueller BA, Lim KO, **Kimberley TJ**. Pathophysiology of Spasmodic Dysphonia: a combined TMS and fMRI study. Minnesota Neuromodulation Symposium, Minneapolis, MN, April 2014.
25. Chen M, Schmidt RL, Vik K, **Kimberley TJ**. Spasmodic dysphonia brain excitability assessment using thyroarytenoid muscle EMG responses to TMS over laryngeal motor cortex. Minnesota Neuromodulation Symposium, Minneapolis, MN, April 2014.
26. Golob L, Chen M, Schmidt RL, **Kimberley TJ**. Novel method to induce inhibition in primary motor cortex by repetitive transcranial magnetic stimulation. Minnesota Neuromodulation Symposium, Minneapolis, MN, April 2014.
27. Chen M, **Kimberley TJ**. Minimizing the TMS artifact from the MEP signal. Minnesota Neuromodulation Symposium, Minneapolis, MN, April 2013.
28. Moore M, **Kimberley TJ**. Comparing cortical excitability in focal dystonia using transcranial magnetic stimulation. Combined Sections Meeting of the APTA, San Diego, CA, January 2013.
29. Deng J, Bueteifisch CM, **Kimberley TJ**. The effect of rTMS and sensorimotor retraining in focal hand dystonia. Society for Neuroscience, San Diego, CA, October 2012.
30. Chapman E, Glesne J, Pickett KA, **Kimberley TJ**. fMRI During Individuated Finger Movements. Combined Sections Meeting of the APTA, Neurology Section, San Diego, CA, February 2010.
31. Haberman E, Smith J, Borich MR, **Kimberley TJ**. Effect of Repeated Sessions of rTMS given during an active motor state in patients with focal hand dystonia. Combined Sections Meeting of the APTA, Neurology Section, San Diego, CA, February 2010.
32. Borich MR, **Kimberley TJ**. Does rTMS-induced inhibition of the primary motor cortex following visuospatial motor skill training affect retention? Society for Neuroscience, Chicago, IL, 2009.
33. **Kimberley TJ**, Borich MR, Siebner HR. Effect of repeated sessions of rTMS given during an active motor state in patients with focal hand dystonia. Society for Neuroscience, Chicago, IL, 2009.
34. Samargia S, Borich MR, **Kimberley TJ**. Effect of rTMS in oromandibular dystonia. Society for Neuroscience, Chicago, IL, 2009.
35. Moore L, Shakya JK, Samargia S, Lang CE, **Kimberley TJ**. Comparison of the type and amount of activity in clinical practice between patients with CVA and TBI.

- Combined Sections Meeting of the APTA, Neurology Section, Las Vegas, NV, February 2009.
36. **Kimberley TJ**, Darst Rice B, Hall S, Slivnik, P, Strand C. Brain activation and motor performance during changes in cognitive load in subjects with stroke. Combined Sections Meeting of the APTA, Neurology Section, Nashville, TN, February 2008.
 37. **Kimberley TJ**, Khandekar G. Reliability of fMRI in subjects with Stroke. Combined Sections Meeting of the APTA, Neurology Section, Nashville, TN, February 2008.
 38. **Kimberley TJ**, Darst Rice B, Hall S, Slivnik, P, Strand C. Brain activation and motor performance during changes in cognitive load in subjects with stroke. Society for Neuroscience, San Diego, CA, October 2007.
 39. Borich MB, **Kimberley TJ**. The effect of 5-day rTMS treatment for focal hand dystonia. Society for Neuroscience, San Diego, CA, October 2007.
 40. **Kimberley TJ**, Birkholtz D, VonBank S. Reliability of Functional magnetic resonance imaging during a motor task in healthy subjects. Combined Sections Meeting of the APTA, Neurology Section, Boston, MA, February 2007.
 41. **Kimberley TJ**, Simura KJ, Flanders M. Neuromuscular dysfunction in focal hand dystonia. Combined Sections Meeting of the APTA, Neurology Section, San Diego, CA, February 2006.
 42. **Kimberley TJ**, Simura KJ, Flanders M. Neuromuscular dysfunction in focal hand dystonia. Society for Neuroscience Meeting, Washington DC, November 2005.
 43. **Kimberley TJ**, Skraba L, Spencer J, VanGorp E, Walker S. Neural substrates for motor-imagery in severe hemiparesis. III Step Conference; Linking Movement Science and Intervention, Salt Lake City, UT, July 2005.
 44. **Kimberley TJ**, Skraba L, Spencer J, VanGorp E, Walker S. Imagery in severe hemiparesis: A study with functional MRI. Combined Sections Meeting of the APTA, Neurology Section, New Orleans, LA, February 2005.

State Poster Presentations

1. Hochberg L, **Kimberley TJ**. The CNTR-IHP-Spaulling Neurorecovery Collaborative. 2nd Annual Neuroscience Day at Mass General, Boston, MA, September 2019
2. Kuo I, Liu H, Burns JA, Kline D, He R, **Kimberley TJ**. Multimodal Assessment of Neurophysiology in Focal Dystonia. 2nd Annual Neuroscience Day at Mass General, Boston, MA, September 2019.
3. Kline D, Peterson M, Kuo I, Vora I, Williams Z, Sloane K, Hochberg L, **Kimberley TJ**. A Pivotal Randomized Study Assessing Vagus Nerve Stimulation (VNS) During

Rehabilitation for Improved Upper Limb Function After Stroke. 2nd Annual Neuroscience Day at Mass General, Boston, MA, September 2019.

4. Chen M, Nelson BG, Mesfin Y, Markovitz CD, Camchong J, Mackinnon C, Carey JR, **Kimberley TJ**, Lim HH, Lim KO. Enhancing noninvasive neuromodulation in neurological and psychiatric disorders using a paired paradigm: progress towards clinical trials. The University of Minnesota Institute for Engineering in Medicine Retreat Conference, Minneapolis, MN, September 2014.
5. Sokolowski S, Wallner K, Weyer L, William T, Wooldridge C, Schmidt R, Chen M, **Kimberley TJ**. Low Frequency rTMS Applied to PMC Followed by M1 Revealed Greater Cortical Inhibition Compared to PMC or M1 Areas Alone. MNPTA Spring Conference, St. Paul, MN, April 2014.
6. Hayes S, Schmidt C, Stephens N, Tonsager K, Viele R, Schmidt R, Chen M, **Kimberley TJ**. Validation of fine-wire EMG for TMS and rTMS cortical modulation. MNPTA Spring Conference, St. Paul, MN, April 2014.
7. Schmidt R, Chen M, Deng H, Buetefisch CM, **Kimberley TJ**. Effect of rTMS and sensorimotor retraining in focal dystonia. Center for Clinical Movement Science Symposium, Minneapolis, MN, April 2013.
8. Moore M, Gress S, Lauer E, Mallas A, Meidl A, Meister N, Monroe D, Morlock C, Schlicht R, **Kimberley TJ**. Comparing cortical excitability in focal dystonias using TMS. APTA Spring Conference, Minneapolis, MN, April 2012.
9. Hayes L, Herron M, Ivanoff G, Kelly S, Borich M, **Kimberley TJ**. Short and long-term effects of repetitive transcranial magnetic stimulation in patients with focal hand dystonia. APTA Spring conference, Minneapolis, MN, April 2011.
10. Haberman EM, Smith JC, Borich MR, **Kimberley TJ**. Effect of repeated sessions of rTMS given during an “active motor state” in patients with focal hand dystonia. Minnesota APTA Spring conference, Minneapolis, MN, April 2009.
11. Holsman D, Furlong M, Borich M, **Kimberley TJ**. Does rTMS-induced inhibition of the primary motor cortex following visuospatial motor skill training affect performance? Center for Clinical Movement Science Research Day Symposium, April 2009.
12. Haberman EM, Smith JC, Borich MR, **Kimberley TJ**. Effects of rTMS on cortical excitability and handwriting measures in patients with focal hand dystonia. Center for Clinical Movement Science Research Day Symposium, April 2009.
13. Moore L, Shakya J, Samargia S, Lang C, **Kimberley TJ**. The type and amount of activities in clinical practice in patients with CVA and TBI. Minnesota APTA Spring Conference, Minneapolis, MN, April 2008.
14. Mundfrom S, Perkins A, Poepping J, Prochaska K, Borich M, **Kimberley TJ**. The effect of 5-day treatment of rTMS in focal hand dystonia. Minnesota APTA Conference, Minneapolis, MN, April 2008.

15. **Kimberley TJ**, Samargia S, Moore, L, Shakya J. Type and amount of activities in clinical practice in patients with CVA and TBI. Minnesota APTA Conference, Minneapolis, MN, April 2008.
16. **Kimberley TJ**, Skraba LL, Spencer JA, Van Gorp EA, Walker SR. Imagery in severe hemiparesis: a study with fMRI. Minnesota APTA Conference, Mankato, MN, October 2003.

Other Key Activities and Accomplishments

Proposal to the Minnesota Legislature to amend the Minnesota Data Practices Act for a Scholarly Exemption. Co-led efforts from University Senate committees: Faculty Consultative Committee, Research, Senate Committee on Faculty Affairs, Academic Freedom and Tenure to draft and seek Faculty Senate approval for amendment to exempt in progress scholarly work and confidential information from Minnesota Data Practice Act requests. 2016-2017

MnDRIVE (Minnesota's Discovery, Research and Innovation Economy) Brain Health group for Non-Invasive Neuromodulation, Executive Committee member. Worked with other executive committee member (Dr. Bin He and Dr. Kelvin Lim) to develop the interdisciplinary non-invasive brain stimulation lab, including hiring and training staff, purchasing, and developing policy and procedures. I also served as primary liaison to the Clinical and Translational Science Institute (CTSI)

News story feature:

WCVB ABC5: Boston-based study shows promise in helping stroke patients recover mobility, Dec 13, 2018

<https://www.wcvb.com/article/boston-based-study-shows-promise-in-helping-stroke-patients-recover-mobility/25412973>

Fox 9: *A new trial at the UMN is helping stroke victims regain their strength*

<http://www.fox9.com/news/66740376-story> Dec 30, 2015

WCCO radio, Roshini Rajkumar

Do we use all of our brain function? Aug 3, 2015

TEACHING AND CURRICULUM DEVELOPMENT

MGH Institute of Health Professions: 2017-present

Doctor of Physical Therapy

Role: co-instructor

PT 601: Patient/Client Management: Intro to Neuroplasticity

PT 709: Patient/Client Management: Upper Extremity Impairment

PT 710: Patient/Client Management: Balance

PT 711: Patient/Client Management: Acquired Brain Dysfunction

PT 712: Patient/Client Management: Degenerative Conditions Across the Lifespan

Rehabilitation Sciences

Role: Primary Instructor

HRS-952: Independent Study: Transcranial Magnetic Stimulation

University of Minnesota: 2003-2017

Doctor of Physical Therapy

Role: Instructor and Coordinator

PT 7000: Neurologic Theory and Neuroscience, 2 credits
PT 8193: Research Seminar, 6 credits
PT 8132: Research Seminar, 1 credit
PT 8131: Current Literature Seminar, 2 credits
PT 6282: Scientific Foundations II: Neuromotor Control, 3 credits
PMed 6000: Neuroanatomy Module, 3 credits

Doctor of Physical Therapy and Medical School

Role: Co-Instructor

NSc 6111: Medical Neuroscience and Neuroanatomy, 5 credits

Rehabilitation Science

Role: Instructor and Coordinator

RSc 8282: Problems in Human Movement, 4 credits
RSc 5294: Rehabilitation Science Independent Study, 1-2 credits
RSc 8100: Dissemination of Research Discoveries in Rehabilitation Science, 1 credit
RSc 8185: Problems in Rehabilitation Science, 2 credits
RSc 8100: Rehabilitation Science Independent study, 2 credits

Geriatric Physical Therapy Residency

Director of Research

2012-14, 2016-17

Contributing Instruction and Guest Lectures

PT 8131: Research Seminar, 1 contact hr
PT 8058: Human Anatomy for Physical Therapy: Human Brain and Central Nervous System introduction, 4 contact hrs
PT 6287: Clinical Neurorehabilitation: neuroanatomy and neuroplasticity for stroke, 2 contact hrs
PT 6293: Essentials of Rehabilitation Research. Lecture topics: Power, Reliability, Minimal clinically important difference, and single subject design, 6 contact hrs
PT 7010: Topics in Geriatric Research, critical appraisal of literature, 2 contact hrs
Occupational Therapy Program, Pathophysiology of Stroke, 2 contact hrs
PT 1001: Introduction to Physical Therapy, 1 contact hr
RSc 8100: PhD Rehabilitation Science Seminar guest lecture, 2 contact hrs
NSCI 4794W: Writing intensive directed research, 15 contact hrs
BME 4710: Directed Research, 10 contact hrs
Kin 3696: Directed Research, 10 contact hrs
PMed 5122: Neurological Rehabilitation, 2 contact hrs
PT 6280: Clinical Assessment; Lab Instructor, 4 contact hrs
PT 6283: Musculoskeletal Rehabilitation I; Lab Instructor, 6 contact hrs
PT 6231: Biomechanics; Lab Instructor, 2 contact hrs

Collaborative Efforts and Activities

Chair for Neuroscience and Neurorehabilitation curriculum review for Division of Physical Therapy accreditation, 2017

Committee Chair for Neuroscience and Neurorehabilitation Curriculum Review and Development for Program in Physical Therapy, Fall 2013-2015

Neuroplasticity Regional Course development team, American Physical Therapy Association Neurologic Section, Spring 2011-2013

Faculty Development Activities regarding teaching

Women and Science Harvard Medical School. Imposter Syndrome, MGH 2019

Participation in the Center for Teaching and Learning Peer Teaching evaluation, 2011

Developed, piloted, and trained faculty in the use of student response systems as a tool to increase teaching effectiveness, Spring 2010 – 2011

ADVISING AND MENTORING

Undergraduate Student Activities

[Undergraduate research opportunity program (UROP) or Multicultural Summer Research Opportunity (MSRP), Community Student Success Jobs Program – Brigham and Women's]

Claire Pernat, 2018 Tufts University

Hunter Rice, 2018 Columbia University

Ygor Oliveira, 2018, SSJP, Biology

Shania Gonzales, 2016, MSRP, Kinesiology

Katrina Olson, 2015-present, Department of Neuroscience

Ana Marija, 2012-2014, UROP

Laura Golob, 2011-2014, UROP, Summa Cum Laude thesis project, Physiology

Elias Fark, 2012-2013, UROP, Summa Cum Laude thesis project, Kinesiology

Allison McCarthy, 2012-2013, UROP, honors thesis project, Kinesiology

Kayla Vik, 2012-2013, UROP, thesis project Speech Language Hearing Science

Rebekah Schmidt, 2010–2012, UROP, honors thesis project, Kinesiology

Erik Hyland, 2009-2010, UROP

Esther Okoampa, 2005-2006, UROP, directed research

Graduate Student Activities

Master's Theses Directed

Danielle Kline, PT, DPT, MS 2018-2020, Rehabilitation Science, MGH Institute of Health Professions, Boston, MA

Gauri Kandahar, PT, MS, Motor imagery in stroke: a study with fMRI, 09/01/2004 – 06/01/2007

Master's Dissertation Committees

Wha Yoo, 2007-2010

Ashima Nagpal, 2004-2008

Doctoral Students Advised (*Academic advising and scientific advising*)

Baothy Huhn, MS, OTD, OTR/L, 2020-present, Rehabilitation Science, MGH Institute of Health Professions, Boston, MA

Isha Vora, MS, OTR/L, 2019-present, Rehabilitation Science, MGH Institute of Health Professions, Boston, MA

Joyceann Trost, PT, PhD (co-advisor with Dawn Lowe), 2013-2020, Rehabilitation Science, University of Minnesota. Current position: Director of Research Gillette Children's hospital. St. Paul, MN

Rebekah Schmidt, PT, DPT, PhD 2012-2018, Joint DPT/PhD degree Rehabilitation Science, University of Minnesota. Current position: Postdoctoral Fellow T32, CTSI, University of Minnesota, Minneapolis, MN

Sharyl Samargia, SLP, PhD: 09/01/2007 – 08/15/2012, Rehabilitation Science, University of Minnesota

Current position: Assistant Professor, Communication Sciences and Disorders, University of Minnesota, Duluth. Duluth, MN

Kristen Pickett, MS, PhD, 09/01/2007–07/15/2010 (co-advisee in Kinesiology, Dr. Juergen Konczak). Rehabilitation Science, University of Minnesota
Post-Doctoral fellowship, Washington University, St. Louis. Gammon Earhart, PT, PhD, mentor. Current position: Assistant Professor Department of Kinesiology, Program in Occupational Therapy, University of WI, Madison. Madison, WI.

Michael Borich, DPT, 09/01/2006 – 12/01/2010, Rehabilitation Science, University of Minnesota

Post-Doctoral Associate in Neurology, University of British Columbia, Vancouver, BC.

Lara Boyd, PhD, PT, mentor. Current position: Associate Professor Department of Physical Therapy, Emory University, Atlanta, GA.

Doctoral Committees Served on

Kaila Stipancic, MA, CCC-SLP, PhD (Rehabilitation Science, MGH Institute of Health Professions), *Chair*, examining committee, member thesis committee, 2018-2021

Catherine Adans-Dester, OT, PhD (Rehabilitation Science, MGH Institute of Health Professions), *Chair* examining committee, 2018-present

Christopher Joyce, DPT, PhD (Rehabilitation Science, MGH Institute of Health Professions), *Chair* examining committee, 2018-present

Kate Frost, BS, PhD 2014-2018 (Rehabilitation Science, University of Minnesota), *Chair*
Current position: Research Scientist, Boston Scientific, St. Paul, MN

Jessica Holst-Wolfe, BS, PhD 2014-2018 (Kinesiology, University of Minnesota),
postdoctoral fellow, University of MN, Minneapolis, MN

Jessica Cassidy, DPT, PhD 2012-2015 (Rehabilitation Science, University of Minnesota),
Chair Current position: Assistant Professor University of North Carolina, Chapel Hill

Joan Deng, MD, PhD 2009 – 2012, chair (Rehabilitation Science, University of Minnesota), chair, Current Position: Research Fellow, Stanford University, Stanford, CA

Bernadette Gillick, PT, MS, PhD 2009 – 2011 (Rehabilitation Science, University of Minnesota), chair. Current position: Associate Professor, University of Wisconsin, Madison, WI
Nupur Hajela, PhD 2007 – 2010 (Rehabilitation Science, University of Minnesota), Current Position: Assistant Professor, Fresno State, Fresno, CA
Ela Bhatt, PT, PhD 2003 – 2007 (Rehabilitation Science, University of Minnesota), chair, Current position: Associate Professor Cleveland Clinic, Cleveland, OH

Post-doctoral fellows supervised

Reuben Addison, PhD. Postdoctoral Fellow 2022-present. MGH Institute of Health Professions, Boston, MA

Kristen Ackley, CCC-SLP, PhD. Postdoctoral Fellow 2022-present. MGH Institute of Health Professions, Boston, MA

Russel Banks, CCC-SLP, PhD. Postdoctoral Fellow 2020-2021. MGH Institute of Health Professions, Boston, MA, current position: Research Scientist, Linus Health, Cambridge, MA.

Yi-Ling Kuo, PhD. Postdoctoral Fellow 2018-2020. MGH Institute of Health Professions, Boston, MA, current position: Assistant Professor, Department of Physical Therapy, SUNY Upstate, Syracuse, NY

Cecilia Prudente, PT, PhD, University of Minnesota: 2015-2017, current position: Clinical Research Scientist, Microtransponder, Inc

Mo Chen, PhD University of Minnesota: 2012 – 2014, current position: Research Scientist Non-Invasive Neuromodulation Laboratory, University of Minnesota, Minneapolis, MN

Huiqiong Deng, MD, PhD University of Minnesota: 2011-2013, current position: addiction medicine fellow, Department of Psychiatry and Behavioral Sciences, Stanford University, Stanford, CA.

Junior Faculty Mentoring

Jessica Cassidy, PT, DPT, PhD, 2021-present. Assistant Professor, The University of North Carolina at Chapel Hill: American Society for Neurorehabilitation junior mentoring program

Shasha Li, MD, PhD, 2020-present, Mass General Hospital, Harvard Medical School, Role: K23 co-mentor

David Lin, MD, PhD: 2019-present, Massachusetts General Hospital, Assistant Professor, Department of Neurology, Harvard Medical School, Role: K23 co-mentor

Ryan Solinsky, MD, PhD: 2019-present, Spaulding Rehabilitation Hospital, Assistant Professor, Department of Neurology, Harvard Medical School, Role: K23 co-mentor

Joanna Christodoulou, EdD: 2018-present, MGH Institute of Health Professions, Assistant Professor, Communication Disorders, Role: Research and Mentoring Program (RaMP) mentor

Susan Fasoli, OT, PhD: 2018-present, MGH Institute of Health Professions, Associate Professor, Occupational Therapy, Role: RaMP mentor
 Prudence Plummer, PhD, PT, BPhysio(Hons): 2019-present, MGH Institute of Health Professions, Professor, Physical Therapy, Role: RaMP mentor
 Sara Knox, PT, PhD, DPT, GCS, CEEAA: 2019-present, MGH Institute of Health Professions, Assistant Professor, Physical Therapy, Role: RaMP mentor
 Teresa Bisson, NCS, DPT: 2014-2017, U of MN, Instructor, Program in Physical Therapy, Role: faculty co-mentor
 Ann Van de Winkel, PhD, PT: 2014-2017, U of MN, Assistant Professor, tenure track, Program in Physical Therapy, Role: faculty mentor
 Bernadette Gillick, PhD, PT: 2013- 2017, Assistant Professor, tenure track, Program in Physical Therapy, Role: faculty co-mentor, KL2 co-mentor, NIH, NCMRR K-award mentor

Professional Student Activities

Professional students supervised

DPT Research and Academic Advisees

Sara Bowers (Capstone), MGH Institute of Health Professions, 2022-2024
 Kayla Ucciferri (Capstone), MGH Institute of Health Professions, 2022-2024
 Yuchao Wang (Academic Advisee), MGH Institute of Health Professions, 2021-2024
 Alexander Chau (Academic Advisee), MGH Institute of Health Professions, 2019-2022
 Kate Gragnolati (Academic Advisee), MGH Institute of Health Professions, 2019-2022
 Sarah Matthews (Academic Advisee), MGH Institute of Health Professions, 2019-2022
 Mackenzie Syron (Academic Advisee), MGH Institute of Health Professions, 2019-2022
 Diya Verma (Academic Advisee), MGH Institute of Health Professions, 2019-2022
 Stephen Su (Capstone), MGH Institute of Health Professions, 2019-2020
 Rebecca Langdon (Academic Advisee), MGH Institute of Health Professions, 2018-2021
 Kathryn Lawson (Academic Advisee), MGH Institute of Health Professions, 2018-2021
 Steve Le (Academic Advisee), MGH Institute of Health Professions, 2018-2021
 Zeno Lee (Academic Advisee and Capstone), MGH Institute of Health Professions, 2018-2021
 Vivian Leung (Academic Advisee), MGH Institute of Health Profession, 2018-2021
 Matthew Picard-Fraser (Guided Research Experience and Capstone), MGH Institute of Health Professions 2018-2021
 Daniel Humphrey (Capstone), MGH Institute of Health Professions 2018-2019
 Corinne Natale (Capstone), MGH Institute of Health Professions 2018-2019
 Meredith Conroy (Capstone), MGH Institute of Health Professions 2018-2019
 Laura Gengler, University of Minnesota 2014-2017
 Andrea Hatch, University of Minnesota 2014-2017
 Cassandra Heil, University of Minnesota 2014-2017
 John Heimdal, University of Minnesota 2014-2017
 Matthew Hirn, University of Minnesota 2014-2017
 Erin Horwath, University of Minnesota 2014-2017
 Jackie Jaspers, University of Minnesota 2014-2017
 Joycelyn Johnston, University of Minnesota 2014-2017
 Brad Keller, University of Minnesota 2014-2017
 Kory Lutz, University of Minnesota 2014-2017
 Sarah Hayes, University of Minnesota 2012-2015
 Chelsea Schmidt, University of Minnesota 2012-2015
 Sara Sokolowski, University of Minnesota 2012-2015

Nicholas Stephens, University of Minnesota 2012-2015
Kate Tonsager, University of Minnesota 2012-2015
Robin Viele, University of Minnesota 2012-2015
Karla Wallner, University of Minnesota 2012-2015
Lindsey Weyer, University of Minnesota 2012-2015
Tom Williams, University of Minnesota 2012-2015
Caitlin Wooldridge, University of Minnesota 2012-2015
Sandra Gress, University of Minnesota 2010-2013
Elizabeth Lauer, University of Minnesota 2010-2013
Meredith Lorig, University of Minnesota 2010-2013
Andrea Mallas, University of Minnesota 2010-2013
Andrea Meidl, University of Minnesota 2010-2013
Natasha Meister, University of Minnesota 2010-2013
Daniel Monroe, University of Minnesota 2010-2013
Matthew Moore, University of Minnesota 2010-2013
Chad Morlock, University of Minnesota 2010-2013
Rachel Oliver, University of Minnesota 2010-2013
Gussie Ivanoff, University of Minnesota 2008-2011
Travis Kierstead, University of Minnesota 2008-2011
Liz Kaufenberg, University of Minnesota 2008-2011
Anne Foust, University of Minnesota 2008-2011
Kris Gurda, University of Minnesota 2008-2011
Lindsay Hayes, University of Minnesota 2008-2011
Missy Herron, University of Minnesota 2008-2011
Sarah Kelly, University of Minnesota 2008-2011
Jake Haws, University of Minnesota 2008-2011
Kerri Kabela, University of Minnesota 2008-2011
Mary Furlong, University of Minnesota 2007-2010
Jared Glesne, University of Minnesota 2007-2010
Erin Haberman, University of Minnesota 2007-2010
Jenna Hammel, University of Minnesota 2007-2010
Emily Hogan, University of Minnesota 2007-2010
Dennis Holsman, University of Minnesota 2007-2010
Lisa Moore, University of Minnesota 2006-2009
Shannon Mundfrom, University of Minnesota 2006-2009
Ariel Perkins, University of Minnesota 2006-2009
Josefin Pettersson-Fagrell, University of Minnesota 2006-2009
Joseph Poepping, University of Minnesota 2006-2009
Kristina Prochaska, University of Minnesota 2006-2009
Brooke Darst, University of Minnesota 2005-2008
Stephanie Hall, University of Minnesota 2005-2008
Patricia Slivnik, University of Minnesota 2005-2008
Carolyn Strand, University of Minnesota 2005-2008
Sarah VonBank, University of Minnesota 2004-2007
Renee Hancock, University of Minnesota 2004-2007
Dana Ford, University of Minnesota 2004-2007
Teresa Werth, University of Minnesota 2004-2007
Laura Skraba, University of Minnesota 2003-2006
Jessica Spenser, University of Minnesota 2003-2006
Emily VanGorp, University of Minnesota 2003-2006
Sarah Walker, University of Minnesota 2003-2006

Residents Supervised

U of MN, Rehabilitation Medicine, Physiatry

Sakshi Kaul, 2016-17

Byron Eddy, 2012-13

U of MN, Geriatric Residency, Physical Therapy

Beth Anne Cooper, 2016-2017

Marina Chung, 2016-2017

Megan Connelly 2012-2013

Emily Pierce 2012-2013

David Gillette, 2011-2012

Other Mentoring Activities

Speech Language Pathology graduate program lab rotation

Cara Donohue 2016-2017

Neuroscience graduate student lab rotation

Maria Linn Fall 2016

IGERT fellow lab rotation, U of MN, Biomedical Engineering, Institute for Engineering in Medicine

Michelle Case, 2014

PROFESSIONAL SERVICE AND PUBLIC OUTREACH

Service to The Discipline/Profession/Interdisciplinary Area(s)

Design Thinking Workshop: *Reimagining Stroke Recovery Across the Continuum of Care* October 23, 2019
MGH Center for Neurotechnology and Neurorecovery, the NorthEast Cerebrovascular Consortium, and the American Stroke Association

Program committee member 2017-2022
American Society for Neuro Rehabilitation (ASNR)

Director of Research, Academy of Neurology Board of Directors 2009-2013
American Physical Therapy Association (APTA)

Academy of Neurology APTA Strategic Planning Meeting Co-Chair Spring 2011

Strategic planning co-chair for Research Agenda for Fall 2010
Academy of Neurology, APTA

Neuro Portal Team for PTnow, APTA 2010-2011

SCIENTIFIC ACTIVITIES

Editorships/Journal Reviewer Experience

Editorial Board, Physical Therapy Journal 01/2019-present

Associate Editor, Journal of Neurologic Physical Therapy 01/2015 – present
Guest editor of Special Issue on Rehabilitation for Rare and Complex Diseases
(July 2017)

Editorial Board member, Journal of Neurologic Physical Therapy 01/2013-12/2014

Associate Editor for Restorative Neurology and Neuroscience June 2011-2018

Ad hoc Invited Reviewer:

Extramural reviewer for Project Demonstrating Excellence 2007, 2008, 2009
(PDE), Union Institute and University.

Manuscript Reviewer (selected):

Archives of Physical Medicine and Rehabilitation, Medical Science Monitor, Brain,
Physical Therapy, Neural Rehabilitation and Neural Repair, Journal of Neuroimaging,
Neuroimage, Motor Control, Movement Disorders, Journal of Neuroscience, Human
Brain Mapping, Journal of Neurophysiology, Frontiers in Neuroscience

Review panels for external funding agencies, foundations, etc.

Scientific Review Panel:

Foundation for Physical Therapy Scientific Review Board member 01/01/2014-
12/31/2017

Ad hoc Grant Peer Review Panels:

National Institutes of Health (NIH) Center for Scientific Review 06/2021
Motor Function, Speech and Rehabilitation Study Section (MFSR) (FY22)

National Institutes of Health (NIH) Special Emphasis Panel 06/2020
National Institute of Neurologic Diseases and Stroke NST-1 (FY21)

National Institutes of Health (NIH) Special Emphasis panel for the Eunice Kennedy
Shriver National Institute of Child Health and Human Development (NICHD) Medical
Rehabilitation Research Resource. 11/ 2019

National Institutes of Health (NIH) Musculoskeletal, Oral and Skin Science (MOSS)
study section and Center for Scientific Review Special Emphasis Panel (R15 and SBIR)
06/2019

Foundation for Physical Therapy Scientific Review Board member 01/2019-04/2019

National Institutes of Health (NIH) Center for Scientific Review 02/2019
Motor Function, Speech and Rehabilitation Study Section (MFSR) (FY20)

Department of Defense, Congressionally Directed Medical Research 01/2019
Program Investigator Initiated Research Award (FY19)

National Institutes of Health (NIH), Eunice Kennedy Shriver National 07/2018
Institute of Child Health and Human Development (NICHD), Special
review panel for NCMRR Early Career Research Award (FY19)

Department of Defense, Congressionally Directed Medical Research 11/2017

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| Program Investigator Initiated Research Award (FY18) | |
| National Institutes of Health (NIH) Center for Scientific Review Motor Function, Speech and Rehabilitation Study Section (MFSR) | 04/2017 |
| The Stroke Association (United Kingdom) | 04/2017 |
| Canadian Institutes of Health, Collaborative Health Research projects | 11/2013 |
| Dystonia Coalition Award Committee | 06/2012, 06/2013 |
| Dystonia Medical Research Foundation grant review panel | 02/2013 |
| Department of Defense, Congressionally Directed Medical Research Program Investigator Initiated Research Award (FY12) | 11/2012 |
| Department of Defense, Congressionally Directed Medical Research Program Investigator Initiated Research Award (FY12). Investigator Initiated research award, Peer Reviewed Medical Research Program | 04/2012 |
| Dystonia Medical Research Foundation grant review panel | 02/2011 |

External Promotion and Tenure Review

| | |
|-----------------------------------------------|------|
| University of South Carolina | 2018 |
| Case Western Reserve University | 2016 |
| University of British Columbia, Vancouver, BC | 2015 |
| Georgia State University | 2014 |

Organization of conferences, workshops, panels, symposia

Second International Conference on Treatment of Dystonia. 2016, Hannover Germany
 Treatment of Dystonia. Board member May 2015, Hannover Germany
 First International Conference on Rehabilitation of Dystonia, Preconference session with
 International Conference on the Treatment of Dystonia, May 2013. Hannover Germany

Data Safety Monitoring Board

PI: Cullen, K. *Repetitive Transcranial Magnetic Stimulation for Adolescent Depression: Efficacy, Predictive Biomarkers, and Mechanisms* University of MN, Department of Psychiatry. Minneapolis, MN 2015-2019

Service to the University/Medical School/Department

MGH Institute of Health Professions

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| Peabody chair of nursing research, search committee | 2022 |
| Dean, School of Health and Rehabilitation Sciences, search committee | 2022 |
| Interim Director of PhD Program in Rehabilitation Science | 2020-2021 |

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| Co-Chair, PT Research Advisory Committee | 2020-present |
| OT Research Committee, member | 2019-present |
| Research Operations Committee, member | 2017-present |
| PhD Program Executive Committee, member | 2017-2020 |
| <i>Chair</i> | 2020-present |
| <i>Chair</i> , Faculty search Physical Therapy | 2018-2019 |
| Admissions Committee, Physical Therapy | 2018-present |
| Jacques Mohr Endowed Professor search, Nursing | 2018-2020 |

Massachusetts General Hospital

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| Core Faculty, Center for Neurotechnology and Neurorecovery | 2018-present |
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University of Minnesota

University-wide service

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| Academic Health Center, Office of Faculty Affairs | 2017 |
| Clinical tract for promotion development team, member | |
| University Senate, <i>co</i> -Chair, Academic Freedom and Tenure Committee | 2014–2017 |
| University Senate subcommittee: forum on Freedom of Expression in Education | 2016-2017 |
| Colin Campbell, chair | |
| Subcommittee to the University Senate, advisor to Provost Hanson on | 2016-2017 |
| Academic appointments with teaching functions policy review | |
| Institute for Engineering in Medicine, Minnesota Neuromodulation Symposium | 2015-2017 |
| Planning committee member | |
| 75 th Anniversary planning committee | 2013-2016 |
| Search committee member for Tenure/Tenure-track faculty position | 2013-2017 |
| Program in Physical Therapy | |
| Panelist, Higher Learning Commission accreditation visit: | 2015 |
| Criterion 2 addresses ethical and responsible conduct | |
| <i>Chair</i> , Search committee for Vice-Provost of Faculty Affairs | 2015 |
| MnDRIVE non-invasive neuromodulation lab executive committee | 2014–2017 |
| MnDRIVE Brain Conditions faculty search committee | 2014-2016 |
| <i>Chair</i> , Student progress committee, Program in Physical Therapy | 2014-2015 |
| Undergraduate Research Opportunity Program reviewer (fall and spring) | 2010-2014 |
| <i>Chair</i> , Compliance committee, Program in Physical Therapy | 2011-2015 |
| <i>Chair</i> , DPT Admissions committee, Program in Physical Therapy | 2009–2015 |
| <i>Chair</i> , Program marketing committee, Program in Physical Therapy | 2014 |
| <i>Chair</i> , Neuroscience and neurorehabilitation curriculum review committee, | 2013 |
| Program in Physical Therapy | |
| <i>Chair</i> , Search committee for Tenure/Tenure-track faculty position, | 2012-2014 |
| Program in Physical Therapy | |
| University Senate, Academic Freedom and Tenure Committee, member | 2011-2013 |
| Search committee for Associate Director Center on Aging | 2007 |
| CAPTE committee: <i>Chair</i> neurology syllabi review group, | 2009–2010 |
| co-chair mission statement development | |
| Administrative Assistant to DGS Search Committee member, | 2009 |
| Program in Physical therapy | |
| Minnesota Area Geriatric Education Center (MAGEC), Center on Aging | 2004–2007 |
| Admissions Committee member, Rehabilitation Science | 2003–2017 |
| Admissions Committee member, Program in Physical Therapy | 2003–2009, 2016-2017 |
| Award Committee member in Program in Physical Therapy | 2006–2008 |
| Curriculum review committee, <i>Chair</i> for neurologic content | 2005–2006 |

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| <i>Chair</i> , Award Committee in Program in Physical Therapy | 2003-2006 |
| Therapeutic Exercises Search Committee member, Program in Physical Therapy | 2004 |
| Biomechanics Faculty Search Committee member, Program in Physical Therapy | 2004 |
| Muscle Physiology Search Committee member, Program in Physical Therapy | 2004 |

Community Outreach Activities

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| Brain Awareness, Minneapolis Public Schools | 2004-2014 |
| Dystonia support group for Minnesota, speaker. St. Paul, MN | 2010 |
| <i>“Goosebumps: the neuroanatomy of fear”</i> , Science Museum of MN, St. Paul | 10/2009 |
| Advisor, MN Stroke Association, Minneapolis, MN | 2004–2005 |
| Preceptor, Phillips Neighborhood Free Clinic, Minneapolis, MN | 2004–2005 |
| Volunteer Physical Therapist, Volunteers for Peace, Bradford, England | 1998 |
| USA Table Tennis Team Physical Therapist | 1997-1998 |