

# CURRICULUM VITAE

## Sydney Y. Schaefer, PhD

### CONTACT INFORMATION

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Arizona State University  
Tempe, AZ 85287-9709

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**Lab URL:** schaefermrlab.org

### EDUCATION

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2010-2012 **Postdoctoral Associate, Program in Physical Therapy**, Washington University School of Medicine, St. Louis, MO

2008-2009 **Postdoctoral Fellow, Department of Biomedical Engineering**, Washington University in St. Louis, St. Louis, MO

2004-2008 **PhD, Department of Kinesiology**, Pennsylvania State University, University Park, PA

2002-2004 **MS, Department of Kinesiology**, Pennsylvania State University, University Park, PA

1998-2002 **BS, Sports Medicine**, Pepperdine University, Malibu, CA

### EMPLOYMENT

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2016- **Assistant Professor**, Neural Engineering and Neurorehabilitation, School of Biological and Health Systems Engineering, Arizona State University, Tempe, AZ

2016- **Director**, Motor Rehabilitation and Learning Laboratory, School of Biological and Health Systems Engineering, Arizona State University, Tempe, AZ

2012- **Adjunct Assistant Professor**, Department of Physical Therapy, University of Utah, Salt Lake City, UT

2012-2016 **Assistant Professor**, Human Movement Science. Department of Health, Physical Education and Recreation, Utah State University, Logan, UT

2012-2016 **Director**, Motor Rehabilitation and Learning Laboratory, Department of Health, Physical Education and Recreation, Utah State University, Logan, UT

### RESEARCH SUPPORT

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#### *Pending*

09/17-08/18 **Principal Investigator**. Administrative Supplement to Develop Research on Alzheimer's Disease and Alzheimer's-Related Dementias (ADRD) for K01 AG047926

Total cost: \$106,000  
Title: "Generalization of functional task-specific motor training in older adults"

10/17-09/19 **Principal Investigator.** National Institutes of Health Small Grant Program (R03)  
Total cost: \$154,500  
Title: "Using standardized visuospatial tests to predict motor training responsiveness in older adults"

### **Current**

06/16-01/19 **Co-Investigator.** (PI: Duff). Administrative Supplement to National Institute on Aging Research Project Grant (3R01AG045163-03S1)  
Total cost: \$43,469  
Title: "Cognitive Training and Practice Effects in MCI"

09/15-05/19 **Principal Investigator.** National Institute on Aging Mentored Research Scientist Development Award (K01 AG047926)  
Total cost: \$543,178  
Title: "Generalization of functional task-specific motor training in older adults"

### **Completed**

2015-2016 **Co-Investigator** (PI: Dibble). VPR Funding Incentive Seed Grant, University of Utah.  
Total cost: \$33,510  
Title: "Exogenous Dopamine Effects on Motor Learning in Parkinson Disease"

2014-2015 **Principal Investigator.** Marriner S. Eccles Foundation  
Total cost: \$5,000  
Title: "Training and Rehab for Motor Function"

2014 **Principal Investigator.** Center for Persons with Disabilities, Utah State University  
Total cost: \$5,000  
Title: "Support for a community-based stroke group"

2014 **Co-Investigator** (PI: Norton). Seed Program to Advance Research Collaborations (SPARC), VPR Seed Funding Programs, Utah State University  
Total cost: \$34,998  
Title: "Gray Matters: Lifestyles to Lower Alzheimer's Disease Risk Health Education Randomized Trial"

2013-2015 **Co-Investigator** (PI: Bressel). National Swimming Pool Foundation Research Grant  
Total cost: \$16,120  
Title: "Using a dual-task paradigm for assessing the effect of water immersion on brain activity"

2013 **Principal Investigator.** Research Catalyst (RC A28037), VPR Seed Funding Programs, Utah State University  
Total cost: \$19,961

Title: "Impact of normal aging on motor learning and transfer: How fast and how much?"

2010-2012 **Principal Investigator.** American Heart Association Postdoctoral Fellowship, Midwest Affiliate (AHA 10POST4140091)

Total cost: \$90,772

Title: "Movement context and its influence on function following stroke"

2010 **Postdoctoral Associate** (PI: Lang). National Institute of Child Health and Human Development (R01 HD055964)

Title: "Effects of movement context on hemiparetic grasping early after stroke"

2008-2009 **Postdoctoral Trainee** (PI: Mueller). National Institute of Child Health and Human Development (T32 HD007434 to the Program in Physical Therapy), Washington University

Title: "Training program in Movement Science"

2005-2008 **Predocotrual Trainee** (PI: Zarit, Willis). National Institute on Aging (T32 AG00048 to the Gerontology Center), Pennsylvania State University

Title: "Interdisciplinary training in Gerontology"

2004-2005 **Graduate Research Assistant** (PI: Sainburg). National Institute of Child Health and Human Development (R01 HD39311)

Title: "Interlimb differences in control of multijoint dynamics"

### ***Mentored***

\*graduate student \*\*undergraduate student

2017 **Primary Mentor.** (Student PI: Connor\*\*). Fulton Undergraduate Research Initiative (FURI), Ira A. Fulton Schools of Engineering, Arizona State University.

Total cost: \$1,400

Title: "Utilizing Motor Practice to Prime Motor Performance"

2016 **Primary Mentor.** (Student PI: Sullivan\*\*). Undergraduate Research and Creative Opportunities (URCO), Utah State University.

Total cost: \$1,000

Title: "Identifying Multiple Predictors of Physical Rehabilitation Outcomes"

2014-2016 **Primary Mentor.** (Student PI: Raikes\*). National Athletic Trainers' Association Research and Education Foundation Doctoral Research Grant #14DGP013

Total cost: \$2,500

Title: "Measurement of Sleep Quantity and Quality During Acute Concussion via Actigraphy"

2014 **Primary Mentor.** (Student PI: Hengge\*\*). Undergraduate Research and Creative Opportunities (URCO), Utah State University.

Total cost: \$979

Title: "Identifying a New Dual-Task Paradigm for Measuring Motor Learning"

## PEER-REVIEWED PUBLICATIONS (in reverse chronological order)

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\*graduate student \*\*undergraduate student

1. Mohabbati-Kalejahi N\*, Yazdi MAA, Fadel M, **Schaefer SY**, Boyd LA, Lang CE, Lohse KR. (under review). Streamlining science with structured data archives: Insights from stroke rehabilitation. *Scientometrics*.
2. **Schaefer SY**, Saba A\*\*, Baird J\*, Kolar MB\*, Duff K, Stewart JC. (in press). Within-session practice effects in the Jebsen Hand Function Test: Good or bad? *American Journal of Occupational Therapy*.
3. Duff K, Atkinson T, Suhrie K, Dalley B, **Schaefer SY**, Hammers D. (2017). Short-term practice effects in Mild Cognitive Impairment: Evaluating different methods of change. *Journal of Clinical and Experimental Neuropsychology*, 39(4): 396-407.
4. **Schaefer SY**, Duff K. (2017). Within-session and one-week practice effects on a motor task in amnesic Mild Cognitive Impairment. *Journal of Clinical and Experimental Neuropsychology*, 39(5):473-484.
5. Raikes AC\*, **Schaefer SY**. (2016). Sleep quantity and quality during acute concussion: A pilot study. *Sleep*, 39(12):2141-2147.
6. Fauth EB, **Schaefer SY**, Zarit SH, Ernsth-Bravell M, Johansson B. (2016) Beyond grip strength: Associations between fine motor performance in activities of daily living and cognitive ability in a non-demented sample of older adults. *Journal of Aging and Health*, Epub ahead of print. DOI: 10.1177/0898264316654674.
7. Lohse KR, **Schaefer SY**, Raikes AC\*, Boyd LA, Lang CE. (2016). Asking new questions with old data: The Centralized Open-Access Rehabilitation database for Stroke (SCOAR). *Frontiers in Neurology*, 7:153.
8. Raikes AC\*, **Schaefer SY**. (2016). Phasic electrodermal activity during the standardized assessment of concussion. *Journal of Athletic Training*, 51(7): 533-9.
9. Sainburg RL, **Schaefer SY**, Yadav V. (2016). Lateralized motor control processes determine asymmetry of interlimb transfer. *Neuroscience*, 334:26-38.
10. **Schaefer SY**, Hengge CR\*\*. (2016) Testing the concurrent validity of a naturalistic upper extremity reaching task. *Experimental Brain Research*, 234(1), 229-240.
11. **Schaefer SY**, Louder T\*, Foster S\*, Kohler B\*, Bressel E. (2016) Effect of water immersion on dual task performance: Implications for aquatic therapy. *Physiotherapy Research International*, 21(3): 147–154.
12. **Schaefer SY**, Duff K. (2015) Rapid responsiveness to practice predicts longer-term retention of upper extremity motor skill in non-demented older adults. *Frontiers in Aging Neuroscience*, 7:214.
13. Hayes HA\*, Hunsaker N, **Schaefer SY**, Shultz B, Schenkenberg T, Boyd LA, White A, Foreman B, Dyer P, Maletsky R, Dibble LE. (2015) Does dopamine replacement medication affect postural sequence learning in Parkinson Disease? *Motor Control*, 19(4):325-40.
14. **Schaefer SY**. (2015) Preserved motor asymmetry in late adulthood: Is measuring chronological age enough? *Neuroscience*, 294:51-9.

15. Pierce JR\*, Raikes AC\*, **Schaefer SY**. (2015) Is a visual-based balance assessment reliable under potentially distracting conditions? *Current Research: Concussion*, 2(2):43-48.
16. **Schaefer SY**, Dibble LE, Duff K. (2015) Efficacy and feasibility of functional upper extremity task-specific training for older adults with and without cognitive impairment. *Neurorehabilitation and Neural Repair*, 29(7):636–644.
17. Norton MC, Clark CJ, Tschanz JT, Hartin P, Fauth EB, Gast J, Dorsch TE, Wengreen H, Nugent C, Robinson D, Lefevre M, McClean S, Cleland I, **Schaefer SY**, Aguilar S. (2015) The design and progress of a multi-domain lifestyle intervention to improve brain health in middle-aged persons to reduce later Alzheimer's disease risk: the Gray Matters randomized trial. *Alzheimer's & Dementia: Translational Research & Clinical Interventions*, 1(1):53-62. DOI: 10.1016/j.trci.2015.05.001.
18. **Schaefer SY**, Patterson CB\*\*, Lang CE. (2013) Transfer of training between distinct motor tasks after stroke: Implications for task-specific approaches to upper extremity neurorehabilitation. *Neurorehabilitation and Neural Repair*, 27(7):602-612.
19. Lang CE, Bland MD, Bailey RR\*, **Schaefer SY**, Birkenmeier RL. (2013) Assessment of upper extremity impairment, function, and activity following stroke: Foundations for clinical decision making. *Journal of Hand Therapy*, 26(2):104-14.
20. **Schaefer SY**, Lang CE. (2012) Using dual tasks to test immediate transfer of training between naturalistic movements in a single session: A proof-of-principle study. *Journal of Motor Behavior*, 44(5):313-27.
21. **Schaefer SY**, DeJong SL\*, Cherry KM\*, Lang CE. (2012) Grip type and task goal modify reach-to-grasp performance in post-stroke hemiparesis. *Motor Control*, 16(2):245-64.
22. DeJong SL\*, **Schaefer SY**, Lang CE. (2012) The need for speed: Better movement quality during faster task performance after stroke. *Neurorehabilitation and Neural Repair*, 26:362-73.
23. **Schaefer SY**, Shelly IL\*\*, Thoroughman KA. (2012) Beside the point: Motor adaptation without feedback-based error correction in task-irrelevant conditions. *Journal of Neurophysiology*, 107:1247-56.
24. **Schaefer SY**, Mutha PK, Haaland KY, Sainburg RL. (2012) Hemispheric specialization for movement control produces dissociable differences in online corrections after stroke. *Cerebral Cortex*, 22:1407-19.
25. **Schaefer SY**, Haaland KY, Sainburg RL. (2009) Dissociation of initial trajectory and final position errors during visuomotor adaptation following unilateral stroke. *Brain Research*, 1298:78-91.
26. **Schaefer SY**, Haaland KY, Sainburg RL. (2009) Hemispheric specialization and functional impact of ipsilesional deficits in movement coordination and accuracy. *Neuropsychologia*, 47:2953-66.
27. Haaland KY, **Schaefer SY**, Knight RT, Adair J, Magalhaes A, Sadek J, Sainburg RL. (2009) Ipsilesional trajectory control is related to contralesional arm paralysis after left hemisphere damage. *Experimental Brain Research*, 196: 195-204.
28. **Schaefer SY**, Sainburg RL. (2008) Sequential processes for controlling distance in multijoint movements. *Journal of Motor Behavior*, 40:325-336.
29. **Schaefer SY**, Haaland KY, Sainburg RL. (2007) Ipsilesional motor impairments following stroke

reflect lateralization of movement control. *Brain*, 130:2146-2158.

30. Sainburg RL, **Schaefer SY**. (2004) Interlimb differences in control of movement extent. *Journal of Neurophysiology*, 92:1374-1383.

### **Peer-reviewed conference proceedings**

1. Villanueva IC, Raikes AC\*, Ruben N\*, **Schaefer SY**, Gunther J. (2014) The Use of Physiological Tools to Identify Changes in Affective Responses for Graduate Students Recently Admitted into a Scientific Discipline. *Proceedings of the 2014 IEEE Frontiers in Education Conference*. DOI:[10.1109/FIE.2014.7044316](https://doi.org/10.1109/FIE.2014.7044316)

### **RECENT REFEREED ABSTRACTS (out of 41, in reverse chronological order)**

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\*graduate student \*\*undergraduate student

1. **Schaefer SY**, Infurna FJ. (2017) Grip strength change over time predicts disability onset in older adults: Findings from HRS data. *IAGG World Congress of Gerontology and Geriatrics, Gerontological Society of America Annual Meeting*, San Francisco, CA.
2. Walter CS\*, Richards LG, **Schaefer SY**. (2017). Exploring the limits of motor skill transfer using functional task-specific training, Combined Sections Meeting, American Physical Therapy Association, San Antonio, TX.
3. **Schaefer SY**, Duff K, Hoffman JM. (2016) Relationship between beta-amyloid deposition and motor ability, but not motor memory, in patients with amnesic Mild Cognitive Impairment. *Society for Neuroscience Annual Meeting*. San Diego, CA.
4. Lumbreras TK\*\*, Walter CS\*, **Schaefer SY**. (2016). Selective retroactive interference between two different functional motor tasks: Effect of training order. *Society for Neuroscience Annual Meeting*. San Diego, CA.
5. Walter CS\*, Richards LG, **Schaefer SY**. (2016). Motor skill transfer of functional tasks: Is task similarity important? *Society for Neuroscience Annual Meeting*. San Diego, CA.
6. Song J, Lee K, **Schaefer SY**, Schweighofer N. (2016). Learning mechanism of nondominant single-joint elbow extension movements. *Society for Neuroscience Annual Meeting*. San Diego, CA.
7. Hayes HA, **Schaefer SY**, Dibble LE. (2016) "The feasibility and efficacy of a postural continuous tracking task: Exploring the dosing of postural task practice in Parkinson Disease." *IV Step Conference*, Pediatric and Neurology Sections of American Physical Therapy Association. Columbus, OH.
8. **Schaefer SY**, Nielsen JE\*\*, Lumbreras TK\*\*, Duff K. (2015) "Short-term practice effects predict in longer-term upper extremity motor learning in older adults with and without mild cognitive impairment." *American Society for Neurorehabilitation Annual Meeting*, Chicago, IL.
9. **Schaefer SY**, Hayes HA, Dibble LE. (2015) "The feasibility and efficacy of a postural continuous tracking task: Exploring the dosing of postural task practice in Parkinson Disease." *Society for Neuroscience Annual Meeting*. Chicago, IL.

10. Hengge CR\*\*, **Schaefer SY**. (2015) "Exploring a more functional task for studying upper extremity motor control." *Society for Neuroscience Annual Meeting*. Chicago, IL.
11. **Schaefer SY**, Dibble LE, Duff K. (2014) "Efficacy and feasibility of functional upper extremity task-specific training for older adults with and without cognitive impairment." *American Society for Neurorehabilitation Annual Meeting*, Washington DC.
12. Fauth EB, **Schaefer SY**, Zarit SH, Ernst-Bravell M, Johansson B. (2014) "Beyond Grip Strength: Associations between Fine Motor ADL Performance and Cognitive Ability in a Non-demented Sample of Older Adults." *Gerontological Society of America Annual Meeting*, Washington DC.
13. Lindauer BE\*, Fauth EB, **Schaefer SY**. (2013) "Generalization of motor learning between distinct functional upper extremity tasks." *Society for Neuroscience Annual Meeting*. San Diego, CA.
14. Raikes AC\*, Glenn K\*\*, **Schaefer SY**. (2013) "Typical electrodermal responses during SAC performance." *National Athletic Trainers' Association Annual Meeting & Clinical Symposia*, Las Vegas, NV.
15. **Schaefer SY**, Patterson CB, Lang CE. (2012) "Transfer of training between distinct motor tasks after stroke: Implications for a task-specific approach to upper extremity neurorehabilitation." *Society for Neuroscience Annual Meeting*. New Orleans, LA.

#### **INVITED RESEARCH TALKS**

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| 2017 | Translational Research in Rehabilitation Medicine Seminar Series, Division of Physical Therapy, Department of Rehabilitation Medicine, Emory University School of Medicine, Atlanta, GA                        |
| 2017 | Action Club Seminar Series, Department of Kinesiology, The Pennsylvania State University, University Park, PA  |
| 2017 | Coffee and Cognition Seminar Series, Department of Speech and Hearing Sciences, Arizona State University, Tempe, AZ  |
| 2016 | School of Biological and Health Systems Engineering, Ira A. Fulton Schools of Engineering, Arizona State University, Tempe, AZ   |
| 2016 | Physical Therapy Program, Department of Physical Medicine and Rehabilitation, University of Colorado Anschutz Medical Campus, Denver, CO   |
| 2015 | Dean's Invitation, College of Health, University of Utah, Salt Lake City, UT   |
| 2015 | Training in Rehabilitation Efficacy and Effectiveness Trials (TREET) T32 Program, Mrs. T.H. Chan Division of Occupational Science and Occupational Therapy, University of Southern California, Los Angeles, CA |
| 2015 | Centre National de la Recherche Scientifique (National Center for Scientific Research), Marseille, France  |
| 2014 | Annual World Aquatic Health Conference, Portland, OR   |
| 2013 | College of Textile Science and Technology (信州大学), Shinshu University, Ueda, Japan  |

- 2012 Division of Occupational Therapy, College of Health, University of Utah
- 2012 Department of Health, Physical Education and Recreation, College of Education and Human Services, Utah State University
- 2011 Program in Physical Therapy Staff, Washington University School of Medicine
- 2011 Research Seminar Series, Program in Physical Therapy, St. Louis University
- 2011 Movement Studies in Disability Graduate Program, School of Biological and Population Health Sciences, Oregon State University
- 2010 Research Seminar Series, Program in Physical Therapy, Washington University School of Medicine
- 2010 Department of Human Physiology, University of Oregon
- 2008 Action Club Seminar Series, Department of Kinesiology, Pennsylvania State University

### **SYMPOSIA PRESENTATIONS**

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- 2017 “Antecedents and Outcomes of Disability Across the Adult Lifespan,” IAGG World Congress of Gerontology and Geriatrics, San Francisco, CA.
- 2014 “Predicting Disability and Promoting Rehabilitation in Older Adults: Implications for Maintaining Cognitive and Physical Function,” Center on Aging Research Retreat, University of Utah, Salt Lake City, UT
- 2013 “Altering Task Conditions to Influence Motor Behavior After Stroke,” Combined Sections Meeting (CSM): *Neurology* Section, American Physical Therapy Association (APTA), San Diego, CA.
- 2011 “Reaching Control: Action and Sensation Nanosymposium”, Society for Neuroscience Annual Meeting. Washington, DC.
- 2011 Movement Science Research Retreat, Program in Physical Therapy, Washington University School of Medicine
- 2010 3<sup>rd</sup> Annual Symposium on Translational Neuroscience, Washington University School of Medicine
- 2010 6<sup>th</sup> Annual Postdoc Scientific Symposium, Washington University School of Medicine

### **TEACHING AND ADVISING EXPERIENCE**

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#### ***Coursework***

- 2017- Instructor and Course Coordinator, BME 598: Terminology and Application of Medical Models of Disability, Graduate Curriculum, School of Biological and Health Systems Engineering, Arizona State University



- 2015-2016 Instructor and Course Coordinator, PEP 7850: Advanced Aspects of Neurorehabilitation. Department of Health, Physical Education and Recreation, MS and PhD Curricula, Utah State University
- 2014-2016 Instructor and Course Coordinator, RHSCI 7900: Independent Study in Motor Control. Department of Physical Therapy, Rehabilitation Science PhD Curriculum, University of Utah
- 2013-2016 Instructor and Course Coordinator, PEP 6850: Neural Aspects of Rehabilitation. Department of Health, Physical Education and Recreation, MS Curriculum, Utah State University
- 2013-2016 Instructor and Course Coordinator, PEP 6300: Seminar in Human Movement Sciences. Department of Health, Physical Education and Recreation, MS Curriculum, Utah State University
- 2013-2016 Co-Instructor and Course Coordinator, FCHD 5550: Aging in a Welfare State (Sweden study abroad), Undergraduate and MS Curricula, Utah State University
- 2012-2016 Lecturer, PH TH 7200: Motor Control. Department of Physical Therapy, Doctorate of Physical Therapy (DPT) Curriculum, University of Utah
- 2012- Lecturer, PT 594: Development, Control, and Analysis of Human Movement. Program in Physical Therapy, Post-professional DPT curriculum, Washington University
- 2011 Invited panelist, BIO 5565: Oral Presentation of Scientific Data. Division of Biological and Biomedical Sciences, PhD Curriculum, Washington University
- 2011-2012 Lecturer, MC&ML 641: Motor Control and Motor Learning. Program in Physical Therapy, DPT curriculum, Washington University
- 2010 Instructor and Course Coordinator, MSP 5610: Biocontrol Mechanisms. Program in Physical Therapy, PhD Curriculum, Washington University
- 2009-2012 Lecturer, PT 605: Neuroscience. Program in Physical Therapy, DPT curriculum, Washington University
- 2002-2004 Teaching Assistant, KINES 360: Neurobiology of Motor Control & Development. Department of Kinesiology, Undergraduate Curriculum, Pennsylvania State University
- 2002 Teaching Assistant, SPME 430: Biomechanics of Human Movement. Division of Natural Sciences, Undergraduate Curriculum, Pepperdine University
- 2002 Teaching Assistant, CHEM 301: Elementary Organic Chemistry and Biochemistry. Division of Natural Sciences, Undergraduate Curriculum, Pepperdine University
- 2002 Teaching Assistant, SPME 350: Human Cadaver Prosection. Division of Natural Sciences, Undergraduate Curriculum, Pepperdine University
- 2001-2002 Teaching Assistant, SPME 330: Functional Anatomy and Kinesiology. Division of Natural Sciences, Undergraduate Curriculum, Pepperdine University

### ***Advising and mentoring***

- 2016-        Doctoral dissertation advisor, Biomedical Engineering Doctoral Program, School of Biological and Health Systems Engineering, Arizona State University
- 2016-        Master's thesis advisor, Biomedical Engineering Master's Program, School of Biological and Health Systems Engineering, Arizona State University
- 2016-        Undergraduate Honors Thesis advisor, Barrett Honors College, Arizona State University
- 2013-        Doctoral dissertation advisor and committee member. Pathokinesiology Specialization, Disability Disciplines Doctoral Program, Department of Special Education and Rehabilitation, Utah State University
- 2013-        Doctoral dissertation committee member, Rehabilitation Science Doctoral Program, Department of Physical Therapy, University of Utah
- 2013-2016    Pre-Occupational Therapy Club Faculty Advisor and Director of Occupational Therapy Internship Program, Utah State University
- 2012-2016    Master's thesis advisor and committee member. MS in Exercise Science, Department of Health, Physical Education and Recreation, Utah State University
- 2012-2016    Undergraduate Honors thesis advisor. Department of Health, Physical Education and Recreation, Utah State University
- 2009-2012    Undergraduate student mentor. Department of Biomedical Engineering, Washington University

### **PROFESSIONAL SERVICE**

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Grant Reviewer, Albert Einstein Society (2016-present)

Early Career Reviewer, NIH CSR Motor Function and Speech Rehabilitation (MFSR) Study Section (2016)

Ad hoc grant reviewer for National Science Foundation (NSF): Program in Perception, Action, and Cognition (2014-present)

Regular reviewer for:

*Journal of Neurophysiology*  
*Journal of Neuroengineering and Rehabilitation*  
*Experimental Brain Research*  
*Journal of Motor Behavior*  
*The American Journal of Occupational Therapy*

Ad hoc reviewer for:

*Cortex*  
*Cerebral Cortex*  
*Archives of Physical Medicine and Rehabilitation*  
*Annals of Biomedical Engineering*  
*Somatosensory and Motor Research*  
*Muscle and Nerve*

*Brain Research*  
*Neuroscience*  
*Journal of Neurologic Physical Therapy*  
*Frontiers in Human Neuroscience*  
*Research Quarterly for Exercise and Sport*

Participant, Grant Writing Crash Course, Vice President for Research Office, University of Utah (2013)

Member, Utah State University Undergraduate Research Advisory Board (2013-2015)

Affiliate Member, Center on Aging, University of Utah (2012-2016)

Participant, NIH Regional Seminar on Program Funding and Grants Administration (2012)

Mentor, Graduate Fellowship & Grant Writing Workshop, Division of Biology & Biomedical Sciences, Washington University (2010)

Selected attendee, Early Career Course, Annual ACRM-ASNR Joint Educational Conference (2008)

Selected attendee, Motor Control Summer School, International Society of Motor Control (2007)

## **AWARDS AND HONORS**

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2016            Researcher of the Year, Department of Health, Physical Education and Recreation, Utah State University

2015            Recipient, Open Access Funding Initiative, Utah State University

2014            Recipient, Recognition of Excellence in Mentoring Undergraduate Research, National Council on Undergraduate Research (CUR)

2013            Center for Persons with Disabilities Faculty Fellow Program

2013            Travel Award, Center for Women and Gender, Utah State University

2013            Featured Article in the Neurology Section of the American Physical Therapy Association

2012            Exceptional (10+) F1000 Article Factor: [F1000.com/13788956#eval15217056](https://www.f1000.com/13788956#eval15217056)

2004-2005      Graduate Research Assistantship, Pennsylvania State University

2002-2004      Graduate Teaching Assistantship, Pennsylvania State University

2004            Department of Kinesiology Graduate Research Award, Pennsylvania State University

2002            Summa cum laude, Pepperdine University

## **PROFESSIONAL MEMBERSHIPS**

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Society for Neuroscience  
American Society for Neurorehabilitation  
Gerontological Society of America  
Society for the Neural Control of Movement  
International Society of Motor Control

