

Curriculum Vitae

Susan Marie Tucker, OTD, OTR/L, ATP

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Contact Information

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Program in Occupational Therapy
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Present Position

2024 – present Assistant Professor, Occupational Therapy & Neurology
Program in Occupational Therapy
Washington University School of Medicine, St. Louis, MO

Education

Undergraduate

2000 Bachelor of Arts in Psychology
Washington University, St. Louis, MO

Graduate

2002 Master of Science in Occupational Therapy
Washington University School of Medicine, St. Louis, MO

2014 Postgraduate Doctor of Occupational Therapy
Washington University School of Medicine, St. Louis, MO

Academic Positions / Employment

1996 – 2000 Student Athletic Trainer
Washington University in St. Louis, St. Louis, MO

1998 – 2002 Applied Behavior Analysis Paraprofessional
St. Louis Special School District, St. Louis, MO

2001 – 2015 Personal Care Attendant
Independent Contractor, St. Louis, MO

2002 – 2003 Research Coordinator
Paraquad, Inc. & Washington University Program in Occupational Therapy, St.
Louis, MO

2003 – 2009 Occupational Therapist
Washington University School of Medicine, St. Louis, MO

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2009 – 2019 Clinical Specialist Occupational Therapist
Washington University School of Medicine, St. Louis, MO

2019- 2023 Instructor Occupational Therapy and Neurology
Washington University School of Medicine, St. Louis, MO

Clinical Title and Responsibilities

Occupational Therapist
Assistive Technology Professional

- Conduct occupational therapy and assistive technology assessments for clients in clinic, home and at the workplace
- Administer wheelchair evaluations/assessments and recommend and fit equipment
- Perform evaluations and training for wheelchair propulsion
- Conduct pressure mapping assessments
- Conduct clinical research related to seating and mobility intervention

Teaching Title and Responsibilities

2008-2012 Tutor, OT5301 Problem Based Learning Tutorial: Clinical Reasoning
2010-2012 Lab Instructor/Guest lecturer, OT5491 Innovations of Assistive Technology to support participation
2011-2012 Lab Instructor, OT5162 Environments that Influence Daily Activities
2013-2013 Group Leader, OT5164 Environmental Factors Facilitating Performance and Participation
2013-2013 Course Director, OT595 Independent Study
2013-2020 Co-Course Director and tutor, OT5801 Case Based Learning I
2013-2020 Course Director, OT605 Applied Clinical Practice I
2013-2020 Course Director, OT606 Applied Clinical Practice II
2014-2020 Course Director, OT607 Applied Clinical Practice III
2014-2020 Course Director, OT608 Applied Clinical Practice IV
2014-2020 Co-Course Director and tutor, OT5802 Case Based Learning II
2014-2016 Co-Course Director and lab instructor, OT5220 Supporting Participation with Technology and Environmental Interventions
2017-2020 Lab Instructor/Guest lecturer, OT5220 Supporting Participation with Technology and Environmental Interventions
2019-2019 Course Director, OT595 Independent Study
2020-present Co-Course Director and tutor, OT643 Case Based Learning II
2020-present Co-Course Director and tutor, OT653 Case Based Learning III
2020-present Course Director, OT638 Mentored Scholarship I
2020-present Course Director, OT648 Mentored Scholarship II
2020-present Course Director, OT658 Mentored Scholarship III
2022-2023 Co-Course Director, OT627 Enabling Community Living
2022-present Course team member, OT629 Biomechanics

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University Committees and Activities

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|----------------|---|
| 2013 –2016 | Member, Advanced Interprofessional Education Committee, Washington University School of Medicine, St. Louis, MO |
| 2016 – present | OT Representative for Health Professional Student Leadership Council, Washington University School of Medicine, St. Louis, MO |
| 2018—2020 | Center for Interprofessional Education Standardized Patient Team Experience Facilitator, Washington University School of Medicine, St. Louis, MO |
| 2020--present | Student Advisor Coordinator Program in Occupational Therapy Washington University School of Medicine St. Louis, MO |
| 2021-2021 | Member, Faculty Search Committee, Program in Occupational Therapy Washington University School of Medicine St. Louis, MO |
| 2021 – 2023 | Member, Committee on the Academic and Professional Evaluation of Students Program in Occupational Therapy, Washington University School of Medicine St. Louis, MO |
| 2022 –present | Member, Faculty Senate Washington University in St Louis, St. Louis, MO |
| 2022 –present | Member, Inclusive OT Education Committee, Washington University School of Medicine, St. Louis, MO |
| 2023 –present | Member, Admissions Committee Occupational Therapy, Washington University School of Medicine, St. Louis, MO |

Medical Licensure and Certification

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|----------------|---|
| 2003-present | National Board of Certification for Occupational Therapy Certification number: 1064422 Active |
| 2003 – present | Missouri Board of Registration License number: 2003024186 Active |
| 2007 – present | Assistive Technology Professional |

Honors and Awards

| | |
|------|--|
| 1998 | NCAA Championship, Division III Women's Basketball-Washington University |
| 1999 | NCAA Sectional Tournament All-Tournament Team, Women's Basketball |
| 1999 | All UAA Conference Second Team Selection, Women's Basketball |
| 1999 | NCAA Championship, Division III Women's Basketball-Washington University |
| 2000 | All UAA Conference Second Team Selection, Women's Basketball |
| 2000 | NCAA Championship, Division III Women's Basketball-Washington University |
| 2001 | Pi Theta Epsilon Honor Society for Occupational Therapy |
| 2003 | Volunteer of the Year, St. Louis Wheelchair Athletic Association |
| 2007 | National Women's Football Association Rookie of the Year Award |

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| 2011 | Individual Sports Hall of Fame Inductee, Washington University in St. Louis |
| 2013 | Pi Theta Epsilon Honorable Inductee |
| 2014 | Team Sports Hall of Fame Inductee, Washington University in St. Louis |
| 2014 | Graduated with High Honors with Doctor of Occupational Therapy, Washington University School of Medicine, St. Louis, MO |
| 2016 | Order of Ikkos Award Silver Medal 2016 Paralympic Games Wheelchair Rugby |
| 2021 | Order of Ikkos Award Silver Medal 2021 Paralympic Games Wheelchair Rugby |

Editorial Responsibilities

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|----------------|--|
| 2017 – present | Reviewer, PLOS One |
| 2019 – present | Reviewer, Journal of Spinal Cord Injury Medicine |
| 2023 – present | Reviewer, American Journal of Occupational Therapy |

National Panels, Committees, Boards

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|----------------|--|
| 2016 – present | Member, Clinician Task Force (CTF) –CTF is a national non-profit organization of experienced professionals who practice, serve and provide education to and advocate for individuals requiring complex rehab technology. |
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Community Service Contributions

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|----------------|--|
| 2001 – 2023 | Head Coach, St. Louis Wheelchair Rugby, St. Louis, MO |
| 2005 –2008 | Member, Steering Committee Assistive Technology Consumer Fair, St. Louis, MO |
| 2007 –2008 | Member, Race Committee Roll on the River 5K, St. Louis, MO |
| 2007 –2017 | Member, Selection Committee United States Quad Rugby Association |
| 2010 – present | Member, Show Me Response St. Louis County Medical Reserve Corps, St. Louis, MO |
| 2012 --2021 | Member, Selection Committee Team USA Wheelchair Rugby, Birmingham, AL |
| 2015 --2016 | Member, She Leads Committee, Washington University, St. Louis, MO |
| 2013 – 2021 | Assistant Coach, USA Wheelchair Rugby National Team |

Professional Societies and Organizations

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|----------------|--|
| 2003 – 2004 | Member, Rehabilitation Engineering and Assistive Technology Society of North America |
| 2006 – 2007 | Member, American Occupational Therapy Association |
| 2007 – 2008 | Member, American Public Health Association |
| 2011 – 2012 | Member, American Public Health Association |
| 2012 – present | Member, American Occupational Therapy Association |
| 2016 – present | Member, Clinician Task Force |
| 2018 – present | Member, Rehabilitation Engineering and Assistive Technology Society of North America |
| 2020 – present | Member, National Academic Advising Association (NACADA) |
| 2022 –present | Member, World Federation of Occupational Therapists |

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Consulting Relationships and Board Memberships

2009 –2017 Member, Greater St. Louis Recreation Council Board
2010 – 2016 Committee Member, Maryville University Institutional Review Board
2021 –present Member, Gateway Housing Service Project Community Practice Advisory Board

Research

Role: Research Staff

Title: Assistive Technology in the Community

Principal Investigator: David B. Gray, PhD

Duration: 2003 – 2006

Funding Source: DOE/NIDRR (H133A010701)

Award: \$1,500,000

Role: Project Coordinator

Title: Exercise Programs and Health Promotion for Unserved and Underserved People with Mobility Impairments

Principal Investigator: David B. Gray, PhD

Duration: 2005 – 2007

Funding Source: Missouri Foundation for Health

Award: \$508,423

Role: Principal Investigator

Title: Drivers with Tetraplegia: Strength, endurance and other Contributing Characteristics

Duration: 2009 – 2011

Funding Source: University of Missouri Spinal Cord Injury Foundation

Award: \$50,000

Role: Project Occupational Therapist Evaluator

Title: “Measurement of Medical Rehabilitation Outcomes: R2: Validation of New Measures of Cognitive Function and Performance in Individuals with Stroke, SCI, and TBI”

Principal Investigator: Allen Heinemann, PhD, R2 Principal Investigator: David Tulsy, PhD, St Louis Project Director: Carolyn Baum, PhD

Duration: 2011-2012

Funding Source: NIDRR (H133B090024)

Award: \$4,250,000

Role: Project Occupational Therapy Specialist

Title: Effect of Wheelchair Training for New Manual Wheelchair Users (Year 2)

Principal Investigator: Kerri Morgan, MSOT, OTR/L, ATP

Duration: 2013 – 2014

Funding Source: Missouri Spinal Cord Injuries Research Program

Award: \$96,844

Role: Project Occupational Therapy Specialist

Title: Application of the WMS for Advanced Physical Training and Endurance Testing of Manual Wheelchair Users

Principal Investigator: Kerri Morgan, MSOT, OTR/L, ATP

Duration: 2015 – 2016

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Funding Source: Missouri Spinal Cord Injury/Disease Research Program
Award: \$82,521

Role: Project Occupational Therapy Specialist
Title: Assessment and Training for Participation in Adapted Sports and Recreation
Principal Investigator: Kerri Morgan, PhD, OTR/L, ATP
Duration: 2016 – 2017
Funding Source: Craig H. Neilsen Foundation (Quality of Life Project Grant)
Award: \$47,256

Role: Project Occupational Therapy Specialist
Title: Exercise Training in a Community-Based Setting for People with Spinal Cord Injuries
Principal Investigator: Kerri Morgan, PhD, OTR/L, ATP
Duration: 2017 – 2019
Funding Source: Craig H. Neilsen Foundation (Psychosocial Research Grant)
Award: \$199,844

Role: Project Occupational Therapy Specialist
Title: Wheelchair user physical activity training intervention to enhance cardiometabolic health (WATCH): A community-based randomized control trial
Principal Investigator: Kerri Morgan, PhD, OTR/L, ATP
Duration: 2/1/23 – 1/31/2028
Funding Source: National Institutes of Health – Eunice Kennedy Shriver National Institute of Child Health and Human Development
Award: \$2,721,542

Trainee/Mentee/Sponsorship Record

Independent Study Students

2013 Kristin Will
2019 Rachel Wurtzel

Level II Fieldwork Students-OTA

2008 Juliet Kerman

Level II Fieldwork Students-OT

2005 Paula Frey
2005 Timothy Wolf
2006 Molly Listenberger
2006 Angela Monzin
2007 Katriona Buhler
2009 Suzy Crumbaugh
2020 Melanie Hubbuck

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Capstone/DEC Students

- 2017 Christopher Enke-Capstone goal: gain advanced clinical skills in seating and mobility and gain experience with teaching.
- 2022 Kayleigh Sukow-Capstone goal: gain advanced clinical skills in seating and mobility. Student passed ATP exam and currently accruing hours in AT provision for full ATP certification.

OT Doctoral Projects

- 2021 Kayleigh Topel & Erin Tormey; An observational study of personal and environmental factors associated with attendance at a community-based adaptive fitness center for adults with physical disabilities.

**published and awarded the Occupational Therapy Research Award May, 2022*

- 2022 Alicia Mullings; Exploring the physical activity of adults aging with long-term physical disabilities: a qualitative study.
Heeb, R., Kiserow, R., Mullings, A., Smith, M., **Tucker S.**, Eyler, A., Stark, S., Morgan, K. (2022, November). Exploring the physical activity of adults aging with long-term physical disabilities: a qualitative study.

**Poster presented at the 2022 American Congress of Rehabilitation Medicine, Chicago, IL.*

**Awarded "best early career poster in geriatric rehabilitation" by ACRM*

**Published article in American Journal of Health Promotion*

Masters of Science in OT Projects

- 2014 Sarah Brodie; Pressure Relief Education for Wheelchair Users Living in the Community
- 2015 Erica McNelly; Evaluation of Client Satisfaction with Their Mobility Device and Related Services
- 2016 Aaron Murray; Development of the Seating and Mobility Resource Tool
- 2017 Vicotria (Tori) Courts; Community Participation Among Mobility Device Users
- 2017 Joseph Wymore; Differences in Mobility Device User's Perceived Effectiveness with New Mobility Devices by Funding Source
- 2018 Jessica Erb; Wheelchair Skills Test Outcomes at the Washington University in St. Louis Seating and Mobility Clinic
- 2018 Alexis (Lexi) Cirrincione; Effectiveness of the Wheelchair Propulsion Test to measure outcomes of seating
- 2019 Ritchey, Gabrielle; Factors Affecting Functional Mobility Assessment Scores at the Washington University Seating and Mobility Clinic

Bibliography

Original, Peer-Reviewed Articles in Refereed Journals

1. Morgan, K. A., **Tucker, S. M.**, Engsberg, J. R., & Klaesner, J. (2015). A motor learning approach to wheelchair training for new manual wheelchair users: A pilot study. *Journal of Spinal Cord Medicine*, 1-20.
2. Glueck, D.A., Grice, G.R., Rea, G.B, Perlmutter, M.S., Rotter, B., Hageman, H., Pitt, J. **Tucker, S.**, Bunt, G., Weber, A. & McConachie, A. (2015). Building Interprofessional Simulations that

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- Emphasize Flexibility and Teamwork in Treatment Planning. *Journal of Interprofessional Education & Practice*. DOI: <https://doi.org/10.1016/j.xjep.2015.07.032>
3. Morgan K.A., Taylor, K.L., **Tucker, S.M.**, Cade, W.T., Klaesner, J. (2018). Exercise testing using a roller system for manual wheelchair users with spinal cord injury. *Journal of Spinal Cord Medicine*. DOI: [10.1080/10790268.2018.1443542](https://doi.org/10.1080/10790268.2018.1443542)
 4. Morgan, K. A., Paton, S., Patten, A., **Tucker, S.**, & Walker, K. (2021). Community-based exercise goals of persons with spinal cord injury: Interpreted using the International Classification of Functioning, Disability, and Health. *The Journal of Spinal Cord Medicine*, 1-10.
 5. Morgan, K., Heeb, R., Walker, K., **Tucker, S.**, & Hollingsworth, H. (2022). Impact of the COVID-19 Pandemic on Psychosocial Health of Persons With Spinal Cord Injury: Investigation of Experiences and Needed Resources. *Topics in Spinal Cord Injury Rehabilitation*, 28(2), 185-195.
 6. Morgan, K. A., Taylor, K., Walker, C. W., **Tucker, S.**, Dashner, J. L., & Hollingsworth, H. (2022) Mobility disability and exercise: Health outcomes of an accessible community-based center. *Frontiers in Rehabilitation Sciences*, 37.
 7. Morgan, K. A., Heeb, R., Flynn, A., Sukow, K., Tormey, E., **Tucker, S.**, Walker, K. & Hollingsworth, H. (2022). An observational study of personal and environmental factors associated with attendance at a community-based adaptive fitness center for adults with physical disabilities. *Disability and Health Journal*, 101342.
 8. Morgan, K., Heeb, R., Walker, K., **Tucker, S.**, & Hollingsworth, H. (2022). Impact of the COVID-19 Pandemic on Psychosocial Health of Persons With Spinal Cord Injury: Investigation of Experiences and Needed Resources. *Topics in Spinal Cord Injury Rehabilitation*, 28(2), 185-195.
 9. Heeb Desai, R., Kiserow, R., Mullings, A., Smith, M., **Tucker, S.**, Eyler, A., ... & Morgan, K. (2023). Exploring the Perspectives of Adults Aging With Long-Term Physical Disabilities on Physical Activity: A Qualitative Study. *American Journal of Health Promotion*, 08901171221151123.
 10. Taff, S.D., Bachelani S., Russell-Thomas D.C., **Tucker S.**, Walker C., West-Bruce S. (2023) Development and pilot of an educator training course for early career faculty. *Education in the Health Professions*, 6:101-6.
 11. Morgan, K.A., Taylor, K.L., Heeb Desai, R., Walker, K. **Tucker, S.**, Walker, C.W, Hollingsworth, H. & Cade, W.T. (2024) Feasibility of a community-based structured exercise program for persons with spinal cord injury, *The Journal of Spinal Cord Medicine*, DOI: [10.1080/10790268.2023.2293327](https://doi.org/10.1080/10790268.2023.2293327)

Book Chapters

1. Morgan, K. A., Taylor, K. L., & **Tucker, S.** (2022). Rehabilitation in spinal cord injury: Exercise and testing for cardiorespiratory endurance and musculoskeletal fitness. In V. Preedy (Ed.), *The Neuroscience of Spinal Cord Injury* (pp. 513-524). Elsevier. <https://doi.org/10.1016/B978-0-12-822498-4.00040-3>

Articles in Professional Magazines

1. Morgan, K. & **Tucker, S.** Adaptive Sports for Nonmilitary Clients. *OT Practice*. May 2007.
2. **Tucker, S. M.** Walker, C.W. Taylor, K.L. Walker, K.A. & Morgan, K. (2017). Evaluation Considerations in a Community-Based Seating and Mobility Clinic. *SIS Quarterly Practice Connections: A Supplement to OT Practice*, 2(1), 10-12.
3. **Tucker, S.** Elite Wheelchair Rugby: Paralympics, Pandemic and Positioning. *Directions*. 2021 (6) December, 2021. Pp. 16-17.

Curriculum Vitae

Peer-Reviewed Presentations

1. **Tucker, S.**, Morgan, K., Gray, D.B., Listenberger, M. & Monzin, A. Health Promotion and Exercise Programs Offered at a Community Based Center. American Occupational Therapy Association, St. Louis, MO, April 2007.
2. **Tucker, S.**, Gray, D.B., Morgan, K., Listenberger, M. & Monzin, A. Use of Health Handbooks to Promote Health and Wellness for People with Mobility Impairments. American Public Health Association, Washington DC, November 2007.
3. Gray, D.B. & **Tucker, S.** Influence of a community based exercise program for people with mobility impairments and limitations on health. American Public Health Association, Washington DC, October 2011.
4. **Tucker, S.** & Smith, M. Influence of a community based exercise program on fitness, endurance and strength of mobility device users. American Occupational Therapy Association, Indianapolis, IN, April, 2012.
5. **Tucker, S.**, Hawkins-Chernof, B. & Walker, C. Assistive Technology for Young Adults with Physical Disabilities Transitioning to Work/College. Missouri Occupational Therapy Association, Lake Ozark, MO, November, 2012.
6. Bender, M. & **Tucker, S.** Implementing the FEW into Everyday Best Practices. International Seating Symposium, Nashville, TN, March, 2013.
7. **Tucker, S.**, Morgan, K., Will, K. Manual Wheelchairs: Evaluation & Training. Missouri Occupational Therapy Association, St. Louis, MO, November, 2013.
8. **Tucker, S.**, Walker, C. & Bender, M. Outcome of Utilizing FMA & Team Approach in a Community-Based Seating Clinic. International Seating Symposium, Nashville, TN, February, 2015.
9. **Tucker, S.** Motor learning approach for training manual wheelchair users. International Seating Symposium, Nashville, TN, April, 2017.
10. **Tucker, S.** Outcomes in a Community Based Wheelchair Seating Clinic. International Seating Symposium, Nashville, TN, April, 2017.
11. **Tucker, S.** & Morgan, K. Therapists guide for evaluation, selection, fitting and training with adaptive sports equipment. American Occupational Therapy Association, Salt Lake City, UT, April, 2018.
12. **Tucker, S.** & Bender, M. Extreme Positioning for FSH Muscular Dystrophy-A Case Report. International Seating Symposium, Pittsburgh, PA, March, 2019.

Peer-Reviewed Poster Presentations

1. Gray DB, Hollingsworth HH, Morgan KA, Dashner J, Walker C, **Tucker S**, Lyles M, Curl DS, Scheller M. Assessment of Community Participation for Individuals with Mobility Impairments. American Public Health Association Annual Meeting, Boston, MA. November, 2006.
2. Gray, D.B., Hollingsworth, H.H., Morgan, K.A., Dashner, J., Walker, C., **Tucker, S.**, Lyles, M., Walker, K., DeGroot, K. Mobility Device Skills Assessed by Four Groups of Mobility Device Users. American Public Health Association Annual Meeting, Boston, MA. November, 2006.
3. **Tucker, S.M**, Hawkins-Chernof, B. & Walker, C.W. Assistive Technology for Young Adults with Physical Disabilities transitioning to work/college. American Occupational Therapy Association, San Diego, CA. April, 2013.
4. Glueck, D.A., Grice, G.R., Rea, G.B, Perlmutter, M.S., Rotter, B., Hageman, H., Pitt, J. **Tucker, S.**, Bunt, G., Weber, A. & McConachie, A. Building Interprofessional Simulations that

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- Emphasize Flexibility and Teamwork in Treatment Planning. Association of Standardized Patient Educators Annual Meeting. Indianapolis, IN. June, 2014.
5. Perlmutter, M.S., **Tucker, S.**, Harris, D., Grice, G. Identifying Communication Behaviors that Promote Interprofessional Teamwork among Health Care Profession Students. American Occupational Therapy Association, Philadelphia, PA, April, 2017.
 6. **Tucker, S.**, Perlmutter, M.S. Impact of Case-Based Learning Course on Occupational Therapy Student Clinical Reasoning Skills. American Occupational Therapy Association, Salt Lake City, UT, April, 2018.
 7. Morgan, K., Taylor, K., Dashner, J., **Tucker, S.**, Walker, C., Bean-Kampwerth, L., Smith, M. & Hollingsworth, H. (2018). A Community-Based Exercise Program for Individuals with a Mobility Disability. *Archives of Physical Medicine and Rehabilitation*, 99(12), e190.
 8. Heeb, R., Kiserow, R., Mullings, A., Smith, M., **Tucker S.**, Eyler, A., Stark, S., Morgan, K. (2022, November). Exploring the physical activity of adults aging with long-term physical disabilities: a qualitative study.