

CURRICULUM VITAE

Jeffrey D Konrad, PT, DPT, PhD

DATE: 5/22/2024

CITIZENSHIP: USA

ADDRESS AND TELEPHONE NUMBERS:

Program in Physical Therapy
Washington University School of Medicine
Campus Box 8502
4444 Forest Park Blvd, Suit 1101
St. Louis, MO 63108
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PRESENT POSITION:

Assistant Professor of Physical Therapy, Neurology
Washington University in St. Louis

EDUCATION:

2007	University of Wisconsin – Milwaukee B.A. Political Science
2011	University of Wisconsin – Milwaukee Doctor of Physical Therapy
2019 – 2024	Washington University in St. Louis Doctor of Philosophy in Movement Science Mentor: Catherine Lang, PT, PhD

EMPLOYMENT/RESEARCH EXPERIENCE:

2001 – 2009	Wisconsin Army National Guard Enlisted
2007 – 2011	Research Assistant Pediatric Neuromotor Lab University of Wisconsin – Milwaukee Principal Investigator: Dr. Victoria Moerchen, PT, PhD
2011 – 2012	Physical Therapist Injury Rehab Clinic Brookfield, WI
2012 – 2017	Physical Therapist Prevea Physical Therapy Institute Sheboygan, WI

2016 – 2019 Freelance writing, science communication, manuscript editing
Cactus Global

2024 – present Assistant Professor of Physical Therapy, Neurology
Washington University in St. Louis

LICENSURE:

Physical Therapy: Wisconsin (#11746-24)
 Missouri (#2019025795)

MILITARY SERVICE:

2001 – 2009 Wisconsin Army National Guard

RESEARCH SUPPORT:

2020 – 2024 Role: Predoctoral Trainee
 Title: Doctoral Training in Movement Science
 Source: NIH
 Grant: T32 HD007434
 PI: Dr. Catherine Lang, PT, PhD
 Funding: \$209,422

2020 – 2021 Role: Predoctoral Trainee
 Title: Promotion of Doctoral Studies (PODS) I
 Source: Foundation for Physical Therapy Research
 PI: Dr. Catherine Lang, PT, PhD
 Funding: \$7,500

2021 – 2022 Role: Predoctoral Trainee
 Title: Promotion of Doctoral Studies (PODS) I
 Source: Foundation for Physical Therapy Research
 PI: Dr. Catherine Lang, PT, PhD
 Funding: \$7,500

HONORS AND AWARDS:

Military Service:

- National Defense Service Medal (x2)
- Global War On Terrorism Expeditionary Medal
- Global War On Terrorism Service Medal
- Army Reserve Components Achievement Medal
- Armed Forces Reserve Medal
- Overseas Service Ribbon

Undergraduate:

Dean's List 4 semesters & graduated Summa Cum Laude

UW-Milwaukee:

2010 UW-Milwaukee College of Health Sciences Student Research Grant Award

Washington University:

Scholar Citation - Professional Development in Teaching Program

PROFESSIONAL ORGANIZATIONS & SERVICE:

2020 – present	American Physical Therapy Association (APTA)
2020 – present	American Society of Neurorehabilitation (ASNR)
2020 – 2022	Washington University Graduate Student Senate -Chair Professional Development committee
2022 – 2024	Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS) - Spring Symposium Poster Judge
2022 – present	Washington University's Center for Teaching and Learning: Graduate Student Advisory Council - Event Co-chair and Operations officer
2023, 2024	The Biomechanics Initiative – National Biomechanics Day
2023 – present	North American Society for the Psychology of Sport and Physical Activity (NASPSPA)
2023 – present	The Mission Continues – Veteran community service organization.

TEACHING EXPERIENCES:

2018	Ad Hoc Instructor - Clinical Radiology Course University of Wisconsin-Milwaukee, Physical Therapy Program
2022	Mentored teaching experience – Neuroscience Washington University, Program in Physical Therapy
2022	Guest lecturer – Biocontrol course Washington University, Movement Science Program

BIBLIOGRAPHY:

Conference Abstracts:

1. **Konrad, J.D.** & Moerchen, VM (2008). To Brace or not to Brace: Treadmill Training for a Pre-ambulatory Toddler with an L4 Level Myelomeningocele. Wisconsin Physical Therapy Association, Spring Conference.
2. Chapman, B, **Konrad, J.**, Lyon, W, Zalewski, K, Kerk, A & Kristl, D (2010). Frequency Distribution and Inter-rater Reliability of the Vertical Compression Test. College of Health Sciences 2010 Spring Research Symposium.
3. Moerchen, V. A., Habibi, M., Lynett, K. A., **Konrad, J. D.**, & Hoefakker, H. L. (2010). Treadmill Training to Promote Overground Gait in a Toddler with Spina Bifida: A Case Report. American Physical Therapy Association, Combined Sections Meeting.
4. **Konrad, J.D.**, Marrus, N., Lang, C. (2020). Exploring the use of accelerometry to quantify motor characteristics of children with and without autism. National Center for Medical Rehabilitation Research (NCMRR): Rehabilitation Research 2020.
5. **Konrad, J.D.**, Marrus, N., Lang, C. (2021). Using accelerometry to quantify motor traits of children with and without autism. The 16th Annual University of Florida Neuromuscular Plasticity Symposium.

6. **Konrad, J.D.**, Marrus, N., Lang, C. (2021). Using accelerometry to quantify motor traits of children with and without autism. American Society of Neurorehabilitation (ASNR) annual conference.
7. Barth J., Lohse K.R., **Konrad J.D.**, Bland M.D., and Lang C.E. (2022). Sensor-based categorization and prediction of upper limb performance in daily life. Academy of Physical Therapy Research 2022 Retreat.
8. **Konrad, J.D.**, Marrus, N., Lang, C. (2023). Quantifying motor impairments with wearable sensors. North American Society for the Psychology of Sport and Physical Activity (NASPSA) 2023 annual conference.
9. Marrus, N., Lohse, K., **Konrad, J.**, Bland, B., Campbell, M., Savannah Davis, S., Mei, P., Hines-Wilson, M., Balsler, D., Adebogun, R., Pileggi, M., Klin, A., Jones, W., Lieber, H., Iverson, J., White, S., Constantino, J., Lang, C. (2024) "Heritability of Accelerometry Metrics in Infancy and Implications for Early ASD Screening" has been accepted as a poster presentation at the International Society for Autism Research Annual Meeting (INSAR 2024).
10. Miller A.E., Lohse K.R., Bland, M.D., **Konrad J.D.**, Holleran, C.E., Hoyt C.R., and Lang C.E. (2024). Advancing the Field of Neurorehabilitation through Data Harmonization: Harmonizing 10+ Years of Upper Limb Accelerometry Data. American Society of Neurorehabilitation (ASNR) annual conference.
11. Holleran C.L., **Konrad J.**, Norton B.J., Burlis T., (2024). Use of learner-driven, formative, ad-hoc assessment of competence in physical therapist clinical education in the United States; a prospective observational cohort. The International Association for Health Professions Education (AMEE) Annual Conference 2024 - Short Communication.
12. **Konrad, J.D.**, Lohse, K.R., Lang, C.L. (2024) Motor competence is related to acquisition of error-based but not reinforcement learning. American Physical Therapy Association, Combined Sections Meeting.

Peer-Reviewed Manuscripts:

1. Moerchen, V. A., Habibi, M., Lynett, K. A., **Konrad, J. D.**, & Hoefakker, H. L. (2011). Treadmill Training and Overground Gait. *Pediatric Physical Therapy*, 23(1), 53–61. doi:10.1097/pep.0b013e318208a310
2. Lang, C. E., Barth, J., Holleran, C. L., **Konrad, J. D.**, & Bland, M. D. (2020). Implementation of Wearable Sensing Technology for Movement: Pushing Forward into the Routine Physical Rehabilitation Care Field. *Sensors*, 20(20), 5744. <https://doi.org/10.3390/s20205744>
3. Barth, J., Lohse, K. R., **Konrad, J. D.**, Bland, M. D., & Lang, C. E. (2021). Sensor-Based Categorization of Upper Limb Performance in Daily Life of Persons With and Without Neurological Upper Limb Deficits. *Frontiers in Rehabilitation Sciences*, 0, 59. <https://doi.org/10.3389/FRESC.2021.741393>
4. **Konrad, J.**, Marrus, N., & Lang, C. E. (2022). A Feasibility Study of Bilateral Wrist Sensors for Measuring Motor Traits in Children With Autism. *Perceptual and Motor Skills*, 2022(0), 003151252211252. <https://doi.org/10.1177/00315125221125275>

5. **Konrad, J.D.**, Marrus, N., Lohse, K.R., Thuet, K.M., & Lang, C. E. (2024) Associations Between Coordination and Wearable Sensor Variables Vary by Recording Context but Not Assessment Type, *Journal of Motor Behavior*, DOI: 10.1080/00222895.2023.2300969
6. **Konrad, J.D.**, Marrus, N., Lohse, K.R., Thuet, K.M., & Lang, C. E. Motor competence is related to acquisition of error-based but not reinforcement learning. (Under Review at Heliyon).
7. **Konrad, J.D.**, Marrus, N., Lohse, K.R., & Lang, C. E. Trial-to-trial motor behavior during a reinforcement learning task in children ages 6 to 12. (Under Review at Human Movement Science).
8. Holleran C.L., **Konrad J.**, Norton B.J., Burlis T., Ambler S. (2023). Use of learner-driven, formative, ad-hoc assessment of competence in physical therapist clinical education in the United States; a prospective observational cohort, *J. Educ. Eval. Health Prof.* 20. <https://doi.org/10.3352/jeehp.2023.20.36>.
9. Lang, C. E., Hoyt, C. R., **Konrad, J. D.**, Bell, K. R., Marrus, N., Bland, M. D., Lohse, K. R., & Miller, A. E. (2024). Referent data for investigations of upper limb accelerometry: harmonized data from three cohorts of typically-developing children. *Frontiers in Pediatrics*, 12, 1361757. <https://doi.org/10.3389/FPED.2024.1361757>