**Laura A. Rice (McClure), PhD, MPT, ATP**

Department of Kinesiology and Community Health

University of Illinois at Urbana-Champaign

219 Freer Hall

906 S. Goodwin Ave., Urbana, IL 61801

e-mail: ricela@illinois.edu

**Education**

**PhD Rehabilitation Science and Technology** 2010

University of Pittsburgh, Rehabilitation Science and Technology

Human Engineering Research Laboratories

**M.S. Physical Therapy** 2004

Duquesne University, Department of Physical Therapy

**B.S. Health Sciences** 2003

Duquesne University, Department of Physical Therapy

**Professional Experience**

*Work*

**Assistant Professor:** Department of Kinesiology and Community Health, University of Illinois, Champaign-Urbana, IL

*2013- Present*

**Visiting Assistant Professor:** Department of Kinesiology and Community Health & Disability Resources and Educational Services, University of Illinois, Champaign-Urbana, IL.

*2011- 2013*

**Staff Physical Therapist:** Carle Foundation Hospital, Urbana, IL

*2011 – 2014*

**Assistant Professor:** Department of Rehabilitation Science and Technology

University of Pittsburgh, Pittsburgh PA.

*2010- 2011.*

**Physical Therapist, Seating and Mobility Specialist:** The Center for Assistive Technology

University of Pittsburgh Medical Center, Pittsburgh, PA.

*2008 – 2011.*

**Staff Physical Therapist:** University of Pittsburgh Medical Center: Shadyside Hospital, Pittsburgh, PA.

*2004-2011*

*Graduate*

**Research Associate/Doctoral Candidate**

University of Pittsburgh (Human Engineering Research Laboratories), Pittsburgh, PA. *2009- 2010*

(Research mentor: Dr. Michael Boninger)

**NSF Integrative Graduate Education and Research Training (IGERT)** **Fellow**

Human Engineering Research Laboratories, Pittsburgh, PA

*Clinical research on preservation of upper limb function in acute spinal cord injury*

2006- 2009

(Research mentor: Dr. Michael Boninger)

**Academic Honors**

Academy of Spinal Cord Injury Professionals, Therapy Leadership Council, Distinguished Lecture Award, 2019

**Grants**

***Current External Grants***

N/A (Rice, L.A.) 2/1/2020–1/31/2021

Illinois Physical Therapy Foundation

*Prediction of falls using clinical balance measures among non-ambulatory individuals with spinal cord injury: A prospective cohort study*

Role: PI

Total costs: $1,000

No salary support

90 REGE006-01-00 (Sanford, Rogers, Mitzner) 10/01/18-9/30/2023

National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR) Rehabilitation Engineering Research Center (RERC).

*Technologies to Support Aging-in-Place for People with Long-Term Disabilities*

Role: PI on D2 project; Co-I on R3 and D1 project

Current Year: $57,862

Total for all years (individual): $272,661

Overall total costs: $4,625,000

Percent Effort 13%

RG-1701-26862 (Rice, L.A.) 10/1/2017 – 9/30/2020

National Multiple Sclerosis Society

*Validation of a Fall Prevention Program Among Non-Ambulatory Wheeled Mobility Device Users with Multiple Sclerosis*

Role: Principal Investigator

Current Year: $193,419

Total Costs: $570,217

Percent Effort: 22%

***Completed External Grants***

NA (Rice, L.A.) 12/1/2017 – 12/1/2018

Permobil, AB

*Examination of the Influence of Active Reach on Functional Mobility, Physical Well-being and User Satisfaction Among Power Wheelchair Users*

Role: Principal Investigator

Total Costs: $58, 994

Percent Effort: 18%

NA (Rice, L.A.) 12/1/2016 – 8/31/2017

Permobil, AB

*Assessment of Fall Characteristics Among Manual Wheelchair Users*

Role: Principal Investigator

Total Costs: $38,484.00

Percent Effort: 11%

NA (Rice, L.A.) 9/1/2016 – 8/31/2017

Permobil, AB

*Assessment of Fall Characteristics Among Power Wheelchair Users*

Role: Principal Investigator

Total Costs: $38,168.00.

Percent Effort: 11%

PRG 323277 (Rice, L.A.) 4/1/2015 – 3/31/2017

Craig H. Neilsen Foundation

*Management of Fall Risk in Full Time Wheelchair Users Living with Spinal Cord Injury*.

Role: Principal Investigator

Total Costs: $99,840.

Percent Effort: 15%

PP2185(Rice, L.A) 4/1/2014 – 9/30/2015

National Multiple Sclerosis Society

*Management of Fall Risk in Non-Community Ambulators Affected by Multiple Sclerosis*

Role: Principal Investigator

Total Costs: $43, 986.80.

Percent Effort: 15%

IL 0005 (Rice, I.M.) 10/1/2012 – 9/30/2013

National Multiple Sclerosis Society

*Promoting Physical Activity Through a Manual Wheelchair Propulsion Activity Intervention in Persons with Multiple Sclerosis*.

Role: Co-Investigator

Total Costs: $109, 680

Percent Effort: 15%

***Completed Internal Grants***

NA (Rice, IM) 1/19/2016 – 12/31/2017

Chez Family Foundation Center for Wounded Veterans

*Home Based Telerehabilitation Training System for Veterans with Spinal Cord Injury.*

Role: Co-Investigator

Total Costs: $30,000

Percent Effort: No support

NA (Rice, L.A.) 5/1/2015 – 11/30/2017

University of Illinois Campus Research Board

*Enhancement of Community Participation Among Full Time Wheeled Mobility Device Users*

Role: Principal Investigator

Total Costs: $29,025

Percent Effort: No support

NA (Rice, L.A.) 10/30/2014 – 5/1/2015

Center for Health, Aging and Disability at University of Illinois

*Disability Resources and Education Services Research Registry*

Role: Principal Investigator

Total Costs: $1,287.50

Percent Effort: No support

NA (Rice, I.M.) 9/1/2013-2/28/2015

University of Illinois, Center for Health, Aging and Disability

*Impact of wheelchair propulsion and transfer training on reducing shoulder pain and increasing community participation in pediatric manual wheelchair users with physical disabilities*

Role: Co-Investigator

Total Costs: $19,730

Percent Effort: No support

NA (Sosnoff, J.J.) 12/9/2013 – 3/31/2014

Inspire: Illinois-Sweden Program For Educational and Research Exchange

*A Trans*-*Atlantic Examination of Falls in Non*-*ambulatory Individuals with Multiple Sclerosis*.

Role: Co-Investigator

Total Costs: $7,500

Percent Effort: No Support

***Pending Grants***

NA (Rice, L.A.) Pending

National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR) – Disability and Rehabilitation Research Projects (DRRP) Program: Community Living and Participation (Development)

*Development and Validation of an Online Fall Prevention Program Among Wheelchair and Scooter Users Living with Multiple Sclerosis*

Role: Principal Investigator

Total Costs: $1,829,960

Percent Effort: 20%

NA (Mahajan, H.P.) Pending

National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR) – Disability and Rehabilitation Research Projects (DRRP) Program: Community Living and Participation (Development)

*Fear of Falling Interventions for Older Wheelchair Users with Multiple Sclerosis*

Role: Co-Investigator

Total Costs: $ 2,499,995

Percent Effort: 14%

NA (Rice, L.A.) Pending

Paralyzed Veterans of America Research Foundation

*Development and Validation of an Online Fall Management Program Wheelchair and Scooter Users Living with Spinal Cord Injury and Multiple Sclerosis*

Role: Principal Investigator

Total Cost: $149,952

Percent Effort: 11%

***External Grants (Consultant Role)***

A2794-R (Koontz, A.M.) 5/1/2019–4/30/2023

VA Merit Review Program

Development of TransKinect: A Clinically Robust System for Transfer Assessment and Training

Role: Consultant

Total Costs: $1,098,718

Percent Effort: N/A

MB-1807-31633 (Sosnoff, J.J.) 4/1/2019 – 3/31/2020

National Multiple Sclerosis Society

*Mentor-based Rehabilitation Research Post-doctoral fellow: Cognitive-Motor Interference Rehabilitation in Multiple Sclerosis*

Role: Co-Investigator

Percent effort: No salary support

## (Boninger, M.L.) 10/1/2011 – 9/30/2014

National Institute on Disability and Rehabilitation Research

*University of Pittsburgh Model Center on Spinal Cord Injury*

Role: Consultant

Total Costs: $2,285,000

Percent Effort: N/A

**Publications**

*In Review:*

Worobey, L.A., Rigot, S., Boninger, M.L., Huzinec, R., DiGiovine, K., **Rice, L.A**. (In Review) Concurrent Validity and Reliability of the Transfer Assessment Instrument Questionnaire (TAI-Q) as a Self-Assessment Mesure. In Review at Archives of Physical Medicine and Rehabilitation.

Frechette, M.L., Abou, L., **Rice, L.A.,** Sosnoff, J.J. (In Review) The Validity, Reliability and Sensitivity of a Smartphone-based Seated Postural Control Assessment in Wheelchair Users. In Review at Frontiers.

Abou, L., Alluri, A., Flilfet, A., Du, Y., **Rice, L.A.** (In Review) Effectiveness of Physical Therapy Interventions in Reducing Fear of Falling Among Individuals with Neurological Diseases: A Systematic Review and Meta-analysis. In Review at Archives of Physical Medicine and Rehabilitation.

*Publications In Press:*

Abou, L., Malala, V.D., Yarnot, R., Alluri, A., **Rice, L.** (In Press) Effects of Virtual Reality Therapy on Gait and Balance among Individuals with Spinal Cord Injury: A Systematic Review and Meta-analysis. Neurorehabilitaiton and Neural Repair.

**Rice, LA.,** Yarnot, R., Mills, S., Sonsoff, JJ. (In Press) A Pilot Investigation of Anterior Tilt Use Among Power Wheelchair Users. In Press: *Disability and Rehabilitation: Assistive Technology.*

**Rice, LA.,** Sung, JH., Keane, K., Peterson, EW, Sosnoff, JJ. (In Press) A Brief Fall Prevention Intervention for Manual Wheelchair Users with Spinal Cord Injury: A Pilot Study. In Press: *Journal of Spinal Cord Medicine.*

Abou, L., Sung, JH., Sosnoff, JJ., **Rice, LA.** (2019) Validity and Reliability of the Function in Sitting Test (FIST) Among Non-Ambulatory Individuals with Spinal Cord Injury. In Press: *Journal of Spinal Cord Medicine.* EPub: April 18, 2019

*Publications:*

Abou, L., Romanini, F., Ilha, J., **Rice, L.A.** (2019) Do Clinical Balance Measures Have the Ability to Predict Falls Among Individuals with Spinal Cord Injury? A Systematic Review and Meta-analysis. *Spinal Cord* 57(12)1001-1013.

**Rice, LA.,** Sung, JH, Peters, J., Bartlo, W., Sosnoff, J. (2019) Perceptions of Fall Circumstances, Recovery Methods and Community Participation In Manual Wheelchair Users. *American Journal of Physical Medicine and Rehabilitation.* 98 (8), 649-656.

Sung, J., Trace, Y., Peterson, E., Sosnoff, J., **Rice, LA.** (2019) Falls among fulltime wheeled mobility device users with spinal cord injury and multiple sclerosis: A comparison of characteristics of fallers and circumstances of falls*.*  *DisabilRehab* Feb; 41(4): 389-395.

Rice, IM., Peters, J., **Rice, LA.,** Jan, YK. (2019) Influence of wheelchair user interface and personal characteristics on static and dynamic pretibial skin pressures in elite wheelchair racers, a pilot study. *Journal of Spinal Cord Medicine*. 42 (5), 613-621

**Rice, L.A.,** Peterson, E.W., Backus, D., Sung, J.H., Yarnot, R., Abou, L., VanDenend, T., Shen, S., Sosnoff, J.J. (2019) Validation of an Individualized Reduction of Falls (iROLL) Intervention Program Among Wheelchair and Scooter Users with Multiple Sclerosis. *Medicine.* May 2019 98(19).

**Rice, LA.,** Abou, L., vanDenend, T., Peterson, E., Sosnoff, J.J. (2018) Falls Among Wheelchair and Scooter Users with Multiple Sclerosis. *US Neurology.* Fall 2018; 14(2): 82-7.

Worobey, L.A.; Rigot, S.K.; Huzinec, R.; Sung, J.H.; **Rice, L.A.** (2018) Reliability and Validity of the Revised Transfer Assessment Instrument (version 4.0). *Topics in Spinal Cord Injury Rehabilitation.* Summer 2018 24(3): 217-226.

**Rice, LA.,** Sung, JH, Peters, J., Bartlo, W., Sosnoff, J. (2018) Assessment of Fall Circumstances, Injuries and Recovery Techniques Among Power Wheelchair Users. *Clinical Rehabilitation* 32(7) 985-993.

Dysterheft, J., Chaparro, G., **Rice, L.A.,** Rice, I.M. (2018) Investigating the Outcomes and Perceptions of an Inclusive Aquatic Exercise Class for University Students with Physical Disabilities. *Journal of Postsecondary Education and Disability.* 31(1) 41-56*.*

**Rice, L.A.** Isaacs, Z., Ousley, C., Sosnoff, J.J. (2018) Investigation of the Feasibility of an Intervention to Manage Fall Risk Among Wheeled Mobility Device users with Multiple Sclerosis*. International Journal of Multiple Sclerosis Care.* May/June 2018 20-3:121-128.

**Rice, L.A.** Kalron, A., Berkowitz, S., Backus, D., Sosnoff, J.J. (2017) Fall Prevalence in Wheeled Mobility Device Users Living with Multiple Sclerosis*. Medicine* Sept; 96:35(e7860)

**Rice, LA.,** Rice, IM. (2017) Evidenced Based Education Interventions to Preserve Upper Limb Function Among Full Time Manual Wheelchair Users. *Medical Research Archives* March. 5(3).

Dysterheft, J., Lindahl-Lews, P., Hubbard, E.A., Jones, O., **Rice, L.A.,** Rice, I.M. (2016)A mixed methods exploration of how university students with physical disabilities perceive physical activity and the influence of perceptions on physical activity levels. *Cogent Medicine.* 3(1):1196809.

Sung, J., Ousley, C., Shen, S., Isaacs, Z., Sosnoff, J.J., **Rice, L.A.** (2016) Reliability and validity of the function in sitting test in non-ambulatory individuals with multiple sclerosis. *Int J Rehabil Res*. Dec. 39(4):308-312.

Tsai, C.Y., Boninger, M.L., Hastings, J., Cooper, R.A., **Rice, L.A**., Koontz, Al.  (2016) The Immediate Biomechanical Implications of Transfer Component Skills Training on Independent Wheelchair Transfers*. Arch Phys Med Rehabil.* 97(10): 1785-92.

**Rice, L.A.,** Dysterheft, J., Sanders, E. Rice, I.M., (2017) Short Term Influence of Transfer Training Among Full Time Pediatric Wheelchair Users: A Randomized Trial. *J Spinal Cord Med:*40(4).

Dysterheft, J., Rice, I.M., **Rice, L.A.** (2015) Influence of Handrim Wheelchair Propulsion Training in Adolescent Wheelchair Users*. Front Bioeng Biotechnol* May 3:68.

**Rice, LA,** Ousley, C., Sosnoff, J.J. (2015) A Systematic Review of Risk Factors Associated with Accidental Falls, Outcome Measures and Interventions to Manage Fall Risk in Non-Ambulatory Adults*. Disabil Rehabil.* 37(19): 1697-705.

Rice, IM, **Rice, LA,** Motl R. (2015) Promoting Physical Activity Through a Manual Wheelchair Propulsion Activity Intervention in Persons with Multiple Sclerosis. *Arch Phys Med Rehabil.* 96(10): 1850-8.

Learmonth YC, Rice IM, Ostler, TA, **Rice LA,** Motl R. (2015)Perspectives on physical activity among persons with multiple sclerosis who are wheelchair users: Informing the design of future interventions*. Int J MS Care.* May-June: 17(3): 109-19.

Rice, IM., Wong, A. W., Salentine, B. A., & **Rice, L. A.** (2015). Differences in participation based on self-esteem in power and manual wheelchair users on a university campus: a pilot study. *Disabil Rehabil Assist Technol*. 10(2), 102-107.

**Rice, L. A.,** Smith, I., Kelleher, A. R., Greenwald, K., & Boninger, M. L. (2014). Impact of a wheelchair education protocol based on practice guidelines for preservation of upper-limb function: a randomized trial. *Arch Phys Med Rehabil, 95*(1), 10-19 e11.

Yang, T.D., Hutchinson, S., **Rice, L.A.**, Watkin, K., and Jan, Y.K.(2013). Development of a scalable monitoring system for wheelchair tilt-in-space usage. *Int J Phys Med Rehabil,* 1(4).

Tsai, C. Y., **Rice, L. A**., Hoelmer, C., Boninger, M. L., & Koontz, A. M. (2013). Basic Psychometric Properties of the Transfer Assessment Instrument (Version 3.0). *Arch Phys Med Rehabil*. 94(12).

Jan YK, Liao F, **Rice LA**, and Woods JA (2013*).* Using reactive hyperemia to assess the efficacy of local cooling on reducing skin ischemia under surface pressure in people with spinal cord injury: a preliminary report. *Arch Phys Med Rehabil.* 94(10):1982-9.

**Rice, L.A.,** I. Smith, A. Kelleher, K. Greenwald, C. Hoelmer, M.L. Boninger. (2013) Impact of the Clinical Practice Guideline for Preservation of Upper Limb Function on Transfer Skills of Persons with Acute Spinal Cord Injury. *Arch Phys Med Rehabil.* 94(7):1230-46.

Jan, Y. K., Liao, F., Jones, M. A., **Rice, L. A**., & Tisdell, T. (2013). Effect of durations of wheelchair tilt-in-space and recline on skin perfusion over the ischial tuberosity in people with spinal cord injury. *Arch Phys Med Rehabil,* 94(4), 667-672.

**McClure, L. A.,** Boninger, M. L., Oyster, M. L., Roach, M. J., Nagy, J., & Nemunaitis, G. (2011). Emergency evacuation readiness of full-time wheelchair users with spinal cord injury. *Arch Phys Med Rehabil, 92*(3), 491-498.

**McClure, L. A.,** Boninger, M. L., Ozawa, H., & Koontz, A. (2011). Reliability and validity analysis of the transfer assessment instrument. *Arch Phys Med Rehabil, 92*(3), 499-508.

**McClure, L. A**., Boninger, M. L., Oyster, M. L., Williams, S., Houlihan, B., Lieberman, J. A., & Cooper, R. A. (2009). Wheelchair repairs, breakdown, and adverse consequences for people with traumatic spinal cord injury. *Arch Phys Med Rehabil, 90*(12), 2034-2038.

*Book Chapters*

**Rice, L.A.** (In press) Transfer Skills. In: Sommers, M.F. *Spinal Cord Injury: Functional Rehabilitation, Fourth Edition.* Pearson Education Inc. Upper Saddle River, New Jersey.

Cooper, R.A., Cooper, R., Boninger, M.L., Bobish, T., **McClure, L.A.,** Kelleher, A., Pelleshi, T.L. (2014). Therapeutic Technology (Part II). In: M. Selzer, S. Clarke, L. Cohen, G. Kwakkel, R. Miller (Eds). *Textbook of Neural Repair and Rehabilitation, 2nd Edition*. New York: Cambridge University Press.

Cooper, R.A., McCue, M., Schein, R.M., Cooper, R. Sporner, M.L., Dodson, M.B., Reinsfelder, A.M.,Yeager, A.F., Jinks, A., LoPresti, E., **McClure**, **L.A.,** Wang, H., Collinger, J.L., Hiremath, S., Ding, D., Lewis, A.(2012).Assistive Technology for People with Traumatic Brain Injuries (Chapter 71). In: N.D. Zasler, D.I. Katz, R. Z. Zafonte, *(Eds).* *Brain Injury Medicine*, *2nd Edition* (1178-1201). New York: Demos Medical Publishing.

Boninger M, **McClure LA**, Cooper R, Schmeler M. (2010) Wheelchairs. In: Frontera W, Delisa J, Gans B, Walsh N, Robinson L, *(Eds)*. *Physical Medicine and Rehabilitation Principles.* Vol 5. Philadelphia: Lippincott, Williams and Wilkins.

*Invited Seminar Presentations*

**Rice, L.A.,** Rogers, W., Sosnoff, J.J. (2020, February 29-March 1). *Maximizing Independence with Technology in the Home.* Invited for presentation at the Carle Hospital Brain Injury Symposium., Champaign, IL. (invitation)

**Rice, L.A.,** Rice, I.M. (2019, September 1 -4). *Putting into Practice What We Preach.* Presented at the 2019 Academy of Spinal Cord Injury Professionals Conference and Expo, Nashville, TN. *Therapy Leadership Council Distinguished Lecture Award.*(invitation)

**Rice, L.A.,** Sung, J.S., Trace, Y., Peterson, E.W., Sonsoff, J.J. (2019, April 16). *Falls Among Wheelchair and Scooter Users Living with Multiple Sclerosis.* Invited for presentation at Illinois MS Research Day, Champaign, IL. (invitation)

**Rice, L.A.** (2017, November 10) *Assistive Devices and Wheelchairs.* Presented at the Falls: Prevention, Assessment and Intervention: Research to Practice Conference at Carle Foundation Hospital. (invitation)

Rice I,Blauwet C, **Rice LA.** (2014, June 1)Presentation and Laboratory on adapted wheelchair Sports at the Rehabilitation Institute of Chicago (RIC) 37th Annual Spinal Cord Interdisciplinary Course, Chicago, IL (invitation)

**McClure, LA**. (2011, April 30) *Upper Limb Preservation*, Presented at the Jim Thorpe Neurological Conference, Oklahoma City, OK. (invitation)

**McClure, LA** (2010 September 29-October 2) *Repetitive Motion Injuries and the Spinal Cord Injury Upper Extremity Protection Guidelines*, Presented at the Association of Rehabilitation Nurses 36th Annual Education Conference; Orlando, Fl. (invitation)

Minkel, J, Hastings, J, **McClure, LA,** Bjerkefors, A**.** (2010 June 7-9) *Clinical Practice Guidelines: Transfer Training for Transferring in the Home and Beyond*, Presented at the Posture and Mobility Group Annual Meeting, Glasgow, Scotland.

*Conference Presentation and Proceedings:*

**Rice, L.A.,** Van Denend, T., Sung, J.H., Peterson, E.W., *Fall Management Among Wheelchair Users Living with Multiple Sclerosis: Current Research and Practice Strategies.* Accepted for presentation at the 2020 Paralyzed Veterans of America Healthcare Summit and Expo. Orlando, FL.

Worobey, L.W., Bentz, K., **Rice, L.A.** (2020, August 13-15) *Transfers: Techniques, Technology and Training Tools to Optimize Safety and Independence.* Accepted for presentation at the 2020 Paralyzed Veterans of America Healthcare Summit and Expo. Orlando, FL.

Gonzalez, E., Sanford, J., **Rice, L.A**., Kadylak, T. (2020, July 7-10) *Technologies to Support Aging-in-Place for People with Long-Term Disabilities.* Accepted for presentation at the 2020 Rehabilitation Engineering Society of North America Conference., Arlington, VA.

Frechette, M.L., Abou, L., **Rice, L.A.,** Sosnoff, J.J. (2020, May 26-30) *Biomechanical Measurement Equipment.* Accepted for presentation as a poster at the 67th Annual American College of Sports Medicine Conference., San Francisco, CA.

Peterson, E.W., Van Denend, T., Sung, J.H., Rice, L.A. (2020, March 26-29) *Client-centered and Interdisciplinary Approaches to Building Fall Prevention Skills Among Full-time Wheelchair and Scooter Users: Best Practices.* Accepted for presentation at the 2020 American Occupational Therapy Annual Conference and Expo., Boston, MA. (conference cancelled)

**Rice, L.A.,** Peterson, E.W., Backus, D., Sung, J.H., Yarnot, R., Van Denend, T.V., Shen, S., Sosnoff, J.J. (2020, March 3-6). *Managing Fall Risk Among Wheelchair and Scooter Users: Best Practices and Lessons Learned.* Accepted for presentation at the 2020 International Seating Symposium, Vancouver, BC.

**Rice, L.A.,** Yarnot, R., Mills, S. (2019, Nov. 3-8). *A Pilot Investigation of Anterior Tilt Use Among Power Wheelchair Users.* Accepted for presentation as a poster at the American Congress of Rehabilitation Medicine 96th Annual Conference, Chicago, IL.

Sung, J.S., Peterson, E., Backus, D., Sosnoff, J.J., **Rice, L.A.** (2019, Nov. 3-8) *Falls, Transfers, Wheelchair Skills and Sitting Balance Among Wheelchair and Scooter Users with Multiple Sclerosis.* Accepted for presentation as a poster at the American Congress of Rehabilitation Medicine 96th Annual Conference, Chicago, IL.

Fecske, C., **Rice, L.A.,** Forber-Pratt, A. (2019, Nov. 2-6). *An Exploration of Experiences in Disability Sport and Mainstream Sports Environments for Young Adults with Physical Disabilities.* Accepted for presentation as a poster at the American Public Health Association’s 2019 Annual Meeting and Expo, Philadelphia, PA.

Sanford, J., Remillard, E.T., Sosnoff, J.J., **Rice, L.A**., Koon, L. (2019, November 5-8). *Rehabilitation Technologies to Support Aging-In-Place for People with Long-Term Mobility Disabilities.* Accepted for presentation as a symposia at the American Congress of Rehabilitation Medicine 2019 Annual Conference, Chicago, IL.

Rice, I.M., Sung, J.H., Fliflet, A., **Rice, L.A.** (2019, March 18-22). *Influence of Transfer Height on Key Measures of Technique.* Presented at the 2019 International Seating Symposium, Pittsburgh, PA.

Sung, J.H.Peterson, E.W., Sosnoff, J.J., **Rice, L.A.** (2019, March 18-22). *Impact of Fear of Falling on Quality of Life and Community Participation.* Presented at the 2019 International Seating Symposium, Pittsburgh, PA.

**Rice, L.A,** Yarnot, R., Mills, S. (2019, March 18-22). *A Pilot Investigation of Anterior Tilt Among Power Wheelchair Users.* Presented at the 2019 International Seating Symposium, Pittsburgh, PA.

**Rice, L**., Isaacs, Z., Ousley, C., Sosnoff, J. (2018, September).  *Management of Fall Risk Among Whleeled Mobility Device Users with Multiple Sclerosis.*Poster presented at the Illinois Symposium on Fall Prevention sponsored by the Illinois Fall Prevention Coalition, Chicago, IL.

Van Denend, T., Peterson, E., Sung, J., Sosnoff, J. & **Rice, L.** (2018, September).  *Validation of a fall prevention program among non-ambulatory wheeled mobility device users with Multiple Sclerosis: Protocol overview.*Poster presented at the Illinois Symposium on Fall Prevention sponsored by the Illinois Fall Prevention Coalition, Chicago, IL.

Compernolle, A., **Rice, LA.** (2018, September 4-6) Anterior tilt as a power seat function for power wheelchairs – functional and clinical outcomes. Presented at the Nordic Seating Symposium 2018, Copenhagen, Denmark.

**Rice, L.A.,** Sung, J.H., Keane, K., Petersons, L., Sosnoff, J.J. (2018, September 2-5) Influence of A Fall Prevention Education Program for Manual Wheelchair Users with Spinal Cord Injuries. Presented at the 2018 Educational Conference of the Academy of Spinal Cord Injury Professionals, New Orleans, LA.

Worobey, L., Huzinec, R., Rigot, S., **Rice, L.A.** (2018, September 2-5) Independent Transfers: Assessment, Training and Implications of Technique. Presented at the 2018 Educational Conference of the Academy of Spinal Cord Injury Professionals, New Orleans, LA.

Yang, T.D., **Rice, L.A.,** Jan, YK. (2018, July 11-15) *Typifying power wheelchair joystick control using EmG feature and channel selection.* Presented as a poster at the Rehab Engineering Society of North America (RESNA) 2018 Annual Conference, Arlington, VA.

Peterson, E.W.; Sosnoff, J.J.; Sung, J.H.; **Rice, L.A.** (2018, May 31-June 2)Understanding Falls among Full-time Wheelchair Users with Multiple Sclerosis: A Mixed Methods Study. Presented at the 23rd Annual Rehabilitation in Multiple Sclerosis (RIMS) Conference, Amsterdam.

**Rice, L.A.,** Sung, JH, Peters, J, Sosnoff, J.J. (2018, March 6-9) *Best Practices in Management of Fall Risk Among Power Wheelchair Users.* Presented at the 34th International Seating Symposium, Vancouver, BC.

**Rice, L.A.,** Sung, JH., Trace, Y., Peterson, E.W., Sosnoff, J.J. (2017, September 3-6) *Fall Characteristics of Full Time Wheelchair Users Living with Spinal Cord Injury.*  Presented at the Academy of Spinal Cord Injury Professional 2017 Educational Conference and Expo, Denver, Co.

**Rice, LA.,** Isaacs, Z.J., Ousley, CM., Sosnoff, JJ. (2017, March 1 – 3) *Transfer Training for Wheelchair Users with Multiple Sclerosis.* Presented at the International Seating Symposium, Nashville, TN.

Dysterheft, J., Chaparro, G., Jones, O., **Rice, LA**., Rice, I.M. (2016, September 21-23) *Investigating the Outcomes and Perceptions of an Aquatic Exercise Class for University Students With Physical Disabilities.* Presented at the North American Federation of Adapted Physical Activity Conference. Edmonton, Alberta, Canada.

**Rice, LA.,** Kalron, A., Berkowitz, S.H., Backus, D., Sosnoff, J.J. (2016, October 30-November 4) *Fall Prevalence in Wheeled Mobility Device Users Living With Multiple Sclerosis.* Presented as a poster at the American Congress of Rehabilitation Medicine 93rd Annual Conference. Chicago, IL.

Worobey, L.A., Hogaboom, N.S., **Rice, L.A.,** Koontz, A.M., Boninger, M.L. (2016, October 30-November 4) *Independent Transfers: Why Technique is Important, How to Teach It, and Does Training Change It?* Presented at the American Congress of Rehabilitation Medicine 93rd Annual Conference., Chicago, IL.

**Rice, L.A.,** Sung, J., Keane, K., Sosnoff, J.J. (2016, September 4-7) *Management of Fall Risk Among Full Time Wheelchair Users Living with Spinal Cord Injury.* Presented at the Academy of Spinal Cord Injury Professionals 2016 Educational Conference and Expo, Nashville, TN.

Sung, JH, Keane, K., Sosnoff, J.J., **Rice, LA.** (2016, September 4-7) *The effectiveness of a home-based exercise program on seated postural control in individuals with spinal cord injury.* Presented as a poster at the Academy of Spinal Cord Injury Professionals 2016 Educational Conference and Expo, Nashville, TN.

**Rice, L.A.,** Dysterheft, J., Rice, I.M. (2016, March 1-4) *Impact of Transfer Training Among Full Time Pediatric Wheelchair Users.* Presented at the International Seating Symposium, Vancouver, Canada.

Rogers, E., Berner, T., Mitchell, S., **Rice, L.A.** (2015, September 7-9) *Advanced Seating and Positioning For the Rehabilitation Professional,* Accepted for Presentation at the Annual Meeting of the Academy of Spinal Cord Injury Professionals., New Orleans, LA. (invitation)

**Rice, LA,** Isaacs, ZJK., Ousley, CM., Sosnoff, JJ (2015, October 25-30) *Impact of Transfer Training on Non-Ambulatory Individuals Living with Multiple Sclerosis.* Presented as a poster at the American Congress of Rehabilitation Medicine 92nd Annual Conference, Dallas, Tx.

Yang, T.D., **Rice, L.A.,** Jan, Y. (2015, June 10-14) *Myoelectric Modeling of Joystick Control for Self-Adaptive Smart Wheelchairs,* Presented at the Rehabilitation Engineering and Assistive Technology Society of North America Annual Conference, Denver, CO. *Student Award Winner.*

Dysterheft, J., Rice, I.M., **Rice, L.A.** (2015, June 10-14) *Influence of Handrim Wheelchair Propulsion Training in Adolescent Wheelchair Users,* Presented at the Rehabilitation Engineering and Assistive Technology Society of North America Annual Conference, Denver, CO. *Student Award Winner.*

**Rice, L.A.,** Ousley, C., Sosnoff, J.J. (2015, February 25-28) *Assessment and Management of Fall Risk in Wheelchair Users: A Systematic Review,* Presented at the International Seating Symposium, Nashville, TN.

Rice, I.M., **Rice, L.A.** (2015, February 25-28) *Physical Activity Intervention for Persons with Advanced Multiple Sclerosis,* Presented at the International Seating Symposium, Nashville, TN.

Isaacs, ZJK., Ousley, CM., **Rice, LA**, Sosnoff, JJ (2014, October 10-11) *Seated Postural Control in Non-Ambulatory Persons with Multiple Sclerosis.* Presented as a poster at the 4th International Symposium of Gait and Balance in Multiple Sclerosis. Cleveland, Ohio.

Ousley CM, Isaac ZJK, Wajda DA, **Rice LA,** Sosnoff JJ. (2014, October 10-11) *Validation of seated postural control measures in persons with multiple sclerosis*. Presented as a poster at the 4th International Symposium of Gait and Balance in Multiple Sclerosis. Cleveland, Ohio

Chruzander, C., Johansson, S., Peterson, E.W., **Rice, L.A**., Sosnoff, J.J., von Koch, L., Widen Holmqvist, L., Ytterberg, C. (2014, September 10-13) *Falls Among Non-Ambulatory Individuals with Multiple Sclerosis: An International Expert Panel Consensus Statement.* Presented as a poster at the 2014 Joint ACTRIMS-ECTRIMS Meeting.

Rogers E, **Rice LA**, Wehrli L, Piltier J, Baldessari J, Severe E, Jennings J. *Therapy in the Era of Technology.* (2014, August 31-September 3) Presented at the Annual Meeting of the Academy of Spinal Cord Injury Professionals., St. Louis, MO

**Rice LA,** Smith I, Kelleher A, Greenwald K, Boninger, ML. (2014 August 31-September 3) *Improving Transfer Quality Among Persons Living with Tetraplegia.* Presented at theAnnual Meeting of the Academy of Spinal Cord Injury Professionals; St. Louis, MO.

Learmonth, Y.C., Rice, I.M., Ostler, T., **Rice, L.A**., Motl, R.M. (2014, May 28-31) *Perspectives on physical activity among persons with multiple sclerosis who are wheelchair users: Informing the design of future interventions.* Presented as a poster at CMSC ACTRIMS Cooperative Annual Meeting.

**Rice, LA,** Goldberg, M**.** (2014, March 4-7) *How to Optimize Your Continuing Education: A Necessary Benefit to Improve Your Practice*, Presented at the International Seating Symposium, Vancouver, Canada.

Betz, K., Rice, I.M., Svirvev, J., Cahow, C., Rogers, E., Schmeler, M., Bieganek, J., **Rice, L.A.** (2013, September 2-4) *Paralyzed to Paralympics and Everything Between: Adaptive Sports and Recreation*. Presented at the Annual Meeting of the Academy of Spinal Cord Injury Professionals; Las Vegas, NV.

**Rice, LA,** M.L. Boninger. (2013 September 2-4)*Comparison of Level of Injury on Community Participation and Satisfaction with Life in the First Year After Spinal Cord Injury,* Presented at the Annual Meeting of the Academy of Spinal Cord Injury Professionals; Las Vegas, NV.

Hogaboom, N.S., B.F. Fullerton., **L.A. Rice**, M.L. Oyster, M.L. Boninger. (2013 June 20-24) *Ultrasound changes, pain, and pathology in shoulder tendons after repeated wheelchair transfers,* Presented at theRESNA International Conference on Technology and Disability, Bellevue, WA.

Jan YK, Crane BA, **Rice LA**, and Ennis WJ. (2013 June 20-24) *Muscle and skin perfusion over the ischial tuberosities in response to wheelchair tilt and recline in people with spinal cord injury* Presented at the RESNA International Conference on Technology and Disability, Bellevue, WA.

Jan YK, Liao F, **Rice LA**, and Woods JA. (2013, May 6-8) *Using reactive hyperemia to assess the efficacy of local cooling on reducing skin ischemia under surface pressure in people with spinal cord injury*” Presented at the American Spinal Injury Association Annual Conference, Chicago, IL.

Beaunchamp, D.W, N.S. Hogaboom, B. Fullerton, **L.A. Rice**, M.L. Boninger. (2013 March 6-10) *Ultrasound Changes in Shoulder Tendons in Response to Repeated Transfers.* Presented at the Association of Academic Physiatrists Annual Conference. New Orleans, LA.

**Rice, L.A.** B. Hedrick. (2013, March 5-9) *Use of Environmental Control Units by Power Wheelchair Users in Higher Education* Presented at the International Seating Symposium, Nashville, TN.

**Rice, LA,** Boninger, ML, Smith, I**.** (2012, March 7-9) *Randomized Clinical Trial to Evaluate the Implementation of Clinical Practice Guidelines on Transfer Skills and Quality* Presented at the International Seating Symposium, Vancouver, Canada.

**McClure, LA,** Koontz AM (2011, March 3-5) *The Transfer Assessment Instrument for Measuring Transfer Performance* Presented at the International Seating Symposium Nashville, TN.

Koontz, AM, **McClure, LA** (2010, September 22-24) *Measuring Transfer Performance: Adherence with Evidence-Based Practices Concerning Preservation of Upper Limb Function in Patients with Spinal Cord Injury* Presented at the Annual Meeting of the Academy of Spinal Cord Injury Professionals; Las Vegas, NV.

**McClure, LA,** M.L. Boninger. (2010, March 10-13) *Implementation of Clinical Practice Guidelines Strategies* Presented at the International Seating Symposium; Vancouver, Canada.

**McClure, LA** (2009, September 15-17) *Implementation of Clinical Practice Guidelines Strategies*, Presented at the European Seating Symposium; Dublin, Ireland.

C. M. Heiner,**L.A. McClure**, Z. Talmadge, M.L. Boninger. (2009, June 23-27) ***A Prototype Web Site for Clinical Education: Implementation of Guidelines for Preventing Upper Limb Pain in People with Spinal Cord Injury* Presented at**the Rehabilitation Engineering and Assistive Technology Society of North America Conference, New Orleans, LA.

**McClure, L.A**., M.L. Boninger, M.L Oyster, J.A. Lieberman. (2009, June 23-27) *Prevalence and Impact of Wheelchair Breakdowns on Fulltime Wheelchair Users,* Presented at the Rehabilitation Engineering and Assistive Technology Society of North America Conference, New Orleans, LA.

**McClure, LA,** M.L. Boninger. (2009, March 11-14) *Implementation of Clinical Practice Guidelines Strategies* Presented at the International Seating Symposium; Orlando, FL.

*Other Publication*

Boninger, M.L, J. Carswell, **L.A. McClure**. (2008) Preservation of Upper Limb Function: What you should know. Consortium for Spinal Cord Medicine: Washington DC.

**Teaching Experience**

Instructor: KIN/CHLH 110: Introduction to the Health Sciences (Department of Kinesiology and Community Health, University of Illinois)

*Fall 2016*

Instructor: CHLH/REHB/KIN 407/ANTH 404: Disability, Culture and Society (Department of Kinesiology and Community Health, University of Illinois)

*Spring 2016*

Instructor: CHLH 494: Aging and Disability (Department of Kinesiology and Community Health, University of Illinois)

*Spring 2015*

Supervisor: KIN 385: Experience in Kinesiology Research (Department of Kinesiology and Community Health, University of Illinois)

*Spring 2014, Fall 2014, Spring 2015, Spring 2016, Spring 2017, Summer 2017, Fall 2017, Spring 2018, Fall 2018, Spring 2019, Fall 2019, Spring 2020*

Instructor: CHLH/REHB 330: Disability in American Society (Department of Kinesiology and Community Health, University of Illinois)

*Fall 2013, Fall 2014, Spring 2016, Fall 2016, Spring 2017, Fall 2017, Spring 2018, Fall 2018, Spring 2019, Fall 2019, Spring 2020*

Instructor: KIN/CHLH 199: Introduction to the Health Sciences (Department of Kinesiology and Community Health, University of Illinois, now KIN/CHLH 110)

*Fall 2012, Fall 2013, Fall 2014*

Instructor: HRS 2705: Rehabilitation Engineering and Assistive Technology Practices (School of Health and Rehabilitation Science, University of Pittsburgh),

*Spring 2011*

Teaching Assistant – HRS 3701 Clinical Application of Seating (School of Health and Rehabilitation Science, University of Pittsburgh)

*Spring 2009*

Teaching Assistant – Introduction to Physical Therapy (Department of Physical Therapy, Duquesne University)

*Spring 2003*

**Students Advised**

Master’s Students Directed

* Isaacs, Zadok, MS, 2015 “*Effect of an Exercise Based Intervention on Seated Postural Control in Non-Ambulatory Persons with Multiple Sclerosis*,” now at Sanford Health (chair)
* Peters, Joseph, MS, 2017*, “Wheelchair Racing Pressure Analysis,”* now a PhD student at UIUC (chair)
* Yarnot, Rebecca, MS, 2019, “*Perceptions of Anterior Tilt Seat Function Among Power Wheelchair Users: A Qualitative Study*” (chair)
* Dandeneau, Kady, MS, *TBD,* current MS student
* Fliflet, Alexander, MS, *TBD*, current MS student

Master’s Committees

* Hernanez, Maria Luisa Toro, MS, 2011, “*The Impact of Transfer Setup on the Performance of Independent Transfers,”* now at Universidad CES, Medellin, Columbia, Facultad de Medicina (committee member)
* Sung, Jong Hun, MS, 2013 “*Effect of a 2 Minute Bout of Body Weight Supported Treadmill Training on the Ankle Spasticity in Persons with Advanced Multiple Sclerosis*,” now an Assistant Professor at Idaho State University
* Ousley, Cherita, MS, 2015 *“Validation of Seated Postural Control Measures in Non-Ambulatory Persons with Multiple Sclerosis,”* now a Software Engineer at Microsoft (committee member)
* Frechette, Mikaela, MS, 2019, *The Validity, Reliability and Sensitivity of a SmartPhone-Based Seated Postural Control Assessment in Wheelchair Users,“* now a PhD student at UIUC. (committee member)

Dissertations Directed

* Fecske, Courtney, PhD, 2019, “*An Exploration of Experiences in Disability Sport and Mainstream Sport Environments for Adolescents with Physical Disabilities”* (Chair) now a Clinical Assistant Professor at Indiana University – Bloomington
* Sung, Jong Hun, PhD, 2019, “*Fall Management Among Full Time Wheelchair Users,”* (Chair)now an Assistant Professor at Idaho State University
* Abou, Libak, PhD, in progress, “*Effect of Unsupported Sitting Balance Training on Falls, Functional Independence and Quality of Life of People with Spinal Cord Injury*”, anticipated graduation May 2021, (Chair)
* Yarnot, Rebecca, PhD, in progress, *TBD, anticipated graduation May 2022*

Doctoral Committees

* Tsai, Chung-Ying, PhD, 2015, “*Biomchanical Validation of the Transfer Assessment Instrument (TAI) in Evaluating Different Independent Transfers in Wheelchair Users,*” now an Assistant Professor at the Icahn School of Medicine, Mt. Sinai (committee member)
* Hsieh, Katherine, PhD, In Progress, *“Fall Risk Assessment with Mobile Technology for People with Multiple Sclerosis,”* current student.
* Lindahl-Lewis, Paige., In Progress, *“Emotional Intelligence in Relation to College Students with Disabilities Adaptation to College,”* current student

Clinical Advanced Degree Committees

* van Denend, Toni, OTD, In Progress, “*Process Evaluation of a Fall Prevention Program for Wheeled Mobility Users with Multiple Sclerosis.*

International Graduate Mentoring Program Students:

* Yufan Lu – Fall 2019
* Siqi Zhu – Spring 2020

**Service**

Public Engagement

* Provision of wheeled mobility and seating services to UIUC students and Champaign-Urbana community members.
* *Aid UIUC students and Champaign-Urbana community members to obtain wheeled mobility devices to enhance their quality of life and community participation. To perform these tasks, I must maintain an Assistive Technology Professional certification that requires completion of 30 hours of continuing education every other year.*
* Professional Memberships:
  + 1. Member Academy of Spinal Cord Injury Professionals, 2012 - present
    2. Member, American Physical Therapy Association, 2003 – present
    3. Member Aqua Therapy and Rehabilitation Institute, 2011- 2013
    4. Member, Rehabilitation Society of North America, 2007-2009
* Certifications:
  + 1. Licensed Physical Therapist in Illinois, 2011-present
    2. Certified Assistive Technology Provider (ATP), 2010- present
    3. Licensed Physical Therapist in Pennsylvania, 2004-2015 (current: Inactive status)

Service to Disciplinary and Professional Societies or Associations

* ASCIP Therapy Leadership Committee Board of Director Executive Committee Secretary, 2019 - present
* ASCIP Therapy Leadership Council, Board of Directors Member, 2018 - 2019
* Illinois Physical Therapy Association Nominating Committee Chair, 2015 - present
* Illinois Physical Therapy Association Assembly Representative: 2018- present
* Academy of Spinal Cord Injury Professionals (ASCIP) Electronic Communication Committee Chair*,* 2015-2018
* Journal Reviewer for:
  + 1. Assistive Technology
    2. Archives of Physical Medicine and Rehabilitation
    3. BioMed Research International
    4. British Medical Journal
    5. Clinical Rehabilitation
    6. Cogent Medicine
    7. Disability and Rehabilitation
    8. International Biomechanics
    9. International Journal of Physical Medicine and Rehabilitation
    10. Journal of Health Psychology
    11. Journal of Rehabilitation Research and Development
    12. Journal of Spinal Cord Medicine
    13. Journal of Sport and Health Science
    14. Medical Journals
    15. Open BioMedical- Geriatrics
    16. Physiotherapy Research International
    17. PLOS ONE
    18. Spinal Cord
    19. Topics in Spinal Cord Injury Rehabilitation

University/Campus Service

* Committee Member, Search Committee: Health Technology, 2019
* Chair, KCH Honors and Awards, 2018-present
* Committee Member, Health Disparities and Disability Concentration, 2013-present
* Committee Member, Search Committee: DPT Founding Director, 2019-2019
* Committee Member, Search Committee: AHS IT Specialist, 2017 – 2018.
* Committee Member, Search Committee: Visiting Research Specialist, Center for Wounded Veterans in Higher Education, 2017-2018
* Committee Member, Search Committee: Teaching Assistant Professor in Community Health, 2017-2018
* Committee Member, Elections and Credential Committee, 2017-2019
* Chair, College Grievance Committee, 2016- 2018
* Committee Member, Community Health Curriculum Review, 2017- present
* Committee Member, KCH Honors and Awards, 2016 - 2017
* Creation and maintenance of the Disability Resources and Educational Services Research Registry, 2016 - present
* Committee Member, Search Committee: Assistant Director for the Center for Wounded Veterans in Higher Education, 2016-2017
* Committee Member, Alleged Capricious Grading, 2014-2016
* Committee Member, Search Committee: Falls/Fall Prevention, 2013-2014

Review Panels

Abstracts/Posters

* 2020, Academy of Spinal Cord Injury Professional, Poster Review Committee for the 2020 Educational Conference of the Academy of Spinal Cord Injury Professionals.
* 2019, Academy of Spinal Cord Injury Professional, Poster Review Committee for the 2019 Educational Conference of the Academy of Spinal Cord Injury Professionals.
* 2018, Academy of Spinal Cord Injury Professional, Abstract Review Committee for the 2019 Educational Conference of the Academy of Spinal Cord Injury Professionals.
* 2014, Academy of Spinal Cord Injury Professional, Poster Review Committee for the 2014 Educational Conference of the Academy of Spinal Cord Injury Professionals.

Grants

* 2020, University of Illinois at Urbana-Champaign Jump ARCHES Endowment
* 2019, University of Illinois at Urbana-Champaign Research Board, Research Board Grant Review.
* 2018, University of Illinois at Urbana-Champaign Research Board, Research Board Grant Review.
* 2014, Graduate Student Travel Award

**Research Interests**

* Preventing development of secondary impairments for persons with disabilities
* Provision of effective education for persons with disabilities
* Community Integration of Individuals with Disabilities
* Professional Education
* Development of Outcome Measures

Updated 4/20/20