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EDUCATION

2009	Ph.D.	Experimental Psychology	University of Connecticut, USA
2009	Certificate	Quantitative Methods	University of Connecticut, USA
2004	M.S.	Rehabilitation Science	UFMG, Brazil
2000	B.A.	Physical Therapy	UFMG, Brazil

ACADEMIC APPOINTMENTS

2019 - present	<i>Co-Director of Graduate Training, PhD in Psychology</i> Psychology Department, University of Cincinnati
2016 - present	<i>Assistant Professor</i> Psychology Department, University of Cincinnati
2010 - 2015	<i>Assistant Professor</i> Department of Physical Therapy, Universidade Federal de Minas Gerais
2009 - 2010	<i>Postdoctoral Research Fellow</i> Rehabilitation Science Program, Universidade Federal de Minas Gerais.
2004 - 2005	<i>Adjunct Professor</i> Physical Therapy Department, Pontificia Universidade Catolica de Minas Gerais (PUC-MG).

RESEARCH FUNDING

Awards

2019 – 2020	Co-Investigator (PI: Michael Riley). <i>Human Performance & Neuromechanics</i> and for personalizing treatment in health-related disorders/injuries. Digital Futures Anchor Team, University of Cincinnati. Amount: US\$10,000.00.
2019 – 2020	Co-Investigator (PI: Kelly Cohen). Bio-Inspired Computational Intelligence (BICoIn) for Personalization: Genetic fuzzy based AI for effective real-time decision making in military/commercial applications and for personalizing treatment in health-related disorders/injuries. Digital Futures Anchor Team, University of Cincinnati. Amount: US\$10,000.00.
2019 - 2021	Co-Investigator (PI: Adam Kiefer). Leveraging artificial intelligence to profile and enhance phenotypic plasticity for second injury prevention: An innovative precision medicine platform to revolutionize injury care, NIH NIBIB Trailblazer R21. <u>Amount: US\$493,881.</u>

- 2017 - 2018 Co-Principal Investigator (with Kiefer, A. (PI), Myer, G (Co-PI)). Biofeedback-Enhanced Phenotypic Plasticity to Alter Collision Injury Mechanisms, GAP Awards, Cincinnati Children's Hospital Medical Center. Amount: US\$42,697.00.
- 2017 - 2018 Co-Principal Investigator (with Kiefer, A. (PI), Cohen, K., Makbibi, A. (Co-PIs). Genetic fuzzy artificial intelligence virtual reality training for collision-based injury prevention I sport. Submitted to Cincinnati Children's Research, Innovation & Pilot (RIP) Awards. Amount: US\$74,052.
- 2016 – 2017 Principal Investigator. Unraveling the relation between Motor Behavior and Cognitive Performance: A foundational Experiment. Source: Seed Award, UC LEAF; Amount: US\$2924.49.
- 2015 – 2015 Principal Investigator (w/ Sergio T. Fonseca) [*Exploring the interface between biomechanics and coordination*]. Funding Agency: Fundacao de Amparo a Pesquisa de Minas Gerais [Minas Gerais Foundation of Research Support]; proposal ID APQ-02648-14. Amount: R\$ 46,823.95; ~ US\$17,803.00.
- 2013 – 2015 Co-Principal Investigator (w/ Sergio T. Fonseca, Juliana M. Ocarino, Thales de Souza). [*Development of a tensegrity suit for optimization of sensing capabilities and functional movements of children with disabilities*]. Funding agency: Conselho Nacional de Pesquisa CNPq [National Research Institute, Brazil]; proposal ID 458778/2013-3. Amount: R\$ 394,615.00; ~US\$ 194,300.00.
- 2012 – 2014 Principal Investigator (w/ Marisa C. Mancini). [*Dynamics of motor strategies & perceptual factors supporting performance of manual tasks in children with and without disabilities*]. Funding Agency: Fundacao de Amparo a Pesquisa de Minas Gerais [Minas Gerais Foundation of Research Support]; proposal ID CDS-APQ-04527-10. Amount: R\$ 27,321.00; ~US\$15,263.00
- 2011 – 2013 Principal Investigator (w/ Marisa C. Mancini). [*Dynamics of motor strategies supporting performance of manual tasks*]. Funding Agency: Conselho Nacional de Pesquisa – CNPq [National Research Institute]; proposal ID 48165/2011-6. Amount: R\$ 12,119.00, ~US\$7,257.00.
- 2010 – 2012 Principal Investigator (w/ Sergio T. Fonseca). [*Gait biomechanics and pathological development*]. Funding Agency: Conselho Nacional de Pesquisa – CNPq [National Research Institute]; proposal ID 474720/2010-1. Amount: R\$ 30,750.00, ~US\$ 15,000.00

TRAINING & PROGRAM GRANTS

- 2016 – 2017 Co-Proponent (with Michael Richardson (Coordinator), Rachel Kallen, Manish Kumar, Tamara Lorenz, Ali Minai, Michael Riley). Skills in Systems Technology for Cognitive Systems Engineering. Source: Provost Technology Innovation Award, University of Cincinnati. Amount: US\$ 200,000.
- 2012 – 2014 Co-Principal Proponent (w/ Sergio T. Fonseca, Juliana M. Ocarino).

[Updating infrastructure: proposal for an Advanced Laboratory for human performance research]. PROINFRA program UFMG [Internal, infrastructure grant].
Amount: R\$ 500,000.00; ~ US\$ 250,000.00.

PUBLICATIONS

(*) graduate and (**) undergraduate student author

Journal Articles (published & in-press)

Schwab, S. M., Andrade, V., Santos Moreira, T., Cavanaugh, J. T., Vaz, D. V., & **Silva, P. L.** (2022). Narrowing the physiotherapy knowledge-practice gap: faculty training beyond the health sciences. *Physiotherapy Theory and Practice*, 1-15.

Mendonça, L. D. M., Bittencourt, N. F. N., Freire, R. L., Campos, V. C., Ferreira, T. V., & **Silva, P. L.** (2022). Hip external rotation isometric torque for soccer, basketball, and volleyball athletes: normative data and asymmetry index. *Brazilian Journal of Physical Therapy, in press*.

Nalepka, P., **Silva, P. L.**, Kallen, R. W., Shockley, K., Chemero, A., Saltzman, E., & Richardson, M. J. (2021). Task dynamics define the contextual emergence of human corralling behaviors. *PloS one*, 16(11).

Alt, J.M.*, Kiefer, A.W., MacPherson, R., Davis, T.J., Silva, P.L. (2021). The effect of navigation demand on decision making in a dynamic, sport-inspired, virtual environment. *Journal of Sport and Exercise Psychology*, 43(5), 375-386.

Schwab., S.M.*, Pinto, V.A.*, Kloos, H., Riley, M.A., **Silva, P.L.** (2021). Unpredictable Task Demands and Motor Performance in Individuals with Neuromotor Disability: A Scoping Review. *Physical Therapy Reviews*, accepted.

Hornestam, J. F., Arantes, P. M. M., Souza, T. R., Resende, R. A., Aquino, C. F., da Fonseca, S. T., & **Silva, P. L.** (2021). Foot pronation affects pelvic motion during the loading response phase of gait. *Brazilian Journal of Physical Therapy, in press*.

Teixeira, A. S.** , **Silva, P. L.**, Cintra, S. P., Viegas, F.** , Mendonça, L. D., & Bittencourt, N. F. (2021). Concurrent Validation and Reference Values of Gluteus Medius Clinical Test. *International Journal of Sports Physical Therapy*, 16(2), 335.

Grover, F. M. *, Riehm, C. *, **Silva, P. L.**, Lorenz, T., & Riley, M. A. (2021). Grip force anticipation of nonlinear, underactuated load force. *Journal of Neurophysiology*, 125(5), 1647-1662.

Schwab, S.M.*, Carver, N*, Forman², M.H., Abney, D.H., Davis, T.J., Riley, M.A., Paxton, A., **Silva, P.L.** (2021). Child-Caregiver Interactions During a Collaborative Motor Task in Children with Cerebral Palsy: A Descriptive Exploratory Study, accepted for publication.

Cardoso, V.A.*, Resende, R.A., Aquino, C.F., Andrade, A.G.P., **Silva, P.L.**, Amaral, G.M., Fonseca, S.T., Ocarino, J.M. (2021). A novel single-leg squat test with speed and accuracy requirements: Reliability and validity in anterior cruciate ligament reconstructed individuals. *The Knee*, 29, 150-159

Raja, V., **Silva, P. L.**, Holghoomi, R., & Calvo, P. (2020). The dynamics of plant nutation. *Scientific reports*, 10(1), 1-13.

- Schwab, S. M.*, Grover, F. M.*, Abney, D. H., **Silva, P. L.**, & Riley, M. A. (2020). Children and adolescents with cerebral palsy flexibly adapt grip control in response to variable task demands. *Clinical Biomechanics*, 80, 105149.
- Hill, Y., Kiefer, A. W., **Silva, P. L.**, Van Yperen, N. W., Meijer, R. R., Fischer, N., & Den Hartigh, R. J. (2020). Antifragility in climbing: determining optimal stress loads for athletic performance training. *Frontiers in psychology*, 11.
- Chagas, P. S., Fonseca, S. T., Santos, T. R., Souza, T. R., Megale, L., **Silva, P. L.**, & Mancini, M. C. (2020). Effects of baby walker use on the development of gait by typically developing toddlers. *Gait & Posture*, 76, 231-237.
- Grover, F. *, Schwab, S. *, **Silva, P.**, Lorenz, T., Riley, M. (2019). Flexible organization of grip force control during movement frequency scaling. *Journal of neurophysiology*, 122: 2304-2315.
- Fleuchaus, E. *, Kloos, H., Kiefer, A. W., & **Silva, P. L.** (2019). Complexity in Science Learning: Measuring the Underlying Dynamics of Persistent Mistakes. *The Journal of Experimental Education*, 1-22.
- Avelar, B. S.*, Mancini, M. C., Fonseca, S. T., Kelty-Stephen, D. G., de Miranda, D. M., Romano-Silva, M. A., & **Silva, P. L.** (2019). Fractal fluctuations in exploratory movements predict differences in dynamic touch capabilities between children with Attention-Deficit Hyperactivity Disorder and typical development. *PloS one*, 14(5), e0217200.
- Montalvo, A.M., Schneider, D.K., **Silva, P.L.**, Yut, L., Webster, K.E., Riley, M.A., Kiefer, A.W., Doherty-Restrepo, J.L., Myer, G.D. 'What's my risk of sustaining an ACL injury in soccer: A systematic review with meta-analysis. (2019). *British Journal of Sports Medicine*, 53(21), 1333-1340.
- Riehm, C. *, Chemero, A., **Silva, P.L.**, Shockley, K. (2019). Virtual auditory aperture passability. *Experimental Brain Research*, 237(1).
- Kiefer, A. W., **Silva, P. L.**, Harrison, H. & Araujo, D. (2018). Antifragility in sport: Leveraging adversity to enhance performance. *Sport, Exercise, and Performance Psychology*, 7, 342-350
- Grooms, D.R., Kiefer, A.W., Riley, M.A., Ellis, J.D., Thomas, S., Kitchen, K., DiCesare, C., Bonnette, S., Gadd, B., Barber Foss, K., Yuan, W., **Silva, P.L.**, Galloway, R., Diekfuss, J., Leach, J., Berz, K., Myer, G.D. (2018). Brain-Behavior Mechanisms for the Transfer of Neuromuscular Training Adaptions to Simulated Sport: Initial Findings from the Train the Brain Project. *Journal of sport rehabilitation*, 1-14.
- Grover, F. *, Lamb, M., Bonnette, S., **Silva, P. L.**, Lorenz, T., & Riley, M. A. (2018). Intermittent coupling between grip force and load force during oscillations of a hand-held object. *Experimental brain research*, 1-14.
- Grover, F. M. *, Nalepka, P. *, **Silva, P. L.**, Lorenz, T., & Riley, M. A. (2018). Variable and intermittent grip force control in response to differing load force dynamics. *Experimental brain research*, 1-17.
- Aquino, M. R.*, Avelar, B. S. *, **Silva, P. L.**, Ocarino, J. M., & Resende, R. A. (2018). Reliability of Foot Posture Index in individual and total scores for adults and older adults. *Musculoskeletal Science and Practice*, 36, 92-95.

- Pinto, T.P.S.*, Fonseca, S.T., Goncalves, R.V., Souza, T.R., Vaz, D.V., **Silva, P.L.**, Mancini, M.C. (2018). Mechanisms contributing to gait speed and metabolic cost in children with unilateral cerebral palsy. *Brazilian Journal of Physical Therapy*, 22 (1), 42-48.
- Vaz, D.V., **Silva, P.L.**, Mancini, M.C., Carello, C., Kinsella-Shaw, J.M. Towards an ecologically grounded functional practice in rehabilitation (2017). *Human Movement Science (Print)* v. 52, p. 117-132.
- Souza T.R.* , Araujo V.L., **Silva P.L.**, Carvalhais V.O.C., Resende R.A., Fonseca S.T. (2016). External rotation elastic bands at the lower limb decrease rearfoot eversion during walking: a preliminary proof of concept. *Brazilian Journal of Physical Therapy*, 20(6): 571-579
- Hornestam, J.F.* , Souza, T.R., Arantes, P., Ocarino, J., **Silva, P.L.** (2016). The effect of walking speed on foot kinematics is modified when increased pronation is induced. *Journal of the American Podiatric Medical Association*, in press.
- Silva, P.L.**, Bootsma, R.J., Figueiredo, P.R.P., Avelar, B.S., Andrade, A.G.P., Fonseca, S.T., Mancini, M.C. (2016). Task difficulty and inertial properties of hand-held tools: An assessment of their concurrent effects on precision aiming. *Human Movement Science*, 48, 161-170.
- Figueiredo, P.R.P.* , **Silva, P.L.**, Avelar, B.S., Fonseca, S.T., Bootsma, R.J., Mancini, M.C. (2015). Upper limb performance and the structuring of joint movement in teenagers with cerebral palsy: the reciprocal role of task demands and action capabilities. *Experimental Brain Research*, 233:1155-1164.
- Resende, R.A.* , Fonseca, S.T., **Silva, P.L.**, Pertence, A.E.M., Kirkwood, R.N. (2014). Forefoot midsole stiffness affects forefoot and rearfoot kinematics during the stance phase of gait. *Journal of the American Podiatric Medical Association*, 104(2), 183-90.
- Souza, T.R., Mancini, M.C., Araujo, V.L.* , Carvalhais, V.O.C.* , Ocarino, J.M., **Silva, P.L.**, Fonseca, S.T. (2013). Clinical measures of hip, foot-ankle mechanics as predictors of rearfoot motion and posture. *Manual Therapy*, 19(5), 379-385.
- Santos, T.R.T.* , Andrade, J.A.** , Silva, B.L.** , Garcia, A.F.A. ** , Persichini, J.G.W.** , Ocarino, J.M., **Silva, P.L.** (2013). Active control stabilization of pelvic position in the transverse plane: An evaluation of soccer players' performance. *Physical Therapy in Sport*, 15(3),189-93.
- Resende, R.A.* , Fonseca, S.T., **Silva, P.L.**, Magalhaes, C.M.B.** , Kirkwood, R.N. (2013). Women with early stages of knee osteoarthritis demonstrate lower mechanical work efficiency at the knee. *Topics in Geriatric Rehabilitation*, 29, p. 62-66.
- Rodrigues, E.B.** , Chagas, P.S.C.* , **Silva, P.L.**, Kirkwood, R.N., Mancini, M.C. (2013). Impact of leg length and body mass on the stride length and gait speed of infants with normal motor development: A longitudinal study. *Brazilian Journal of Physical Therapy*, 17(2),163-9.
- Carvalhais, V.O.C.* , Ocarino, J.M., Araujo, V.L.* , Souza, T.R., **Silva, P.L.**, Fonseca, S.T. (2013). Myofascial force transmission between the latissimus dorsi and gluteus maximus muscles: An *in vivo* experiment. *Journal of Biomechanics*, 46, 1003-1007.
- Ocarino, J.M., Fonseca, S.T., **Silva, P.L.**, Pavan, G.G.* , Souza, T.R. Mancini, M.C. (2013). Dynamic touch is affected in children with cerebral palsy. *Human Movement Science*, 33, 85-96.

- Figueiredo, E.M.**, **Silva, P.L.**, Avelar, B.S.**, Chagas, P.S.C.*, Oliveira, L.C.P.**, Mancini, M.C. (2013). Assessment of gait in toddlers with normal motor development and in hemiplegic children with mild motor impairment: a validity study. *Brazilian Journal of Physical Therapy*, 17, 359-366.
- Silva, P.L.**, Turvey, M.T. (2012). The role of haptic information in shaping coordination dynamics: Inertial frame of reference hypothesis. *Human Movement Science*, 31, 1014-1036.
- Frank, T., **Silva, P.L.**, Turvey, M.T. (2012). Symmetry axiom of Haken Kelso Bunz coordination dynamics revisited in the context of cognitive activity. *Journal of Mathematical Psychology*, 56, 149-165.
- Resende, R.A.*, Fonseca, S.T., **Silva, P.L.**, Magalhaes, C.M.B.* , Kirkwood, R.N. (2012). Power at hip, knee and ankle joints are compromised in women with mild and moderate knee osteoarthritis. *Clinical Biomechanics*, 27, 1038-1044.
- Leite, D.X.* , Vieira, J.M.M.** , Carvalhais, V.O.C.* , Araujo, V.L.,* **Silva, P.L.**, Fonseca, S.T. (2012). Relationship between joint passive stiffness and hip lateral rotator concentric torque. *Brazilian Journal of Physical Therapy*, 16, 414-421.
- Aquino, C.F., Fonseca, S.T., Goncalves, G.G.P., **Silva, P.L.**, Ocarino, J.M., Mancini, M.C. (2010). Stretching versus strength training in lengthened position in subjects with tight hamstring muscles: A randomized controlled trial. *Manual Therapy*, 15, 26-31.
- Silva, P.L.**, Harrison, S., Kinsella-Shaw, J., Turvey, M.T., Carello, C. (2009). Lessons for Dynamic Touch from a Case of Stroke-induced Motor Impairment. *Ecological Psychology*, 21, 291-307.
- Silva, P.L.**, Fonseca, S.T., Ocarino, J.M., Goncalves, G.P., Mancini, M.C. (2009). Contributions of Co-contraction and Eccentric Activity to Stiffness Regulation. *Journal of Motor Behavior*, 41, 207-218.
- Jacobs, D.M., **Silva, P.L.**, Yague, J.C. (2009). An Empirical Illustration and Formalization of the Theory of Direct Learning: The Muscle-Based Perception of Kinetic Properties. *Ecological Psychology*, 21, 45-289.
- Carello, C., **Silva, P.L.**, Kinsella-Shaw, J., Turvey, M.T. (2008). Muscle-based perception: theory, research, and implications to rehabilitation. *Brazilian Journal of Physical Therapy*. 12, 339-350.
- Ocarino, J., Fonseca, S., **Silva, P.L.**, Mancini, M.C., Goncalves, G. (2008). Alterations of stiffness and resting position of the elbow joint following flexors resistance training. *Manual Therapy*, 13, 411-418.
- Gontijo, A.P.B., Mancini, M.C., **Silva, P.L.**, Sampaio, R., Fonseca, S.T. (2008). Use of neuromotor strategies by toddlers with down syndrome and toddlers with typical development during the acquisition of independent gain. *Human Movement Science*, 27, 610-621.
- Lopresti-Goodman, S.M., Richardson, M.J., **Silva, P.L.**, Schimdt, RA. (2008). Period Basin of Entrainment for Unintentional Visual Coordination. *Journal of Motor Behavior*, 40, 3-10.
- Silva, P.L.**, Moreno, M.M., Mancini, M.C., Fonseca, S.T., Turvey, M.T. (2007). Steady-state stress at one hand magnifies the amplitude, stiffness, and non-linearity of oscillatory behavior at the other hand. *Neuroscience Letters*, 429, 64-68.

Hajnal, A., Fonseca, S.T., **Silva, P.L.**, Kinsella-Shaw, J., Turvey, M.T. (2007). Haptic Selective Attention by Foot and by Hand. *Neuroscience Letters*, 419, 5-9.

Fonseca, S.T., Ocarino, J.M., **Silva, P.L.**, Guimaraes, R.B., Oliveira, M.C., Lage, C.A. (2005). Analysis of proprioception in high functioning individuals with ACL deficient-knee. *Research In Sports Medicine: An International Journal*, 13(1), 47-61.

Fonseca, S.T., **Silva, P.L.**, Ocarino, J.M., Guimaraes, R.B., Oliveira, M.C., Lage, C.A. (2004). Analysis of dynamic co-contraction level in individuals with anterior cruciate ligament injury. *Journal of Electromyography and Kinesiology*, 14, 239-247.

Journal Articles (published in Portuguese)
[Titles translated to English]

Fonseca, S.T., Ocarino, J.M., **Silva, P.L.**, Bricio, R., Wanner, L., Costa, C. (2007). [Muscular Performance in Professional Soccer Athletes]. *Revista Brasileira de Medicina do Esporte*, 13, 143-147.

Aquino, C.F., Silva, J.M., **Silva, P.L.**, Vaz, D.V., Bricio, R., Fonseca, S.T. (2007). [The use of isokinetic dynamometry in rehabilitation and sports sciences]. *Revista Brasileira de Ciencia e Movimento*, 15, 28-32.

Ocarino, J.M., **Silva, P.L.**, Aquino, C.F., Vaz, D.V., Bricio, R.B., Fonseca, S.T. (2005). [Electromyography: Interpretation and use in Rehabilitation Sciences]. *Fisioterapia Brasil*, 6(4), 305-310.

Fonseca, S.T., Ocarino, J.M., **Silva, P.L.** (2004). [Regulation of Muscle Stiffness through the Gamma-muscle-spindle system: Implications to Joint Stability Control]. *Revista Brasileira de Fisioterapia*, 8(3), 187-195.

Fonseca, S.T., Ocarino, J.M., **Silva, P.L.**, Lage, C.A., Guimaraes, R.B., Oliveira, C. (2003). [Analysis of proprioception and its relation to the functional performance of individuals presenting deficiency of the Anterior Cruciate Ligament]. *Revista Brasileira de Fisioterapia*, 7(3), 253-259.

Fonseca, S.T., **Silva, P.L.**, Ocarino, J.M., Ursini, P.G.S. (2001). [Analysis of an EMG method for the quantification of muscular co-contraction]. *Revista Brasileira de Ciencia e Movimento* 9(3), 23-30.

Book Chapter

Kiefer, A. W., Armitano-Lago, C., Sathyan, A., MacPherson, R., Cohen, K., & **Silva, P. L.** (in press). The intelligent phenotypic plasticity platform (IP³) for precision medicine-based injury prevention in sport. In A. Rassoly & M. Ossandon (Eds.), *Methods in Molecular Biology*. Champaign, IL: Springer.

Silva, P., Kiefer, A., Riley, M. A., & Chemero, A. (2019). 3 Trading Perception and Action for Complex Cognition: Application of Theoretical Principles from Ecological Psychology to the Design of Interventions for Skill Learning. *Handbook of Embodied Cognition and Sport Psychology*, 47.

Fonseca, S.T., **Silva, P.L.**, Ocarino, J.M., Aquino, C.F. (2007). Integration of Stresses and their Relationship to the Kinetic Chain. In: David J. Magee; James E. Zachazewski; William S.

Quillen. (Org.). Scientific Foundations & Principles of Practice in Musculoskeletal Rehabilitation. 1 ed. Saint Louis: Saunders / Elsevier.

Commentaries and Replies

Kiefer, A., **Silva, P.L.**, Harrison, H., Araujo, D. Antifragility in Sport: Leveraging Adversity to Enhance Performance. (2018). Sport, Exercise, and Performance Psychology, in press.

Silva, P.L., Fonseca, S.T., Turvey, M.T. (2010). Is tensegrity the functional architecture of the equilibrium point hypothesis? *Motor Control*, 14, e35-e40.

Fonseca, S.T., Ocarino, J.M., **Silva, P.L.** (2005). [Dynamic joint stabilization does not involve simple stimulus-response processes: a response to Almeida et al.] *Revista Brasileira de Fisioterapia*.

Refereed Proceedings Papers

Nordbeck, P.C., Lamb, M., Silva, P.L. (2019). Modelling and Simulating Action Dynamics in Underconstrained Tasks in Virtual Reality. In: L. van Dijk & R. Withagen (Eds.). *Studies in Perception & Action XV*.

Sathyan, A., Harrison, H. S., Kiefer, A. W., **Silva, P. L.**, MacPherson, R., & Cohen, K. (2019, June). Genetic Fuzzy System for Anticipating Athlete Decision Making in Virtual Reality. In *International Fuzzy Systems Association World Congress* (pp. 578-588). Springer, Cham.

Silva, P. L. Moving from Biology to Behavior II: Leveraging Phenotypic Plasticity to Identify Signatures of Behavioral Fitness (2017). *Complex Systems in Sport, International Congress, Linking Theory and Practice* (p. 73).

Kiefer, A.W., DiCesare, C., Bonnette, S., Kitchen, K., Gadd, B., Thomas, S., Barber-Foss, K.D., Myer, G.D., Riley, M.A., **Silva, P.L.** (2017). Sport-specific virtual reality to identify profiles of anterior cruciate ligament injury risk during unanticipated cutting. International Conference on Virtual Rehabilitation (ICVR), Montreal, Canada, *IEEEExplore*, pp. 1-8.

PRESENTATIONS

Conference Talks (*student presenter)

Schwab, S.M., Grover, F.M., Abney, D.H., Silva, P.L., & Riley, M.A. Unpredictable task demands facilitate grip control in children and adolescents with cerebral palsy (November 2020). American Physical Therapy Association Academy of Pediatric Physical Therapy Virtual Conference. **(Outstanding Research Abstract Award)**

Schwab, S.M., Carver, N.S., Forman, M., Abney, D.H., Riley, M.A., Paxton, A., & Silva, P.L. Collaborative motor task performance in children with cerebral palsy and their caregivers: A case series (November 2020). American Physical Therapy Association Academy of Pediatric Physical Therapy Virtual Conference.

Schwab, S.M., Pinto, V.A., Riley, M.A., & Silva, P.L. Unpredictable task demands facilitate motor performance in individuals with neuromotor disability (September 2020). Ohio Physical Therapy Association Virtual LEAP Conference.

- Schwab, S.M.**, Carver, N.S., Forman, M., Abney, D.H., Riley, M.A., Paxton, A., & Silva, P.L. Where you lead, I will follow: The influence of child-caregiver interactions on motor performance in children with cerebral palsy (September 2020). Ohio Physical Therapy Association Virtual LEAP Conference.
- Schwab, S.M.**, Grover, F.M., Silva, P.L., & Riley, M.A. (February 2020). Task variability and grip control in unilateral cerebral palsy: A case study. Combined Sections Meeting of the American Physical Therapy Association, Denver, CO.
- Silva, P.L.** A task oriented approach to collision-avoidance in sports. International Conference of Perception and Action, Groningen, 2019
- Walker, G., Richards, N., Klug, E., Reed, C., Silva, P. L., Cohen, K. & Kiefer, A. W. (2018). Machine learning for concussion recovery prognosis: A novel tool to empower proactive physician treatments. American Academy of Pediatrics Council on Sports Medicine and Fitness, Orlando, FL.
- Kiefer, A. W., Richards, N., Harrison, H., Walker, G., MacPherson, R., Facciolo, J., Cohen, K. & Silva, P. L. (2018). The perceptual-motor behavior of athletes predicts their navigation efficiency in unpredictable environments. North American Meeting of the International Society for Ecological Psychology, BloomingtonNormal, IL.
- Grooms, D., Kiefer, A. W., Riley, M. A., Diekfuss, J., Ellis, J., Kitchen, K., Thomas, S., DiCesare, C., Gadd, B., Bonnette, S., Barber Foss, K., Silva, P., Galloway, R., WEIhong, Y., Leach, J., Berz, K., Cortes, N., Gokeler, A., & Myer, G. D. (2018). Neuroplasticity of neuromuscular training with augmented biofeedback and injury risk reduction. European College of Sport Science, Dublin, Ireland.
- Riehm, C.*, Chemero, A., Silva, P., & Shockley, K. (2018). Virtual Auditory Aperture Passability. Presented at the European Workshop on Ecological Psychology, Montauban, France.
- Riehm, C.*, Chemero, A., Silva, P., & Shockley, K. (2018). Virtual Auditory Aperture Passability. Presented at the North American Meeting of the International Society for Ecological Psychology, Bloomington-Normal, IL.
- Silva P.L.**, Kiefer, A., Figueiredo, P., Avelar, B., Fonseca, S.T., Mancini, M.C. Reduced adaptability of upper limb performance in teenagers with cerebral palsy: Evidence for a dynamical account. (2017). *27th Annual Meeting of the Society for Chaos Theory in Psychology and Life Sciences*. Conference Abstracts, p. 9.
- Fleuchaus, E. *, Kloos, H., **Silva, P.L.**, Kiefer, A. (2017). The antifragile mind: Reconceptualizing mistaken beliefs in early science learning. *27th Annual Meeting of the Society for Chaos Theory in Psychology and Life Sciences*. Conference Abstracts, p. 6.
- Kiefer, A., DiCesare, C., Foss, K.B., Nalepka, P., Riley, M., Ware, K., **Silva, P.**, Myer, G.. (2016). The Antifragile Athlete: A Preliminary Analysis of the Association between Neuromotor Dynamics and G- Force Impacts Sustained during Sport. *26th Annual Meeting of the Society for Chaos Theory in Psychology and Life Sciences*. Conference Abstracts, p. 8
- Kiefer, A., DiCesare, C., Foss, K.B., Nalepka, P., Riley, M., Ware, K., **Silva, P.**, Myer, G.. (2016). The Antifragile Athlete: A Preliminary Analysis of the Association between Neuromotor Dynamics and G- Force Impacts Sustained during Sport. *26th Annual Meeting of the Society*

- Santos, T.R.T.*, Carvalhais, V.O.C.*, Oliveira, L.K.R.**, **Silva, P.L.**, Ocarino, J.M., Fonseca, S.T. (2013). [Effect of tensegrity suit on human posture and movement. *In: Journal of Physical Therapy and Functional Health, 2, 26*. VI Brazilian Conference of the Nacional Society of Sports Physical], Fortaleza, Brazil.
- Silva, P.L.**, Ocarino, J.M., Souza, T.R., Mancini, M.C., Fonseca, S.T. (2012). Perception of object properties by dynamic touch is impaired in children with developmental disorders. *In: Proceedings of the Twelfth European Workshop on Ecological Psychology*, Madrid.
- Silva, P.L.**, Mancini, M.C., Fonseca, S.T., Moreno, M., Turvey, M.T. (2007). Remote effects of a locally produced force on rhythmic movement dynamics. *In: Proceedings of the XIV International Conference on Perception and Action*. Yokohama, Japan
- Fonseca, S.T., Ocarino, J.M., **Silva, P.L.**, Lage, C.A., Guimaraes, R.B., Oliveira, M.C.T. (2003). Analysis of proprioception and its relation to the functional performance of individuals presenting deficiency of the Anterior Cruciate Ligament. *In: Proceedings of the X Brazilian Congress of Biomechanics*. Belo Horizonte.
- Fonseca, S.T., Ocarino, J.M., **Silva, P.L.**, Guimaraes, R.B., Oliveira, M.C.T., Lage, C.A. (2003). Analyses of co-contraction level in individuals presenting deficiency of the Anterior Cruciate Ligament. *In: "Proceedings of the X Brazilian Congress of Biomechanics"*. Belo Horizonte.

Invited Presentations

- Silva, P.L.** (2021). Leveraging lessons from biology to assess and enhance behavioral adaptability: implications to rehabilitation and sports medicine. Psychology Department Colloquium Talk, Colby College, March 26, 2021
- Silva, P.L.** (2021). Integration of virtual reality and artificial intelligence technology for performance assessment and personalized training in sports” at the 1st International Online Symposium on Rehabilitation Sciences, promoted by the Postgraduate Program in Rehabilitation Sciences at the Universidade Federal de Minas Gerais (UFMG) held from March 15 to 19, 2021
- Silva, P.L.**, Alt, J., Harrison, H., Kiefer, A. (2018). Perceptual-motor challenges in a collision-avoidance task: Presentation and initial evaluation of a task-dynamic approach. Talk presented at The Guy Van Orden Uconn Workshop on Cognition and Dynamics, XI.
- Silva, P. L.** Moving from Biology to Behavior II: Leveraging Phenotypic Plasticity to Identify Signatures of Behavioral Fitness. (2017). *Complex Systems in Sport, International Congress, Linking Theory and Practice* (p. 73).
- Silva P.L.**, Kiefer, A., Figueiredo, P., Avelar, B., Fonseca, S.T., Mancini, M.C. (2017). Reduced adaptability of upper limb performance in teenagers with cerebral palsy: Towards a dynamical account. Talk presented at The Guy Van Orden Uconn Workshop on Cognition and Dynamics, X.
- Silva, P.L.** (2016). Dynamical organization of goal directed aiming is not immune to biomechanical, end-effector constraints. Talk presented at The Guy Van Orden Uconn Workshop on Cognition and Dynamics, IX.

- Silva, P.L.** (2012, 2014). Ecological Psychology. *Lecture for the graduate course Motor Control taught by Stella Maris Michaelsen*, Doctoral Program in Human Movement Science, UDESC, Florianopolis, Brazil.
- Silva, P.L.** (2012). Contribution of ecological psychology for understanding of human function and dysfunction. *Lecture presented at UDESC*, Doctoral Program in Human Movement Science, Florianopolis, Brazil.
- Silva, P.L.** (2009). New Perspectives in Motor Learning: Implications for Clinical Practice. *Lecture presented at the V Conference of Physical Therapy*, PUC Minas, Betim, Brazil.
- Silva, P.L.** (2009). Haptic perception: theory, research and implications to rehabilitation. *Lecture for the graduate course Neurobiomechanics taught by Prof. Anjana Bhat*, Department of Physical Therapy, University of Connecticut, Storrs.
- Silva, P.L.** (2008). Haptic Perception. *Lecture for the graduate course Advanced Human Movement taught by Prof. Kenneth Holt*, Rehabilitation Science, Boston University, Boston.
- Silva, P.L.** (2007). Open-loop and Closed-loop Optimization Models. *Lecture for the graduate course Control and Coordination of Movement taught by Prof. Michael Turvey*, Psychology Department, University of Connecticut, Storrs.
- Silva, P.L.** (2007). Sensory and Motor Challenges to Dynamic Touch: implications for rehabilitation. *Workshop in honor of CESPA's 20th Anniversary*, University of Connecticut.
- Silva, P.L.** (2006). Use of W-analysis to investigate non-local effects of tonic force on rhythmic movement dynamics. *Dynamics Workshop*, Center for the Ecological Study of Perception and Action, University of Connecticut.
- Silva, P.L.** (2005). Evaluation of the contribution of co-contraction and eccentric activity in stiffness regulation. *Rehabilitation Research Workshop*, Center for the Ecological Study of Perception and Action, University of Connecticut.

Poster Presentations (*Student author)

- Alt JM*, Silva PL. The role of task demand on decision making in dynamic environments. Poster presented at: Virtual National Athletic Trainers' Association Clinical Symposia & AT Expo, July-September 2020.
- Schwab SM.*, Alt JM.*, Riley MA., Silva PL. (February 2020). Emphasizing interactions: advancing the movement system concept in physical therapy research and practice. Combined Sections Meeting of the American Physical Therapy Association, Denver, CO.
- Grover FM.*, Schwab S.*, Silva PL., Lorenz T., Riley MA. (July 2019). Online organization of grip force control during continuous scaling of load force oscillations. Progress in Motor Control XII, Amsterdam, The Netherlands.
- Nordbeck, P. C., Lamb, M., & Silva, P. Modelling and Simulating Action Dynamics in Underconstrained Tasks in Virtual Reality. International Conference on Perception and Action, Groningen, The Netherlands.

- Grover F.*, Schwab S.*, Silva P., Lorenz T., Riley M. (July 2019). Online organization of grip force control during continuous scaling of load force oscillations. International Conference on Perception and Action, Groningen, The Netherlands.
- Schwab S.*, Angeli J., Riley M., Silva P. (March 2019). Models of function and disability in neurodevelopmental rehabilitation. Guy Van Orden Student Research Conference, Cincinnati, OH.
- Grover, F.*, Nalepka, P. *, Lorenz, T., Silva, P.L., & Riley, M. A. (2018). Intermittency between grip force and load force, presented at the North American Meeting of the International Society for Ecological Psychology, Normal, IL, June 28, 2018.
- Alt, J. M.*, Kiefer, A. W., Harrison, H. S., MacPherson, R. & Silva, P. L. (2018). Designing challenges for a virtual reality collision-avoidance task: presentation and initial evaluation of a novel task dynamic approach. North American Meeting of the International Society for Ecological Psychology, Bloomington-Normal, IL.
- Grooms, D. R., Kiefer, A. W., Riley, M. A., Diekfuss, J., Ellis, J. D., Kitchen, K., Thomas, S., DiCesare, C. A., Gadd, B., Bonnette, S., Barber Foss, K. D., Silva, P. L., Galloway, R., Yuan, W., Leach, J., Berz, K. & Myer, G. D. (2018). Neuroplasticity of neuromuscular training and injury risk reduction transfer to simulated sport. 8th World Congress of Biomechanics, Dublin, IE.
- Grooms, D. R., Ellis, J. D., Diekfuss, J., Kitchen, K., Thomas, S., Kiefer, A. W., DiCesare, C., Gadd, B., Bonnette, S., Barber Foss, K. D., Weihong, Y., Leach, J., Berz, K., Riley, M. A., Cortes, N., Gokeler, A., & Myer, G. D. (2018). Sensory, visual spatial, and motor planning activity supports motor cortex efficiency after neuromuscular training. International Society of Electrophysiology and Kinesiology, Dublin, IE.
- Silva, P.L.**, Avelar, B.S., Fonseca, S.T., Miranda, D.M., Kelty-Stephen, D.G., Mancini, M.C. (2017). Fractal fluctuations in exploratory patterns predict differences in dynamic touch capabilities between children with ADHD and age-matched controls. Poster presented at Progress in Motor Control XI, July, 2017.
- Grover, F.M.*, Lorenz, T., **Silva, P.L.**, Bonnette, S., & Riley, M.A. (2017). Anticipatory synchronization as an alternative to internal models for explaining grip force-load force coupling. Poster presented at Progress in Motor Control XI, Miami, FL
- Mancini, M.C., Fonseca, S.T., Avelar, B.S.*, Figueiredo, P.R.P.*, **Silva, P.L.** (2013). Does experience and functional context influence haptic performance. *In: Book of Abstracts of the XVII International Conference on Perception and Action*, Estoril
- Mancini, M.C., Chagas, P.S.C.*, **Silva, P.L.P.**, Ocarino, J.M., Fonseca, S.T. (2013). Previous experience in locomotion with baby walker does not improve the performance of toddlers to climb slopes after independent gait onset. *In: Book of Abstracts of the XVII International Conference on Perception and Action*, Estoril.
- Figueiredo, P.R.P.*, Avelar, B.S.*, Leite, D.X.*, **Silva, P.L.**, Mancini, M.C. (2012). [Performance of a precision task is affected by hand-held object's mass distribution]. *In: Brazillian Journal of Motor Behavior*, 7, 40-40; VI Congresso Brasileiro de Comportamento Motor, Sao Paulo.

- Avelar, B.S.,* Figueiredo, P.R.P.*, Leite, D.X.*, **Silva, P.L.**, Fonseca, S.T. (2012). [Functional context affect haptic perceptual performance]. *In: Brazillian Journal of Motor Behavior, 7, 53-54*; VI Congresso Brasileiro de Comportamento Motor, Sao Paulo.
- Leite, D.X.,* Figueiredo, P.R.P.,* Avelar, B.S.,* **Silva, P.L.**, Mancini, M.C. (2012). [Validity of a clinical method to define gait events of children with typical development and with cerebral palsy]. *In: Brazillian Journal of Motor Behavior, 7, 85-85*; VI Congresso Brasileiro de Comportamento Motor, Sao Paulo.
- Silva, P.L.**, Melo, A.P., Fonseca, S.T., Bootsma, R.J., Mancini MC. (2011). Dynamics of aiming: do inertial properties of the pointer matter? *In: Proceedings of the XVI International Conference on Perception and Action, Ouro Preto, Brazil.*
- Arantes, P.,* Dias, J.M.M., **Silva, P.L.**, Dias, R.C. (2011). Effects of balance training on the temporal structure of postural dynamics. *In: Proceedings of the XVI International Conference on Perception and Action, Ouro Preto, Brazil.*
- Ocarino, J.M., Fonseca, S.T., **Silva, P.L.**, Pavan, G.G.*, Souza, T.R., Mancini, M.C., Paes, B.** (2011). Haptic perceptual capabilities are affected in children with developmental disability. *In: Proceedings of the XVI International Conference on Perception and Action, Ouro Preto, Brazil.*
- Silva, P.L.**, Turvey, M.T. (2011). The role of haptic information in shaping coordination dynamics: Inertial frame of reference hypothesis. *In: Progress in Motor Control VIII, 2011, Cincinnati.*
- Rodrigues, E.B.**, Melo, A.P.*, Mancini M.C., **Silva, P.L.**, Fonseca, S.T., Figueiredo, P.R.P.*, Bootsma, R.J. (2011). [Effect of object's mass distribution in children's performance of precision tasks]. *In: Proceedings of the III International Conference of Children and Adolescents' health. Sao Paulo, Brazil.*
- Rodrigues, E.B.*, Chagas, P.S.C., **Silva, P.L.**, Mancini MC. (2011). [Effect of anthropometric changes on the development of gait]. *In: Proceedings of the III International Conference of Children and Adolescents' health. Sao Paulo, Brazil.*
- Silva, P.L.**, Frank, T., Turvey, M.T. Haptic information and coordination dynamics. (2010). *In: Proceedings of the Perception and Action Summer School. Perception and Action Summer School, Bielefeld, Germany.*
- Avelar, B.S.*, Fonseca, S.T., Paes, B.D.C.**, Ocarino, J.M., **Silva, P.L.** (2010). [Role of experience and functional context on haptic perception of object length]. *In: Proceedings of the XIX Semana de Iniciação Científica da UFMG.*
- Silva, P.L.** (2009). Inertial frames of reference in interlimb rhythmic coordination. Talk presented at the New England Sequencing and Timing (NEST) conference, New Haven.
- Kay, B., **Silva, P.L.** (2007). A fully-coupled metronome-actor system *In: Motor Control, 11, 75*; VI Progress in Motor Control, Sao Paulo, Brazil.
- Silva, P.L.**, Hajnal, A., Harrison, S., Kinsella-Shaw, J., Bubella, D. (2007). Case studies in dynamic touch: Stroke and peripheral neuropathy. *In: Motor Control, 11, 201-202*, VI Progress in Motor Control, Sao Paulo, Brazil.
- Silva, P.L.**, Mancini, M.C., Moreno, M., Turvey, M.T. (2007). How does steady-state force production

by one hand affect the oscillatory dynamics of the other? *In: Motor Control. v.11. p.78 – 79; VI Progress in Motor Control, Sao Paulo, Brazil. (AWARDED BEST POSTER).*

Silva, P.L., Hajnal, A., Harisson, S., Kinsella-Shaw, J., Carello, C.C. (2007). Perceiving object length by dynamic touch after a stroke: A case study. *In: Proceedings of the XIV International Conference on Perception and Action.* Yokohama, Japan, July.

Kay, B., **Silva, P.L.** (2007). Bidirectional coupling between a metronome and a coordinating actor. *In: Proceedings of the XIV International Conference on Perception and Action.* Yokohama, Japan.

Isenhower, R.W., Marsh, K.L., **Silva, P.L.**, Richardson, M.J., Schmidt, R.A. (2007). Unintentional interpersonal coordination in autistic and typically-developing children. *In: Proceedings of the XIV International Conference on Perception and Action.* Yokohama, Japan.

Mancini, M.C., **Silva, P.L.**, Fonseca, S.T., Carello, C.C., Turvey, M.T. (2006). Environmental information and the stability of rhythmic coordination. Poster presented at the North American International Society of Ecological Psychology meeting, Cincinnati, OH, USA.

Hajnal, A., Fonseca, S.T., Harrison, S.J., **Silva, P.L.**, Kinsella-Shaw, J., Carello, C.C. (2006). Comparison of dynamic touch by hand and foot. Poster presented at the North American International Society of Ecological Psychology meeting, Cincinnati, OH, USA

Kay, B., **Silva, P.L.** (2006). The perturbed metronome paradigm: when the marcher forces the drummer to a new beat. Talk presented at the New England Sequencing and Timing (NEST) conference, New Haven, CT, USA.

Silva, P.L., Mancini, M.C., Fonseca, S.T., Carello, C.C., Turvey, M.T. (2006). Remote effects of a locally produced force on the organization of rhythmic movement. Talk presented at the North American International Society of Ecological Psychology meeting, Cincinnati, OH, USA.

Silva, P.L., Ocarino, J.M., Mancini, M.C., Fonseca, S.T. (2004). Evaluation of the Contribution of the Co-contraction and Eccentric Muscular Activity for the Regulation of Elbow Stiffness. *In: Proceedings of the II Brazilian Congress of Motor Behavior.* Belo Horizonte.

Dias, J.M., Fonseca, S.T., Ocarino, J.M., **Silva, P.L.**, Guimaraes, R.B., Oliveira, M.C.T., Lage, C.A. (2003). Analysis of dynamic co-contraction level and reaction time in individuals with anterior cruciate ligament injury. *In: Proceedings of the 14th International Congress of the World Confederation for Physical Therapy, Barcelona.*

Dias, J.M., Fonseca, S.T., Ocarino, J.M., **Silva, P.L.**, Guimaraes, R.B., Oliveira, M.C.T., Lage, C.A. (2003). Analysis of proprioception and functional performance of individuals with anterior cruciate ligament deficient knee. *In: Proceedings of the 14th International Congress of the World Confederation for Physical Therapy, Barcelona.*

TEACHING

Courses Taught

2016 - present

University of Cincinnati

Undergraduate

Capstone: Research Methods in Perception and Action

Graduate

Graduate Statistics I
Control and Coordination of Action

2010 - 2015

Universidade Federal de Minas Gerais, Department of Physical Therapy

Undergraduate:

Physical Therapy Applied to orthopaedics, reumatology and
traumatology conditions

Physical Therapy Applied to Pediatric conditions

Internship in Physical Therapy

Graduate

Human Movement (Biomechanics)

Motor Control

Research Methods

Doctoral Seminar (Graduate Research Practicum)

PROFESSIONAL ACTIVITIES

University Service

2019 – present	Co-director of Graduate Training
2018-2019	Member of Assistant professor search committee, Psychology Department, University of Cincinnati.
2016 - 2017	Member of the Faculty travel award committee, Psychology Department, University of Cincinnati.
2016 - 2016	Member of the OT educator search committee, Psychology Department, University of Cincinnati.
2016 - 2019	Co-organizer of the graduate applicant interview day, Psychology Department, University of Cincinnati.

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| 2014 – 2015 | Member of the Central Committee for the Graduate Program in Rehabilitation Science, UFMG |
| 2012 – 2015 | Member of the Central Committee for the Physical Therapy Undergraduate Program, UFMG |
| 2010 – 2015 | Coordinator of the “Committee for Research Support and Promotion of the School of Physical Education, Physical Therapy & Occupational Therapy, UFMG” |

Professional Service

Conference & Workshop Organizer/Committee/Instructor

Conference Organizer (with Michael Riley, Anthony Chemero, Kevin Shockley, Tamara Lorenz, Julie Weast, Sarah Cummins-Sebree, and Drew Abney), 21st International Conference in Perception and Action, 2020.

Conference Organizer (with Sergio T. Fonseca, Marisa Mancini, Rodolfo Benda, Herbert Ugrinowitsch, Juliana Ocarino, and Thales Fonseca), 16th International Conference in Perception and Action, 2011

Scientific Committee, 16th International Conference in Perception and Action, 2011

Scientific Committee, 19th International Conference in Perception and Action, 2017

Workshop Instructor (with Michael Richardson), Non-linear Dynamics Method, sponsored by the NSERC / CRSNG CREATE Complex Dynamics network, Psychology Department, McGill.

Editorial and Reviewing Service

Editorial Boards:

Brazilian Journal of Physical Therapy: Associate Editor (2011-)

Ecological Psychology: Associate Editor (2016-)

Frontiers in Network Physiology (specialty section Network Physiology): Associate Editor (2021-)

Frontiers in Movement Science and Sport Psychology: Review Editor (2010-2020)

Fractal and Network Physiology (2020-): Review Editor

Network Physiology of Exercise, a specialty section within Frontiers in Network Physiology

Ad-hoc reviewer:

Grant proposal NSF Perception, Action & Cognition (2011, 2019)

Journals Journal of Motor Behavior; Human Movement Science, Gait and Posture, British Journal of Sports Medicine, Journal of Sports Sciences, Sport Exercise and Performance Psychology, Psychology of Sport and Exercise, Frontiers in Movement Science and Sport Psychology, Adaptive Behavior Attention, Perception, and Psychophysics, Adaptive Behavior, Journal on Multimodal User Interfaces, Plos 1, Human Factors, Journal of Experimental

Child Psychology, Scientific Reports.

Professional Society Leadership Position

Board Member, International Society for Ecological Psychology (2013-2015; 2019-present)

Member of the Program Committee for the NSERC-CREATE training grant in nonlinear dynamics, led by Dr. Caroline Palmer at McGill University.