Department of Physical Therapy – Program in Exercise Science
Marquette University, Cramer Hall, 215D – Milwaukee, WI 53233
Email: kristof.kipp@marquette.edu; Phone: (414)288-6257; Twitter: @MUSportScience

2005-2009	Ph.D.	– Corvallis, OR *Nutrition and Exercise Sciences,* Biomechanics Emphasis
2004-2005	M.S.	– Boise, ID *Exercise and Sport Studies,* Biophysical Emphasis (Biomechanics & Exercise Physiology)
2002-2003	B.S.	– Boise, ID *Kinesiology,* Biomechanics Emphasis
1999-2001	A.S.	– Coeur d'Alene, ID *Engineering*

2019-present ***Affiliated Faculty*** – Northwestern Mutual Data Science Institute

Kiely MT, Geiser CF. 2021. Competition volume and changes in countermovement jump biomechanics and motor signatures in female collegiate volleyball players. *Journal of Strength and Conditioning Research,* 35:970-975.

-

Kiely MT, Giordanelli MD, Malloy PJ, Geiser CF. 2018. Biomechanical Determinants of the reactive strength index during drop jumps. *International Journal of Sports Physiology and Performance,* 13:44-49.

Harris C. 2017. Muscle-specific effective mechanical advantage and joint impulse in weightlifting. *Journal of Strength and Conditioning Research,* 31:1905-1910.

Meinerz CM. 2017. A biomechanical comparison of successful and unsuccessful power clean attempts. *Sports Biomecha nics,* 16:272-282.

Kiely MT, Geiser CF. 2016. The reactive strength index modified is a valid measure of lower-body explosiveness in female collegiate volleyball players. *Journal of Strength and Conditioning Research,* 30:1341-1347.

Malloy PJ, Geiser CF, Morgan A, Meinerz CM, 2016. Hip external rotator strength is associated with better dynamic control of the lower extremity during landing tasks. *Journal of Strength and Conditioning Research,* 30:282-291.

Johnson ST, , Norcross M, Hoffman MA. 2015. Spinal and supraspinal motor control contributions to rate of torque development. *Scandinavian Journal of Science and Medicine in Sports,* 25:623-629.

Harris C. 2015. Patterns of barbell acceleration of the snatch and clean during weightlifting competition. *Journal of Sports Sciences,* 33:1467-1471.

Malloy P, Meinerz CM, Geiser C, 2015. The Association of dorsiflexion flexibility on knee kinematics and kinetics during a drop vertical jump in healthy female athletes. *Knee Surgery, Sports Traumatology, and Arthroscopy,* 23:3550-3555.

Meinerz CM, Malloy P, Geiser C, 2015. Anticipatory effects on lower extremity neuromechanics during a cutting task. *Journal of Athletic Training,* 50:905-913.

Pfeiffer RP, Sabick MB, Harris C, Sutter J, Kuhlman S, Shea KG. 2014. Muscle synergies during a single-leg drop-landing in boys and girls. *Journal of Applied Biomechanics,* 30:262-268.

Wood C, 2014. Audio biofeedback as a method of gait retraining to reduce tibial acceleration on foot strike. *Journal of Biomechanics,* 47:1739-1741.

Brown TN, McLean SG, Palmieri-Smith RM. 2013. Decision-making and experience level influence frontal plane knee joint biomechanics during a cutting maneuver. *Journal of Applied Biomechanics,* 29:756-762.

Palmieri-Smith RM. 2013. Differences in kinematic control of ankle joint motions in people with chronic ankle instability. *Clinical Biomechanics,* 28:562-567.

Harris C, Sabick MB. 2013. Correlations between internal and external power outputs during weightlifting exercise. *Journal of Strength and Conditioning Research,* 27:1025-1030.

Redden J, Harris C, Sabick MB. 2012. Kinematic and kinetic synergies of the lower extremities during the pull in olympic weightlifting. *Journal of Applied Biomechanics,* 28:271-278.

Johnson ST, , Yun J, Hoffman MA. 2012. Spinal control differences between the sexes. *European Journal of Applied Physiology,* 112:3859-3864.

Johnson ST, Hoffman MA. 2012. Spectral properties of H-reflex recordings after an acute bout of whole-body vibration. *Journal of Strength and Conditioning Research,* 26:1915-1919.

Redden J, Harris C, Sabick MB. 2012. Weightlifting performance is related to kinematic and kinetic patterns of the hip and knee joints. *Journal of Strength and Conditioning Research,* 26:1838-1844.

Palmieri-Smith RM. 2012. Principal component based analysis of biomechanical inter-trial variability in individuals with chronic ankle instability. *Clinical Biomechanics,* 27:706-710.

Johnson ST, Hoffman MA. 2012. Effects of homosynaptic depression on spectral properties of H-reflex recordings. *Somatosensory and Motor Research,* 29:38-43.

McLean SG, Palmieri-Smith RM. 2011. Patterns of hip flexion motion predict frontal and transverse plane knee torques during a single-leg land-and-cut maneuver. *Clinical Biomechanics*, 26:504-508.

Harris C, Sabick M. 2011. Lower extremity biomechanics during weightlifting exercise vary across joint and load. *Journal of Strength and Conditioning Research,* 25:1229-1234.

Johnson ST, Hoffman MA. 2011. Functional data analysis of H-reflex recruitment curves. *Journal of Neuroscience Methods,* 197: 270-273.

Johnson ST, Doeringer J, Hoffman MA. 2011. Spinal reflex excitability and homosynaptic depression after a bout of whole-body vibration. *Muscle and Nerve*, 43:259-262.

Hong J, , Maddalozzo G, Hoffman MA. 2010. Acute effects of whole body vibration on rate of force development and electromechanical delay. *Journal of Sports Therapy,* 3:3-9.

Hong J, , Johnson ST, Hoffman MA. 2010. Effects of 4 weeks whole body vibration training on neuromuscular performance and presynaptic inhibition. *International Journal of Physiotherapy and Rehabilitation*, 1:30-40.

Pryhoda M, Howenstein J, , Sabick M. Kinematics and kinetics of the lumbosacral joint during the baseball pitch. *North American Congress on Biomechanics.*

, Cunanan A, Warmenhoven J. Bivariate functional principal component analysis of bar trajectories during the snatch. *American Society of Biomechanics.* Atlanta, GA. 2020.
Kim H, Muscle forces of the lower extremity during dynamic tasks in people with and without chronic ankle instability. *American Society of Biomechanics.* Atlanta, GA. 2020.

Malloy PJ, Giordanelli M, Zaferiou A, Neumann D, . Sagittal plane hip impulse during gait is greater after surgical intervention for femoroacetabular impingement syndrome. *American Society of Biomechanics.* Boulder, CO. 2017.

Geiser CF, Giordanelli MD, Legler L, Kost C, Malloy PJ, . Muscle synergies in female athletes with and without generalized joint hypermobility during a land and cut task. *American Society of Biomechanics.* Boulder, CO. 2017.

, Kiely MT, Geiser CF. Changes in principal component structure of countermovement jumps after a volleyball season. *International Society of Biomechanics in Sports.* Poitiers, France. 2015.
Giordanelli MD, Geiser CF, Malloy PJ, Morgan A,

, McLean SG, Palmieri-Smith RM. Patterns of hip flexion motion predict knee abduction torques during a single-leg land and cut maneuver. *ACL Retreat V*. Greensboro, NC. 2010.

Pfeiffer, RP, , Sabick, MB, Kuhlman, S, Sutter, J, Shea, KG. Gender differences in lower extremity landing mechanics in youth soccer players performing a single-leg landing. *ACL Retreat V*. Greensboro, NC. 2010.

, Doeringer J, Johnson ST, Hoffman MA. The effects of whole-body vibration on neural excitability and intrinsic pre-synaptic inhibition.

PhD Level

Primary Advisor

Nayun Ahn – Department of Physical Therapy – EXRS (2019-present)
Marwan Aljohani – Department of Physical Therapy – CTRH (2014-2019)
Christopher Geiser – Department of Physical Therapy – CTRH (2013-present)
Mike Haischer – Department of Physical Therapy – EXRS (2019-present)
Hoon Kim – Department of Physical Therapy – CTRH (2017-2020)
Philip Malloy* – Department of Physical Therapy – CTRH (2012-2017)

* Recipient of *Promotion of Doctoral Studies II Scholarship* from the Foundation for Physical Therapy

Committee Member

Tim Boerger – Department of Physical Therapy – CTRH (2019-2021)
Stephanie Raab – Department of Physical Therapy – CTRH (2020-present)

External Committee Member

John Krzyszkowsi – Texas Tech University – (2021-2022)

MS Level

Primary Advisor

Bill Adler – Department of Physical Therapy – SPRT (2022-present)
Mike Kiely – Department of Physical Therapy – CTRH (2014-2016)
John Krzyszkowsi – Department of Physical Therapy – CTRH (2017-2019)
Zoe Marmitt – Department of Biomedical Engineering – BIEN (2022-present)
Alec Miller – Department of Physical Therapy – CTRH (2017-2019)
Alex Morgan – Department of Physical Therapy – CTRH (2013-2015)
Jason Palmer – Department of Physical Therapy – SPRT (2022)
Matt Rucinski – Department of Physical Therapy – SPRT (2022-present)
Will Wolf – Department of Physical Therapy – CTRH (2017-2019)

Co-Advisor

Tia Jandrin – Department of Physical Therapy – CTRH (2014-2016)

Committee Member

Emily Schaefer – Department of Biomedical Engineering – BIEN (2016)

Editorial Service

2022-2024 Member of editorial board; *Sports Biomechanics*
2019-2021 Member of editorial board; *Sports Biomechanics*

Professional Society

2023 Organizing Chair; Annual ISBS Conference
2023 Co-organizer; Virtual ISBS Mid-Year Symposium
2022-2024 Board of Directors; ISBS
2022 Session chair (Strength Sports); ISBS Annual Meeting
2022 Co-organizer and session moderator (Weightlifting); Virtual ISBS Mid-Year Symposium
2021-2022 Member of Diversity, Equity, & Inclusion committee; ISBS
2021 Session chair (Upper Body & Throwing); ISBS Annual Meeting
2021 Member of nomination committee; ISBS
2021 Co-organizer and s22idMeair (