

jess@zendlerscientific.com | (248) 568-6369 | Tacoma, Washington

Biomedical Engineer and Kinesiologist providing scientific advising and communication for organizations in sport science, human performance, and related fields. Areas of expertise include whole-body and tissue biomechanics, gait, sport movement analysis, injury prevention and rehabilitation, equipment design, athlete assessment, and body-worn sensors.

PROFESSIONAL EXPERIENCE

Owner and Principal Consultant

2018 – Present

Zendler Scientific, LLC

Provide scientific consulting services in human performance, biomechanics, wearable technology, and related fields. Services include research design and management, comprehensive scientific review, product validation and testing, subject matter expertise, thought leadership strategy, scientific communication, and education in research and technology best practices.

Adjunct Research Assistant Professor

2018 – Present

University of Michigan, School of Kinesiology

Collaborate on ongoing research projects with U-M faculty across Kinesiology, Engineering, and Medicine; advise graduate students; and support efforts of the Exercise and Sport Science Initiative.

Chief Scientific Officer

2017 – 2018

Impellia, Inc.

Led scientific research and development for Impellia's sport performance technology suite. Directed internal and external research operations. Developed strategic academic and scientific partnerships. Responsible for engaging with scientific, medical, and technical communities, as well as communicating scientific research to internal and external stakeholders, customers, strategic partners, and media. Worked with customers to translate needs into products and features. Supported sales, marketing, and other business development efforts.

Assistant Research Scientist

2016 – 2017

Director, Michigan Performance Research Laboratory

University of Michigan, School of Kinesiology

Directed the Michigan Performance Research Laboratory, which investigated sports performance and lifelong health through the lens of biomechanics. Conducted interdisciplinary collaborations with Engineering, Medicine, Athletics, and Social Research to develop systems-based approaches to analyzing human performance. Provided innovative product research to sports and fitness industry. Leveraged body-worn technologies to study factors affecting physical resiliency in an ecologically-valid context. Consulted for the Athletics Department to enhance their athlete health and

wellness programming. Provided athletic assessment services to professional, collegiate, and recreational athletes and teams.

Engineer in Research Senior

2013 – 2015

University of Michigan, School of Kinesiology

Led human and sport performance research efforts under the direction of the Michigan Performance Research Laboratory Director, including developing research proposals for academic and industry sponsored research; designing and executing biomechanics-focused research (development and prevention of orthopedic sports injuries of the hip and knee; use of wearable technology to enhance athlete assessment and intervention; effect of footwear on athlete biomechanics, performance, and subjective experience); employed inertial-based and optical motion capture, EMG, force plate, insole pressure, instrumented treadmill, body-worn movement and physiological sensors, metabolic gases, heart rate, lactate analyses; analyzed and presented research to academic and industry audiences; developed software pipelines for data analysis; directed laboratory operations, including hiring and training of laboratory personnel and students, development of standard operating procedures, and managing human ethics compliance.

EDUCATION & TRAINING

Doctor of Philosophy in Kinesiology and Mechanical Engineering

2013

University of Michigan, Ann Arbor, MI, USA

Thesis: “Mapping the Biomechanical Properties of Human Knee Cartilage”

Advisors: Scott G. McLean, Ellen M. Arruda, Michael J. Bey

Master of Science in Mechanical Engineering

2012

University of Michigan, Ann Arbor, MI, USA

Master of Science in Kinesiology

2010

University of Michigan, Ann Arbor, MI, USA

Bachelor of Science in Engineering in Biomedical Engineering *summa cum laude*

2008

Washington University in St. Louis, St. Louis, MO, USA

Biomechanics Concentration; Minor in Business

PUBLICATIONS & PRESENTATIONS

Peer-Reviewed Journal Publications

Burns GT, Gonzalez R, **Zendler JM**, Zernicke RF. “Bouncing Behavior of Sub-Four Minute Milers.” *Scientific Reports*. 2021; 11:10501.

Zendler JM, Jadischke R, Frantz J, Hall S, Goulet GC. “Emergency Department Visits From 2014 to 2018 for Head Injuries in Youth Non-Tackle Football Compared With Other Sports.” *Orthopaedic Journal of Sports Medicine*. 2021; 9(1).

Jadischke R, **Zendler J**, Lovis E, Elliot A, Goulet GC. “Quantitative and Qualitative Analysis of Head and Body Impacts in American 7v7 Non-Tackle Football.” *BMJ Open Sport & Exercise Medicine*. 2020; 6:e000638.

Agresta CE, Peacock J, Carmichael A, Neilsen K, **Deneweth Zendler J**, Gonzalez R. “The Perception of Ride is Multidimensional for Running Footwear.” *Footwear Science*. 2020; 12(1):15-24.

Provenzano SG, Hafer JF, Peacock J, Kempner S, **Deneweth Zendler J**, Agresta CE. “Restriction in Pelvis and Trunk Motion in Postpartum Runners compared with Pre-Pregnancy.” *Journal of Women’s Health Physical Therapy*. 2019; 43(3):119-126.

Agresta CE, Goulet GC, Peacock J, Housner J, Zernicke RF, **Deneweth Zendler J**. “Years of Running Experience Influences Stride-to-Stride Fluctuations and Adaptive Response During Step Frequency Perturbations in Healthy Distance Runners.” *Gait and Posture*. 2019; 70: 376-382.

Burns GT, **Zendler JM**, Zernicke RF. “Step Frequency Patterns of Elite Ultramarathon Runners During a 100-Km Road Race.” *Journal of Applied Physiology*. 2019; 126(2): 462-468.

Burns GT, **Zendler JM**, Zernicke R F. “Validation of a Wireless Shoe Insole for Ground Reaction Force Measurement.” *Journal of Sports Sciences*. 2018; 37(10):1129-1138.

Agresta CE, Southern E, Peacock J, **Deneweth Zendler J**. “Immediate and Short-Term Adaptations to Maximalist and Minimalist Running Shoes.” *Footwear Science*. 2018; 10(2):95-107.

Agresta C, Peacock J, Housner J, Zernicke RF, **Deneweth Zendler J**. “Experience Does Not Influence Injury-Related Joint Kinematics and Kinetics in Distance Runners.” *Gait and Posture*. 2018; 61:13-18.

Crawford EA, Whiteside D, **Deneweth JM**, Ross JR, Bedi A, Goulet GC. “In-vivo Hip Morphology and Kinematics in Elite Baseball Pitchers.” *Arthroscopy*. 2016; 32(5):798-805.

Whiteside D, **Deneweth JM**, Bedi A, Zernicke R, Goulet GC. “Femoroacetabular Impingement (FAI) in Elite Ice Hockey Goaltenders: Etiological Implications of On-Ice Hip Mechanics.” *American Journal of Sports Medicine*. 2015, 43(7):1689-1697.

Whiteside D, McGinnis RS, **Deneweth JM**, Zernicke RF, Goulet GC. “Ball Flight Kinematics, Variability, and Pitching Success in Elite Baseball.” *Scandinavian Journal of Sports Medicine*. 2015.

Tramer JS, **Deneweth JM**, Whiteside D, Ross JR, Bedi A, and Goulet GC. “On-Ice Functional Assessment of an Elite Ice Hockey Goaltender Following Treatment for Femoroacetabular Impingement.” *Sports Health: A Multi-disciplinary Approach*. 2015.

Whiteside D, **Deneweth J**, Pohorence M, Sandoval B, Russell J, McLean S, Zernicke R, Goulet G. “Grading the Functional Movement Screen™: A Comparison of Manual (Real-Time) and Objective Methods.” *Journal of Strength and Conditioning Research*. 2014.

Deneweth JM, Pomeroy SM, Russell JR, McLean SG, Zernicke RF, Bedi A, Goulet GC. “Position-Specific Hip and Knee Kinematics in NCAA Football Athletes.” *Orthopaedic Journal of Sports Medicine*. 2014;2(6):2325967114534591.

Deneweth JM, Arruda EM, and McLean SG. "Hyperelastic Modeling of Location-Dependent Human Distal Femoral Cartilage Mechanics." *International Journal of Non-Linear Mechanics*. 2015;68(1):146-156.

Deneweth JM, McLean SG, and Arruda EM. “Evaluation of Hyperelastic Models for the Non-Linear and Non-Uniform High Strain-Rate Mechanics of Tibial Cartilage.” *Journal of Biomechanics*. 2013;46(10):1604-1610.

Deneweth JM, Newman KE, Sylvia SM, McLean SG, and Arruda EM. “Heterogeneity of Tibial Plateau Cartilage In Response To A Physiological Compressive Strain Rate.” *Journal of Orthopaedic Research*. 2013;31(3):370-375.

Deneweth J, Bey M, McLean S, Lock T, Kolowich P, and Tashman S. “Tibiofemoral Joint Kinematics of the ACL-Reconstructed Knee During A Single-Leg Hop Landing.” *American Journal of Sports Medicine*. 2010;38(9):1820-1828.

Conference Presentations

Huynh PT, Wong J, Guadagnino S, Bagley E, Lukosky N, **Zendler J**, Agresta CE. “Time-efficient Video Analysis of Modern-Day Elite Basketball: Updated Methodology with Reliability Analysis and Preliminary Results.” Congress of the European College of Sport Science. September 8-10, 2021.

Burns G, **Zendler J**, Kozloff K, Zernicke R. “Mechanical Symmetry in Elite Middle Distance Runners.” Congress of the International Society of Biomechanics. Stockholm, Sweden, July 2021.

Hall SM, Frantz JP, **Zendler JM**, Goulet GC. “Xenith Non-Tackle Football Headgear Presents Safety Information About Protective Limitations.” 4th Annual Boston University Chronic Traumatic Encephalopathy Conference. Boston, MA. November 2019.

Jadischke R, **Zendler J**, Lovis E, Elliott A, Goulet GC. “Development of a Methodology and Preliminary Analysis of Head Impacts in American 7-v-7 Non-Tackle Football.” Proceedings of the IRCOBI Conference-Florence: 2019. 615–6.

Agresta C, Provenzano S, Hafer J, Peacock J, **Zendler J**. “Female Runners Reduce Proximal Segment Motion and Alter Stride Dynamics Postpartum.” XXVII Congress of the International Society of Biomechanics (ISB2019) and 43rd Annual Meeting of the American Society of Biomechanics (ASB2019). Calgary, AB. August 2019.

Hall SM, Frantz JP, **Zendler JM**, Goulet GC. “Xenith Presents Safety Messages Using Multi-Channel Approach.” 3rd Annual Boston University Chronic Traumatic Encephalopathy Conference. Boston, MA. October 2018.

Provenzano S, Hafer J, Peacock J, Kempner S, **Deneweth Zendler J**, Agresta C. “Restrictions in Pelvis and Trunk Motion in Postpartum Runners.” Gait and Clinical Movement Analysis Society Annual Conference, Indianapolis, IN, May 2018.

Burns G, **Deneweth Zendler J**, Zernicke R. “Running Economy and Ground Reaction Force Characteristics of Elite Middle Distance Runners Across Incremental Faster Running Speeds.” World Congress of Biomechanics. Dublin, Ireland. 2018.

Agresta C, Peacock J, Housner J, Zernicke R, **Deneweth Zendler J**. “Using Detrended Fluctuation Analysis to Assess System Stability During Running.” Annual Meeting of the American Society of Biomechanics. Boulder, CO. August 2017.

Burns, G, **Deneweth Zendler J**, Zernicke R. “Step Frequency in Elite Ultra-Marathoners During a 100-Km Road Race.” Annual Meeting of the American Society of Biomechanics. Boulder, CO. August 2017.

Burns, G, **Deneweth Zendler J**, Zernicke R. “Wireless Insoles to Measure Ground Reaction Forces: Step-by-Step Validity in Hopping, Walking, and Running.” 35th International Conference on Biomechanics in Sports, Cologne, 2017.

Snyder C, **Deneweth Zendler J**, Kessler S, Peacock J. “The Effects of Tension, Balance, and Ictus on Ensemble Sound.” World Association of Symphony Bands and Ensembles International Conference, Utrecht, Netherlands, July 2017.

Kessler SE, Southern EC, Agresta CE, Goulet GC, Zernicke RF, **Deneweth JM**. “Effect of Cushioning on Running Economy.” Annual Meeting of the American Society of Biomechanics. Raleigh, North Carolina, August 2-5, 2016.

Southern EC, Kessler SE, Agresta CE, Zernicke RF, Goulet GC, **Deneweth JM**. “Effect of Running-Induced Neuromuscular Fatigue on Vertical Stiffness and Lower-Limb Stiffness.” Annual Meeting of the American Society of Biomechanics. Raleigh, North Carolina, August 2-5, 2016.

Goulet GC, Agresta CE, Southern E, Kessler SE, Zernicke RF, **Deneweth JM**. “The Influence of Shoe Characteristics on Injury in Distance Runners.” Congress of the European College of Sports Science. Vienna, Austria, July 6-9, 2016.

Agresta CE, Southern EC, Kessler SE, Goulet GC, Zernicke RF, **Deneweth JM**. “Intra-Individual Variability in Novel Footwear Associated With Injury in Distance Runners.” Congress of the European College of Sports Science. Vienna, Austria, July 6-9, 2016.

Deneweth JM, McGinnis R, Zernicke R, Goulet GC. “Individual-Specific Determinants of Successful Adaptation to Minimal and Maximal Running Shoes.” *Footwear Science*. 2015;7(S1):S97-S99. Footwear Biomechanics Symposium. Liverpool, United Kingdom. July 8-10, 2015.

Whiteside D, **Deneweth J**, Bedi A, Pomeroy S, Murray M, Bancroft R, Zernicke R, Goulet G. “Mechanical Etiology of Femoroacetabular Impingement (FAI) in Ice Hockey Goaltenders.” Proceedings of XIII International Symposium on 3D Analysis of Human Movement. Lausanne, Switzerland, July 14 – 17, 2014.

Deneweth J, Whiteside D, Pomeroy S, Cowan J, Ross J, Bedi A, Goulet G. "Hip Accelerations and Femoroacetabular Impingement (FAI) Morphology in Ice Hockey Goaltenders." 7th World Congress of Biomechanics. Boston, USA, July 6 – 11, 2014.

Whiteside D, McGinnis RS, **Deneweth JM**, Holstad R, Martini DN, Zernicke RF, Goulet GC. “Relating Ball Flight Characteristics, Variability in Release Location and Game Success in Elite Baseball Pitchers.” XIX Annual Congress of the European College of Sport Science. Amsterdam, Netherlands, July 2 – 5, 2014.

Whiteside D, **Deneweth J**, Pohorence M, Sandoval B, McLean S, Russell J, Zernicke R, Goulet G. “Evaluating the Validity of Functional Movement Screen Grading.” Annual Meeting of the American College of Sports Medicine. Orlando, USA, May 27 – 31, 2014

Whiteside D, **Deneweth J**, McLean S, Bedi A, Zernicke R, & Goulet G. (2014). Developing Field-Based Morphomechanical Predictors of Injury Risk and Performance. IOC World Conference: Prevention of Injury and Illness in Sport. Monaco, April 10–12.

Deneweth JM, Newman KE, Pomeroy SM, Sylvia SM, Arruda EM, McLean SG. “Physiological Mechanical Properties of Healthy Cartilage Across the Distal Femur.” Congress of the International Society of Biomechanics. Natal, Brazil, August 4 – 9, 2013.

Deneweth JM, Pomeroy SM, Arruda EM, McLean SG. “Evaluation of Hyperelastic Models for Tibial Articular Cartilage Under High Strain Rate Loading.” Congress of the International Society of Biomechanics. Natal, Brazil, August 4 – 9, 2013.

Pomeroy SM, **Deneweth JM**, Goulet GC, McLean SG. "Hamstring Moment Arm Ratios in Maturing Females and Their Influence on ACL Injury." Annual Meeting of the American College of Sports Medicine. Indianapolis, USA, May 28 – June 1, 2013.

Davidson SP, **Deneweth JM**, Goulet GC, and McLean SG. “Effect of Maturation Scale on Comparative Knee Joint Morphologies.” American College of Sports Medicine Annual Meeting. Indianapolis, USA, May 28 – June 1, 2013.

Deneweth JM, Pomeroy SM, Arruda EM, McLean SG. “Topographical Mapping of Femoral Elastic Moduli Under Physiological Loading.” Orthopaedic Research Society Annual Meeting. San Antonio, USA, January 26 – 29, 2013.

Davidson SP, **Deneweth JM**, Goulet GC, McLean SG. “Maturational Contributions to Comparative Lower Limb Muscle Volumes: Implications for Knee Joint Injury.” Orthopaedic Research Society Annual Meeting. San Antonio, USA, January 26 – 29, 2013.

Pomeroy SM, **Deneweth JM**, McLean SG. “Moment Arm Variations Throughout Puberty and Their Effect on the ACL Injury Mechanism in Females.” Orthopaedic Research Society Annual Meeting. San Antonio, USA, January 26 – 29, 2013.

Williams C, **Deneweth JM**, McLean SG. “Maturation-Induced Modifications in ‘Non-Modifiable’ ACL Injury predictors.” Orthopaedic Research Society Annual Meeting. San Antonio, USA, January 26 – 29, 2013.

Deneweth JM, Sylvia SM, Newman KE, McLean SG, Arruda EM. “Mapping the Mechanical Topography of Healthy Tibial Cartilage.” American Society of Biomechanics Annual Meeting. Gainesville, USA, August 15 – 18, 2012. *First Place, Doctoral Student Poster Competition.*

Deneweth JM, Newman KE, Sylvia SM, McLean SG, Arruda EM. “Human Tibial Cartilage Reveals Non-Linear and Non-Uniform Regional Topography Under Physiological Loading Rates.” ASME Summer Bioengineering Conference. Fajardo, Puerto Rico, June 20 – 23, 2012. *Finalist, Doctoral Student Paper Competition.*

Deneweth J, Arruda E, Newman K, McLean S. “Characterization of Regional Variations in Cartilage Stiffness Across the Human Tibia.” Congress of the International Society of Biomechanics. Brussels, Belgium, July 4 – 7, 2011.

Deneweth J, McLean S, Arruda E. “Homogeneous Finite Element Formulations of Articular Cartilage Do Not Reflect Natural Indentation Mechanics.” Orthopaedic Research Society Annual Meeting. Long Beach, USA, January 13 – 16, 2011.

Deneweth J.M., Bey M.J., McLean S.G., Tashman S. “Single-leg Hop Landing Mechanics in the ACL-Reconstructed Knee.” 17th Congress of the European Society of Biomechanics. Edinburgh, UK, July 5 – 8, 2010.

Deneweth J, Bey MJ, McLean SC, Kolowich PK, Lock TR, Tashman S. “Tibiofemoral Joint Kinematics of the ACL-Reconstructed Knee During A Single-Leg Hop Landing.” Orthopaedic Research Society Annual Meeting. New Orleans, USA, March 6 – 9, 2010.

Bey MJ, Kline SK, Haladik JA, **Deneweth JM**, Ciarelli K, Muh S, Moutzouros V. “In-Vivo Glenohumeral Joint Mechanics In Young, Healthy Subjects: Dominant Vs. Non-Dominant Shoulders.” Orthopaedic Research Society Annual Meeting. New Orleans, USA, March 6 – 9, 2010.

Bey MJ, Kline SK, Ciarelli K, **Deneweth JM**, Kolowich PA, Lock TR, Moutzouros V. “In-Vivo Joint Mechanics, Shoulder Strength, And Their Interaction After Rotator Cuff Repair: 2-Year Follow-Up.” Orthopaedic Research Society Annual Meeting. New Orleans, USA, March 6 – 9, 2010.

Muh SJ, Kline SK, **Deneweth JM**, Bey, MJ. “Dynamic, In-vivo Glenohumeral Joint Mechanics of the Normal, Healthy Shoulder: Dominant versus Non-Dominant Shoulders.” Mid-America Orthopaedic Society Annual Meeting. Austin, USA, April 21-25, 2010.

Bey M, Kline S, **Deneweth J**, Haladik J, Kolowich P, and Lock T. “Changes In Glenohumeral Joint Mechanics, Shoulder Strength, And Clinical Outcomes Over Two Years After Rotator Cuff Repair.” ASME Summer Bioengineering Conference. Lake Tahoe, USA, June 17 – 21, 2009.

Bey M, Kline S, **Deneweth J**, Beierwaltes W, Kolowich P, and Lock T. “Changes In Glenohumeral Joint Mechanics, Shoulder Strength, And Their Interaction After Rotator Cuff Repair.” Orthopaedic Research Society Annual Meeting. Las Vegas, USA, February 22 – 25, 2009.

INVITED LECTURES

“Is there a role for wearable technology in illness detection? What the last year of COVID-19 research has taught us.”

University of Washington Sports Medicine Grand Rounds

August 25, 2021

“Health, Well-Being, and Excellence: Insights From the Frontiers of Human Performance”

University of Puget Sound Weyerhaeuser Colloquium Series

Co-presented with Cristine Agresta, MPT, PhD and Shawn Sorenson, PhD

April 17, 2019

RESEARCH FUNDING

In-shop shoe selection. Diadora s.p.A., \$22,000 (Co-I with PI C. Agresta) 1/2021 – 1/2022

Basketball accelerated wear testing. adidas, AG, \$20,000 (Co-I with PI C. Agresta) 11/2020 – 3/2021

Development of a multi-level, systems-based model for injury resiliency at the individual and team level in collegiate running sport. Grand Challenge Pilot Grant, U-M Exercise and Sports Science Institute, \$200,000 (Co-I J. Deneweth Zendler with PI R. Gonzalez) 5/2017 – 5/2019

Home-based team translational telecare to optimize mobility and physical activity in recently hospitalized older veterans. Healthy Aging Award, Michigan Health Endowment Fund, \$432,753 (Co-I J. Deneweth Zendler with PI C. Cigolle and Co-PI N. Alexander) 1/2017 – 12/2018

Validation and application of novel wireless in-sole foot force and movement device. Small Company Innovation Program Grant, Michigan Corporate Relations Network with StrikeFoot, LLC, \$21,730 (PI J. Deneweth Zendler) 1/2017 – 12/2017

Footwear perception and preference. adidas AG, \$238,000 (PI J Deneweth Zendler) 1/2016 – 12/2017

Biomechanics and footwear needs of pregnant and postpartum runners. adidas AG, \$102,000 (PI J. Deneweth Zendler) 1/2016 – 12/2017

HONORS & AWARDS

Graduate Student Scholar Award, American Kinesiology Association (2013)

First Place, Doctoral Student Poster Competition, American Society of Biomechanics Annual Meeting (2012)

Finalist, Doctoral Student Paper Competition, American Society of Mechanical Engineers Summer Bioengineering Conference (2012)

Student Travel Award, Congress of the International Society of Biomechanics (2011)
Graduate Fellow, National Science Foundation Graduate Research Fellowship (2010)
Graduate Fellow, National Defense Science & Engineering Graduate Fellowship (2010)
Student Travel Award, Congress of the European Society of Biomechanics (2010)
Rackham Regents' Fellowship, University of Michigan (2008) *Awarded to the top incoming Ph.D. student for each graduate program*
Honorable Mention, National Science Foundation Graduate Research Fellowship (2008)
Valedictorian, School of Engineering, Washington University in St. Louis (2008)

TEACHING

<p>Guest/Substitute Lecturer Movement Science 110 (Introduction to Movement Science) School of Kinesiology, University of Michigan</p>	<p>2009 – 2017</p>
<p>Guest Lecturer Health & Fitness 331 (Biomechanics of Sport and Fitness) School of Kinesiology, University of Michigan</p>	<p>2015 – 2017</p>
<p>Graduate Student Instructor Movement Science 330 Laboratory (Biomechanics of Human Movement) School of Kinesiology, University of Michigan</p>	<p>2009</p>
<p>Teaching Assistant BME 240 (Introduction to Biomechanics) Department of Biomedical Engineering, Washington University in St. Louis</p>	<p>2008</p>
<p>Teaching Assistant BME 301B (Quantitative Physiology II) Department of Biomedical Engineering, Washington University in St. Louis</p>	<p>2008</p>

SERVICE

Reviewer
American Journal of Sports Medicine
American Society of Biomechanics Annual Meeting
Biomechanics and Modeling in Mechanobiology
Journal of Biomechanics
Journal of Engineering in Medicine
Open Access Journal of Sports Medicine
Pac-12 Student-Athlete Health & Well-Being Initiative Grant Program

Professional Organizations
Member, American Society of Biomechanics
Member, American Society of Mechanical Engineers
Member, International Society of Biomechanics

ADVISORY BOARDS

Xenith, LLC

MENTORSHIP

Graduate Students & Postdoctoral Fellows

Cristine Agresta, PhD – Postdoctoral Fellow, Kinesiology
Ali Arastu – Medical Student, University of Michigan Medical School
Geoff Burns, MS – Doctoral Student, Kinesiology
Tyler Davis – Masters Student, Kinesiology
Tommy Gayfield, Jr. – Masters Student, Kinesiology
Sarah Kessler – Masters student, Kinesiology
Kevin Krieg – Masters Student, Kinesiology
Joseph Tramer – Medical student, Northeast Ohio Medical University

Undergraduate Students

Steven Davidson – Athletic Training
Marli Gitles – Kinesiology
Edward Godbold – Mechanical Engineering
Denny Goltra – Movement Science
Ji-Hoon Kim – Biology
David Kooistra – Movement Science
Jyl Monahan – Movement Science
Jamie Morrissey – Kinesiology
Mariah Murray – Biomedical Engineering
Kelly Newman – Movement Science
Tori Orr – Mechanical Engineering
Shannon Pomeroy – Movement Science
Seraphina Provenzano – Kinesiology
Jason Russell – Athletic Training
Emily Southern – Movement Science