

Curriculum Vitae

John J. Durocher, Ph.D., ACSM EP-C, CSCS
Associate Professor of Physiology
Director of Clinical and Applied Human Physiology Laboratory
Interim Director of Sleep Research Laboratory

Department of Biological Sciences
Michigan Technological University
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Education:

2008	Doctor of Philosophy • Exercise Physiology	Department of Biological Sciences Michigan Technological University
2006	Master of Science • Exercise Science	Department of Health, P.E. and Recreation Northern Michigan University
2004	Bachelor of Science • General Biology (<i>Cum Laude</i>)	Department of Biological Sciences Michigan Technological University
1996	Associate in Applied Science • Forest Technology	School of Technology Michigan Technological University

Professional Experience:

2019-Pres.	Associate Professor (Tenured)	Biological Sciences Michigan Technological University
2019-Pres.	Affiliated Associate Professor	Kinesiology and Integrative Physiology Michigan Technological University
2012-2019	Assistant Professor	Biological Sciences Michigan Technological University
2012-2019	Affiliated Assistant Professor	Kinesiology and Integrative Physiology Michigan Technological University
2011-2012	Research Assistant Professor	Kinesiology and Integrative Physiology Michigan Technological University
2011-2012	Adjunct Assistant Professor	Biological Sciences Michigan Technological University
2010-2011	Postdoctoral Fellow	Integrative Physiology Laboratory Michigan Technological University
2009-2010	Assistant Professor	Physical Therapy (Exercise Physiology) Saint Francis University

2008-2009	Assistant Professor	Health, Exercise Science & Sport Mgmt. University of Wisconsin – Parkside
2007-2008	Graduate Research Assistant & Instructor	Exercise Science, Health and P.E. Michigan Technological University
2007-2008	Clinical Exercise Physiologist	Cardiopulmonary Services Portage Health
2006-2007	Graduate Teaching Assistant	Exercise Science; Biological Sciences Michigan Technological University
2004-2005	Graduate Teaching Assistant & Instructor	Health, P.E. and Recreation Northern Michigan University
2003	Teaching Assistant	Biological Sciences Michigan Technological University

Research Interests:

- Clinical & Applied Human Physiology
- Exercise Physiology
- Mindfulness and Cardiovascular Health
- Autonomic Regulation of Blood Pressure
- Physiological Responses to Stress & Exercise
- Specificity of Exercise Testing and Prescription

Teaching Experience:

Michigan Technological University:

- BL1590: Intro to Health Professions
- BL1800: Biochemistry Orientation (Guest Lecturer)
- BL 2010: Anatomy and Physiology I (and BL 2011 A&P I Lab)
- BL 2020: Anatomy and Physiology II (and BL 2021 A&P II Lab)
- BL 2940: Human Nutrition (Guest Lecturer)
- BL 3000: Job Shadow Health Professions
- BL 3044: Advanced Human Physiology (developing course to start in spring 2020)
- BL 3990: Bio Science Teaching Experience
- BL 4000: Research in Biology
- BL 4044 / 5044: Human Pathophysiology (developed the course)
- BL 4470: Analysis of Biological Data (Co-Instructor)
- BL 5350: Special Topics in Physiology (ex. Work Physiology; Exercise Metabolism)
- BL/EH 4211: Exercise Physiology Laboratory (developed the initial lab & manual)
- EH 3100: Exercise Assessment and Prescription (Guest Lecturer)
- EH 3100: Exercise Assessment and Prescription Laboratory (developed initial lab & manual)
- EH 3700: Lifetime Fitness (Guest Lecturer)
- EH 4200: Sports Nutrition Seminar
- EH 4210: Exercise Physiology (Guest Lecturer)
- EH 4990: EKG Interpretation (Guest Lecturer and Laboratory Demonstrations)
- EH 5920 & KIP 6100: Grad Seminar in Kinesiology & Integrative Physiology (Guest Lecturer)
- PE 0156: Beginning Mountain Biking

Saint Francis University:

- EXPH 102: Introduction to Strength Training
- EXPH 103: Introduction to Physical Conditioning
- EXPH 250: Functional Anatomy
- EXPH 310: Exercise Physiology II: Nutrition, Bioenergetics, Performance & Body Comp.
- EXPH 330: Neuromuscular Principles of Strength and Conditioning (developed the course)
- EXPH 398/399: Internship / Practicum
- EXPH 400: Advanced Laboratory and Field Methods in Exercise Physiology
- EXPH 410: Environmental Exercise Physiology (developed the course)
- PHTH 300: Exercise Physiology

University of Wisconsin – Parkside:

- AHS 101: Introduction to Applied Health Sciences (Guest Lecturer)
- HESM 196: Weight Training
- HESM 280: Sport and Fitness Nutrition
- HESM 353: Biomechanics
- HESM 354: Physiology of Exercise
- HESM 410: Fitness Assessment and Prescription

Northern Michigan University:

- GETFIT: Adult Fitness Program
- HP 200: Physical Well-Being
- HP 216: Beginning Skating
- HP 233: Snowshoeing
- HP 245: Weight Training and Conditioning
- PE 315: Physiology of Exercise Laboratory
- PE 317: Anatomical Kinesiology Laboratory

Grants and Equipment:

Awarded (Total: \$2,906,034; External Total: \$2,695,586 – approx. 93% external):

Project Title	Award Organization	Dates	Amount
Thermal Mattress, Sleep Quality, and Blood Pressure in Humans Role: PI (transferred from J. Carter)	Industry Sponsor	06/19 to 05/20	\$311,983 (<i>tot.</i>)
Effect of Blue Light on Autonomic Function and Sleep Quality Role: Graduate Mentor for Jeremy Bigalke	Michigan Space Grant Consortium (Graduate Fellowship)	05/19 to 04/20	\$5,000 (<i>direct</i>)

Awarded Grants Continued:

Project Title	Award Organization	Dates	Amount
The Effects of Upper and Lower Body Resistance Exercise on Pulse Wave Velocity and Tilt Table Test Performance Role: Undergraduate Mentor	Michigan Tech – Summer Undergraduate Research Fellowship (SURF) To: Grant Thivierge	03/19 to 08/19	\$4,000 <i>(total)</i>
Wearable Technology for Clinical Exercise and Applied Sport Testing Role: Collaborator with Steve Elmer	Portage Health Foundation – Infrastructure Enhancement (IE)	07/19	\$51,409 <i>(tot.)</i> \$36,409 <i>(dir.)</i>
Mindfulness and Neural Cardiovascular Control in Humans Role: PI	National Institutes of Health R-15	02/18 to 01/21	\$465,854 <i>(tot.)</i> \$304,480 <i>(dir.)</i>
Alcohol and Neurovascular Control in Humans Role: Co-PI with JR Carter	National Institutes of Health R-01	09/17 to 08/22	\$1,871,688 <i>(tot.)</i> \$1,377,030 <i>(dir.)</i>
Ambulatory Blood Pressure Monitors for Michigan Tech Role: PI	Michigan Tech Century II Campaign Endowed Equipment Fund (C ² E ²)	11/18 to 12/19	\$7,437 <i>(total)</i> \$3,600 <i>(direct)</i>
Ambulatory Blood Pressure Patterns and Arterial Stiffness Role: Undergraduate Mentor (for Thomas Basala)	Portage Health Foundation through the Pavlis Honors College Undergraduate Research Internship	10/04 to 04/19	\$800 <i>(total)</i> \$800 <i>(direct)</i>
Decentering, Acute Meditation, and Arterial Stiffness Role: Undergraduate Mentor (for Sarah LewAllen)	Portage Health Foundation through the Pavlis Honors College Undergraduate Research Internship	09/18 to 04/19	\$1,600 <i>(total)</i> \$800 <i>(direct)</i>
Arterial Stiffness Responses to Eccentric-Induced Muscle Damage: Sex Differences Role: Undergraduate Mentor (for Colleen Toorongian)	Portage Health Foundation through the Pavlis Honors College Undergraduate Research Internship	09/18 to 04/19	\$1,600 <i>(total)</i> \$800 <i>(direct)</i>
Sleep Disorders Laboratory Role: Co-PI with Jason Carter and William Cooke	Portage Health Foundation (PHF) Infrastructure Enhancement (IE) Grant	04/18	\$50,000 <i>(direct)</i>

Awarded Grants Continued:

Project Title	Award Organization	Dates	Amount
Fighting Aging with Exercise: Improvements in Cognitive and Physical Function through Resistance Training in Older Adults Role: Co-PI with Trewartha & Elmer	Portage Health Foundation and MTU Research Excellence Fund (Seed Grant)	05/17 to 12/18	\$40,000 <i>(direct)</i>
Psychophysiological Benefits of Acute Mindfulness Meditation Practice Role: Undergraduate Mentor (for Hannah Marti)	Portage Health Foundation through the Pavlis Honors College Undergraduate Research Internship	10/16 to 3/17	\$1,600 <i>(total)</i> \$800 <i>(direct)</i>
Fitness vs. Fatness and the Cardiovascular Responses to Acute Stress Role: Undergraduate Mentor (for Hannah Marti)	Portage Health Foundation through the Pavlis Honors College Undergraduate Research Internship	10/15 to 3/16	\$1,600 <i>(total)</i> \$800 <i>(direct)</i>
Blended and Active Learning for Health Sciences at Michigan Tech Role: Co-PI with BE Morin	The William G. Jackson Center for Teaching and Learning	02/15 to 12/15	\$9,700 <i>(total)</i> \$5,000 <i>(direct)</i>
The Effect of Diet or Exercise on Visceral Obesity, Neural Cardiovascular Reactivity & Arterial Stiffness in Obese Humans Role: PI	Michigan Tech Research Excellence Fund – Seed Grant	07/13 to 05/16	\$31,600 <i>(total)</i> \$26,000 <i>(direct)</i>
Promoting Wellness at Michigan Tech through Physical Activity Monitored with Wireless Accelerometers Role: PI	Michigan Tech Century II Campaign Endowed Equipment Fund (C ² E ²)	11/12 to 06/15	\$8,825 <i>(total)</i> \$4,000 <i>(direct)</i>
The Influence of Aerobic and Anaerobic Fitness on Cross-Country Mountain Biking Performance Role: Undergraduate Mentor	Michigan Tech – Summer Undergraduate Research Fellowship (SURF) To: Marie Mets	05/13 to 09/13	\$3,300 <i>(total)</i>
Research Career Enhancement Award - Evaluation of Vascular Function in Humans Role: PI	The American Physiological Society	11/12 to 5/13	\$2,000 <i>(direct)</i>
The effect of cognitive stress on orthostatic tolerance during lower body negative pressure Role: PI	Michigan Space Grant Consortium (Seed Grant)	05/11 to 04/12	\$10,000 <i>(total)</i> \$5,000 <i>(direct)</i>

Awarded Grants Continued:

Project Title	Award Organization	Dates	Amount
Human gross anatomy experience Role: PI Mini Teaching Grant	Michigan Tech Center for Teaching, Learning, and Faculty Development	11/10 to 06/11	\$500 (<i>direct</i>)
Training to improve the hockey snap and wrist shot with resistance training and the SuperShooter2© Role: Co-PI with J Erickson	Miken MV 3 Pro Hockey Sticks (<i>Gift in Kind Equipment Grant</i>)	06/10	\$3,910 (<i>estimated value</i>)
Sport-specific research at Saint Francis University Role: PI	Portage Health (<i>Gift in Kind Equipment Grant</i>)	10/09	\$14,928 (<i>estimated value</i>)
Mental stress during acute loading of the baroreceptors Role: PI	Michigan Space Grant Consortium (<i>Fellowship</i>)	05/08 to 04/09	\$5,000 (<i>direct</i>)
Optimizing lactate clearance in collegiate athletes Role: Co-PI with JR Carter	Portage Sports Medicine Institute	08/07 to 07/08	\$2,500 (<i>total</i>) \$2,273 (<i>direct</i>)

Pending Grants:

Project Title	Award Organization	Dates	Amount
Smoking Cessation and Vaporized Nicotine: Influences on Cardiovascular and Cerebrovascular Control Role: Key Senior Personnel (PI: William Cooke)	National Institutes of Health – R15 June 2019 Impact Score: 27	10/19 to 09/22	\$439,316 (<i>total</i>) \$299,007 (<i>direct</i>)

Peer-Reviewed Publications: (21 total)

Greenlund IM, Suriano PE, Elmer SJ, Carter JR, and **Durocher JJ**. Chronic Standing Desk Use and Arterial Stiffness. *Journal of Physical Activity and Health* Sep. 10, 2019 (Epub ahead of print).

Pereira T, **Durocher J**, and Burr J. The Physiological Assessment and Analysis of the Physical Demand of Riding a Snowmobile. *Journal of Physical Activity and Health* 16(10): 857-864, 2019.

Parikh GL, Webster CR, Vucetich JA, **Durocher JJ**, and Bump JK. Does persistent snowpack inhibit degradation of fecal stress indicators? *Conservation Physiology* 6(1), coy071, 2019.

Burr JF, Beck JL, and **Durocher JJ**. The Relationship of High-Intensity Cross-Training and Arterial Stiffness. *Journal of Sport and Health Science* 8: 370-375, 2019.

Elmer SJ, Anderson DJ, Wakeham TR, Kilgas MA, **Durocher JJ**, Lindstedt SL, and LaStayo, PC. Chronic eccentric arm cycling improves maximum upper-body strength and power. *European Journal of Applied Physiology* 117(7): 1473-1483, 2017.

Durocher JJ, Carter JR, Cooke WH, Young AH, and Harwood MH. Cerebral blood flow velocity during combined lower body negative pressure and cognitive stress. *Aerospace Medicine and Human Performance* 86(8): 688-692, 2015.

Petushek EJ, Cokely ET, Ward P, **Durocher JJ**, Wallace S, and Myer GD. Injury Risk Prediction Expertise: Assessing ACL-IQ. *The American Journal of Sports Medicine* 43(7): 1640-7, 2015.

Yang H, **Durocher JJ**, Larson RA, and Carter JR. Role of the ovarian cycle on neural cardiovascular control in sleep deprived women. *Journal of Applied Physiology*, 118: 419-426, 2015.

Gorsuch J, Long, J, Miller K, Primeau K, Rutledge S, Sossong A, and **Durocher JJ**. The Effect of Squat Depth on Multiarticular Muscle Activation in Collegiate Cross-Country Runners. *Journal of Strength and Conditioning Research*, 27(9): 2619-25, 2013.

Yang H, **Durocher JJ**, Larson RA, DellaValla JP, and Carter JR. Total Sleep Deprivation Alters Cardiovascular Reactivity to Acute Stressors in Humans. *Journal of Applied Physiology*, 113(6): 903-8, 2012.

Carter JR, **Durocher JJ**, Larson RA, DellaValla JP, and Yang H. Sympathetic Neural Responses to 24-hour Sleep Deprivation in Humans: Sex Differences. *American Journal of Physiology: Heart and Circulatory Physiology*, 302: H1991-1997, 2012.

Durocher JJ, Lufkin KJ, King ME and Carter JR. Social technology restriction alters state-anxiety but not autonomic activity in humans. *American Journal of Physiology: Regulatory, Integrative and Comparative Physiology*, 301(6): R1773-1778, 2011.

Ebben WP, Wurm B, VanderZanden TL, Spadavecchia M, **Durocher JJ**, Bickham C, and Petushek EJ. Kinetic Analysis of Several Variations of Push-Ups. *Journal of Strength and Conditioning Research*, 25(10): 2891-2894, 2011.

Durocher JJ, Klein JC and Carter JR. Attenuation of sympathetic baroreflex sensitivity during the onset of acute mental stress in humans. *American Journal of Physiology: Heart and Circulatory Physiology*, 300(5): H1788-93, 2011.

Carter JR, Stream SF, **Durocher JJ**, and Larson RA. Influence of acute alcohol ingestion on sympathetic neural responses to orthostatic stress in humans. *American Journal of Physiology - Endocrinology and Metabolism*, 300: E771-E778, 2011.

Schwartz CE, **Durocher JJ**, and Carter JR. Neurovascular responses to mental stress in prehypertensive humans. *Journal of Applied Physiology*, 110: 76-82, 2011.

Durocher JJ, Guisfredi AJ, Leetun DT, and Carter JR. Comparison of on-ice and off-ice graded exercise testing in collegiate hockey players. *Applied Physiology, Nutrition, and Metabolism*, 35(1): 35-39, 2010.

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Durocher JJ, Schwartz CE, and Carter JR. Sympathetic neural responses to mental stress during acute simulated microgravity. *Journal of Applied Physiology*, 107: 518-522, 2009.

Durocher JJ, Leetun DT, and Carter JR. Sport-specific assessment of lactate threshold and aerobic capacity throughout a collegiate hockey season. *Applied Physiology, Nutrition, and Metabolism*, 33(6):1165-1171, 2008.

Carter JR, **Durocher JJ**, and Kern RP. Neural and cardiovascular responses to emotional stress in humans. *American Journal of Physiology: Regulatory, Integrative and Comparative Physiology*, 295(6): R1898-1903, 2008.

Durocher JJ, Jensen D, Arredondo AG, Leetun DT, and Carter JR. Gender differences in hockey players during on-ice graded exercise. *Journal of Strength and Conditioning Research*, 22(4): 1327-1331, 2008.

Other Publications:

Liu S and **Durocher J**. Barbara A. Horwitz and John M. Horowitz Outstanding Undergraduate Abstract Awards and Excellence in Undergraduate Research Awards. *The Physiologist* 61(5): 223-225.

Papers Close to Submission:

Wakeham TR, Elmer SJ, and **Durocher JJ**. Post-Exercise Arterial Stiffness Responses are Similar after Acute Eccentric and Concentric Arm Cycling. To be submitted to *Applied Physiology, Nutrition, and Metabolism*.

Wakeham TR and **Durocher JJ**. The Influence of Resistance and Aerobic Exercise Order on Acute Arterial Stiffness Responses. To be submitted to *Journal of Strength and Conditioning Research*.

Marti HL, Wakeham TR, Morin BE, and **Durocher JJ**. Effect of Single-Session Meditation on Aortic Pulsatility and Anxiety in Moderately Anxious Adults. To be submitted to *Alternative Therapies in Health and Medicine*.

Abstracts and Conference Proceedings: (62 total)

LewAllen SE, Morin BE, and Durocher JJ. Decentering and Arterial Stiffness in Young Adults. *The Michigan Physiological Society Annual Meeting*, Mt. Pleasant, MI, June 2019.

Poliskey JE, LewAllen SE, Maanika CB, Elmer SJ, Rajeshkumar L, Trewartha KM, and Durocher JJ. Effect of Dynamic Eccentric Leg Exercise Training on Strength, Mobility, and Arterial Stiffness in Older Adults. *The Michigan Physiological Society Annual Meeting*, Mt. Pleasant, MI, June 2019.

Greenlund IM, Cunningham HA, Tikkanen AL, **Durocher JJ**, Smoot CA, and Carter JR. Spectral Analyses of Slow Wave Sleep and Rapid Eye Movement Sleep are Associated with Changes in Continuous Nocturnal Blood Pressure. *SLEEP 2019, Associated Professional Sleep Societies, LLC*, San Antonio, TX, June 2019.

Durocher JJ, LewAllen SE, Maanika CB, Elmer SJ, Rajeshkumar L, and Trewartha KM. Effect of Dynamic Eccentric Leg Exercise Training on Functional Fitness and Arterial Stiffness in Older Adults. *FASEB J* April 2019 33: 695.15, *Federation of American Societies for Experimental Biology*, Orlando, FL.

Cunningham HA, Greenlund IM, Tikkanen AL, **Durocher JJ**, Smoot CA, and Carter JR. Spectral Power of Slow Wave Sleep is Associated with Reductions of Nocturnal Blood Pressure in Humans. *FASEB J* April 2019 33: 558.7, *Federation of American Societies for Experimental Biology*, Orlando, FL.

Greenlund IM, Cunningham HA, Tikkanen AL, **Durocher JJ**, Smoot CA, and Carter JR. Alpha Intrusion during Rapid Eye Movement (REM) Sleep Increases Blood Pressure. *FASEB J* April 2019 33: 558.6, *Federation of American Societies for Experimental Biology*, Orlando, FL.

Greenlund IM, Kimmes PE, Wang M, and **Durocher JJ**. Workplace Standing Desks and Arterial Stiffness. *The Michigan Physiological Society Annual Meeting*, Houghton, MI, June 2018.

Kimmes PE, Greenlund IM, and **Durocher JJ**. The Godin-Shephard Leisure-Time Physical Activity Questionnaire and Arterial Stiffness. *The Michigan Physiological Society Annual Meeting*, Houghton, MI, June 2018.

Maanika CB, Kumar LR, Elmer SJ, **Durocher JJ**, and Trewartha KM. Associations between Physical Fitness, Cognitive Functioning, and Motor Learning in Older Adults: a Preliminary Study. *The Michigan Physiological Society Annual Meeting*, Houghton, MI, June 2018.

McKenzie EE, Wakeham TR, and **Durocher JJ**. Bringing PhUn with Hands-On STEM to Stanton Township Schools. *The Michigan Physiological Society Annual Meeting*, Houghton, MI, June 2018.

Pereira TJ, **Durocher JJ**, and Burr JF. The Physiological Assessment and Analysis of the Physical Demand of Riding a Snowmobile. ACSM 2018, *American College of Sports Medicine*, Minneapolis, MN, May 2018.

Greenlund IM, Kimmes PE, Wang M, and **Durocher JJ**. Workplace Standing Desks and Arterial Stiffness. *FASEB J* April 2018 32: 722.8. *Federation of American Societies for Experimental Biology*, San Diego, CA.

Durocher JJ, Marti H, Morin B, and Wakeham TR. Single Session Mindfulness Meditation Reduces Aortic Pulsatile Load and Anxiety in Mild to Moderately Anxious Adults. *FASEB J* April 2018 32: 714.19. *Federation of American Societies for Experimental Biology*, San Diego, CA.

Wakeham TR, Fonkoue IT, **Durocher JJ**, Cooke WH, and Carter JR. Reliability of Heart Rate Variability as an Assessment of Cardiac Sympathetic Activity in Humans. *The Michigan Physiological Society Annual Meeting*, Alma, MI, June 2017.

Greenlund IM, Wakeham TR, Nelson EV, Revoyr MM, and **Durocher JJ**. The effect of Hibiscus sabdariffa tea on cardiovascular risk factors in prehypertensive adults. *The Michigan Physiological Society Annual Meeting*, Alma, MI, June 2017.

Marti HL, Wakeham TR, and **Durocher JJ**. Psychophysiological Effects of Acute Mindfulness Meditation. *The Michigan Physiological Society Annual Meeting*, Alma, MI, June 2017.

Wakeham TR, Fonkoue IT, **Durocher JJ**, Cooke WH, and Carter JR. Reliability of Heart Rate Variability as an Assessment of Cardiac Sympathetic Activity in Humans. *FASEB J* April 2017 31:1071.6. *Federation of American Societies for Experimental Biology*, Chicago, IL.

Wakeham TR, Greenlund IM, and **Durocher JJ**. Aortic Pulsatility and Arterial Stiffness After Acute Combined Resistance and Endurance Exercise. *FASEB J* April 2017 31:707.16. *Federation of American Societies for Experimental Biology*, Chicago, IL.

Wakeham TR, Fonkoue IT, **Durocher JJ**, and Carter JR. Reliability of Heart Rate Variability as an Assessment of Sympathetic Activity in Humans. *Upper Peninsula Medical Conference*, Copper Harbor, MI, August 2016.

Wakeham TR, Carter JR, Wang M, and **Durocher JJ**. Predicting muscle sympathetic nerve activity and mean arterial blood pressure responses to mental stress. *The Michigan Physiological Society Annual Meeting*, Detroit, MI, May, 2016.

Marti HL, Wakeham TR, Revoyr MM, and **Durocher JJ**. The Effect of Changes in Fitness and Fatness on Aortic Pulsatile Load. *The Michigan Physiological Society Annual Meeting*, Detroit, MI, May, 2016.

Wakeham TR, Elmer SJ, and **Durocher JJ**. Concentric vs. Eccentric Arm Cycling: Acute Cardiovascular and Arterial Stiffness Responses. ACSM 2016, *American College of Sports Medicine*, Boston, MA, May 2016.

Wakeham TR, Carter JR, Wang M, and **Durocher JJ**. Predicting muscle sympathetic nerve activity and mean arterial blood pressure responses to mental stress. *Federation of American Societies for Experimental Biology*, San Diego, CA, April 2016.

Wakeham TR, Morin B, and **Durocher JJ**. A blended learning approach for human skeletal anatomy with undergraduate students. *Federation of American Societies for Experimental Biology*, San Diego, CA, April 2016.

Wakeham TR, Morin B, and **Durocher JJ**. The Influence of a Role-Play Membrane Transport Laboratory on Lecture Performance and Student Satisfaction. *Human Anatomy and Physiology Society Regional Meeting*, Milwaukee, WI, November 2015.

Petushek EJ, Cokely ET, Ward P, **Durocher J**, Wallace S, and Myer GD. Visual Estimation of ACL Injury Risk: Efficient Assessment Method, Group Differences, and Expertise Mechanisms. *Upper Peninsula Medical Conference*, Copper Harbor, MI, August 2015.

Durocher JJ, Wakeham TR, Dixon RA, and Harwood MH. The Influence of Acute Resistance and Aerobic Exercise Order on Arterial Stiffness. ACSM 2015, *American College of Sports Medicine*, San Diego, CA, May 2015.

Wakeham TR, Harwood MH, Carter JR, and **Durocher JJ**. Obesity and neural cardiovascular responses to mental stress in humans. *The Michigan Physiological Society Annual Meeting*, Boyne, MI, April 2015.

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Wakeham TR, Harwood MH, Carter JR, and **Durocher JJ**. Obesity and neural cardiovascular responses to mental stress in humans. *Federation of American Societies for Experimental Biology*, Boston, MA, March 2015.

Harwood MH, Wakeham TR, and **Durocher JJ**. Mean arterial pressure and wave reflection during the cold pressor test: the influence of trunk fat. *Federation of American Societies for Experimental Biology*, Boston, MA, March 2015.

Stream SF, **Durocher JJ**, Chen QH, and Carter JR. Acute Alcohol Consumption Elicits Augmented Sympathoexcitation in Prehypertensive Humans. Research Society on Alcoholism Scientific Meeting, Bellevue, WA, June 2014.

Durocher BE, Harwood MH, Drum SN, Watts PB, Moore MT, and **Durocher JJ**. The Acute Cardiovascular and Inflammatory Responses to Ultramarathon and Marathon. ACSM 2014, American College of Sports Medicine, Orlando, FL, May 2014.

Harwood MH, Mets MR, Hamlin BH, and **Durocher JJ**. Relationships of Maximal Oxygen Consumption, LT and Anaerobic Power to Performance in Adolescent Mountain Bikers. ACSM 2014, American College of Sports Medicine, Orlando, FL, May 2014.

Harwood MH, Durocher BE, Drum SN, Watts PB, Moore MT, and **Durocher JJ**. The Acute Cardiovascular Responses to Marathon and Ultramarathon Competition. *The Michigan Physiological Society Annual Meeting*, East Lansing, MI, May, 2014.

Fonkoue IT, King ME, **Durocher JJ**, and Carter JR. Mental stress and cardiovascular reactivity in humans: A time-dependent response. *The Michigan Physiological Society Annual Meeting*, East Lansing, MI, May 2014 (oral presentation by Ida Fonkoue).

Durocher BE, Harwood MH, Edwards JC, Drum SN, and **Durocher JJ**. Influence of intensity on acute aortic pulse pressure and central arterial stiffness in long-distance runners. *Federation of American Societies for Experimental Biology*, San Diego, CA, April 2014.

Harwood MH, Strong CR, De Cramer CK, Carter JR, and **Durocher JJ**. Reliability of finger blood pressures with simultaneous ipsilateral radial applanation tonometry. *Federation of American Societies for Experimental Biology*, San Diego, CA, April 2014.

Larson RA, Yang H, **Durocher JJ**, and Carter JR. Total sleep deprivation and pain perception during cold noxious stimuli in humans: Role of sex. *Federation of American Societies for Experimental Biology*, San Diego, CA, April 2014.

Fonkoue IT, King ME, **Durocher JJ**, and Carter JR. Mental stress and cardiovascular reactivity in humans: A time-dependent response. *Federation of American Societies for Experimental Biology*, San Diego, CA, April 2014.

Yang H, **Durocher JJ**, Larson RA, King ME and Carter JR. Ovarian Cycle, Total Sleep Deprivation, and Cardiovascular Reactivity in Humans. *SLEEP 2013, Associated Professional Sleep Societies, LLC*, Baltimore, MD, June, 2013.

Carter JR, **Durocher JJ**, Yang H and Larson RA. Effects of the Ovarian Cycle on Sympathetic Neural and Cardiovascular Control during Total Sleep Deprivation in Humans. *SLEEP 2013, Associated Professional Sleep Societies, LLC*, Baltimore, MD, June, 2013.

Young AH, Strong CR, Cooke WH, Carter JR, and **Durocher JJ**. The influence of combined lower body negative pressure and mental stress on cerebral blood flow in men and women. *Federation of American Societies for Experimental Biology*, Boston, MA, April 2013.

Carter JR, **Durocher JJ**, Larson RA, DellaValla JP, and Yang H. Sleep Deprivation and Neural Cardiovascular Reactivity in Humans. *SLEEP 2012, Associated Professional Sleep Societies, LLC*, Boston, MA, June, 2012.

Durocher JJ, Witting JL, Drummer TD, and Carter JR. Influence of Night Shift Work on Sleep-Wake Cycle, 24-hour Blood Pressure and State Anxiety. *SLEEP 2012, Associated Professional Sleep Societies, LLC*, Boston, MA, June, 2012.

Yang H, **Durocher JJ**, Larson RA, DellaValla JP and Carter JR. Influence of 24-Hour Sleep Deprivation on Sympathetic and Cardiovascular Baroreflex Function in Humans. *SLEEP 2012, Associated Professional Sleep Societies, LLC*, Boston, MA, June, 2012.

Larson RA, **Durocher JJ**, DellaValla JP, Yang H, and Carter JR. Influence of Sleep Deprivation on Cardiovascular Reactivity and Pain Perception to Cold Pressor Test. *SLEEP 2012, Associated Professional Sleep Societies, LLC*, Boston, MA, June, 2012.

Durocher JJ and Carter JR. Influence of body mass index on neural cardiovascular reactivity to mental stress in humans. *Federation of American Societies for Experimental Biology*, San Diego, CA, April 2012.

Yang H, **Durocher JJ**, Larson RA, DellaValla JP, and Carter JR. Sex differences in sympathetic neural responses to 24-hour sleep deprivation in humans. *Federation of American Societies for Experimental Biology*, San Diego, CA, April 2012.

Larson RA, **Durocher JJ**, Yang H, DellaValla JP, and Carter JR. Influence of 24-hour sleep deprivation on anxiety and cardiovascular reactivity in humans. *Federation of American Societies for Experimental Biology*, San Diego, CA, April 2012.

Durocher JJ, Larson RA, DellaValla JP, and Carter JR. Influence of Sleep Deprivation on State-Anxiety and Arterial Blood Pressure in Humans. *SLEEP 2011, 25th Anniversary Meeting of the Associated Professional Sleep Societies, LLC*, Minneapolis, MN, June 2011.

Gorsuch J, Long, J, Miller K, Primeau K, Rutledge S, Sossong A, and **Durocher JJ**. The Effect of Squat Depth on Multi Articular Muscle Activity in Collegiate Cross-Country Runners. *Saint Francis University Annual Research Day*, May 2011.

Durocher JJ, Larson RA, and Carter JR. Acute alcohol ingestion lengthens sympathetic burst latency in humans. *Federation of American Societies for Experimental Biology*, Washington, DC, April 2011.

Schwartz CE, Joyner MJ, **Durocher JJ**, and Carter JR. Influence of omega-3 fatty acids on neurovascular responses to mental stress in normotensive humans. *Federation of American Societies for Experimental Biology*, Washington, DC, April 2011.

Carter JR, **Durocher JJ**, Schwartz CE, and Klein JC. Mental Stress Attenuates Sympathetic Baroreflex Sensitivity in Humans. *American Autonomic Society*, 2010.

Gorsuch J, Long, J, Miller K, Primeau K, Rutledge S, Sossong A, and **Durocher JJ**. The Effect of Squat Depth on Muscle Activation in Male and Female Cross-Country Runners. *International Society of Biomechanics in Sport*, 2010.

VanderZanden TL, Wurm B, **Durocher JJ**, Bickham C, Petushek EJ, and Ebben WP. The Effect of Reaching to an Overhead Goal While Performing the Countermovement Jump. *International Society of Biomechanics in Sport*, 2010.

Wurm B, VanderZanden TL, Spadavecchia M, **Durocher JJ**, Bickham C, Petushek EJ, and Ebben WP. Kinetic Analysis of Several Variations of Push-Ups. *International Society of Biomechanics in Sport*, 2010.

Schwartz CE, **Durocher JJ**, and Carter JR. Prehypertension alters arterial pressure and forearm vascular responses to mental stress in humans. *Federation of American Societies for Experimental Biology*, Anaheim, CA, April 2010.

Durocher JJ, Guisfredi AJ, Leetun DT, and Carter JR. Comparison of On-Ice and Off-Ice Graded Exercise Testing in Collegiate Hockey Players. *Mid-Atlantic Regional Conference of the American College of Sports Medicine*. Abstract P-7, November 2009.

Durocher JJ, Schwartz CE, and Carter JR. Mental Stress During Acute Loading of the Baroreceptors. *Federation of American Societies for Experimental Biology* 23:786.9, 2009.

Durocher JJ, Bustos DJ, Schwartz CE, and Carter JR. Post-game cycling does not enhance blood lactate removal in collegiate hockey players. *The Physiologist* 51(6):22.13, 2008.

Durocher JJ, Kern RP, and Carter JR. Effects of emotional and mental stress on muscle sympathetic nerve activity in humans. *Federation of American Societies for Experimental Biology* 22:740.6, 2008.

Peer-Reviewer:

American Journal of Hypertension

American Journal of Physiology: Heart and Circulatory Physiology

American Journal of Physiology: Regulatory, Integrative and Comparative Physiology

BMC Complementary & Alternative Medicine

Clinical Autonomic Research

Ergonomics

Experimental Physiology

International Journal of Environmental Research and Public Health

International Journal of Sports Medicine

Journal of Applied Physiology

Journal of Sports Sciences

Updated 10/3/2019

Medicine & Science in Sports & Exercise
Neuroscience Bulletin
Pain Medicine
Physiology & Behavior
Physiological Reports
Safety
Sports Health
Women in Sport and Physical Activity Journal

Society and Fellowship Review

American Physiological Society (Horwitz & Horowitz Awards)
Michigan Physiological Society (coordinator of abstract review, oral presentation judge, and poster judge)
Michigan Technological University Summer Undergraduate Research Fellowship
National Strength and Conditioning Association Wisconsin State Clinic

Graduate Research Publications:

Durocher JJ. Aerobic Fitness and Lactate Metabolism in Collegiate Hockey Players. UMI Publishers (Microform 3339426), Doctoral Dissertation, Michigan Technological University, 2008.

Durocher JJ. Effects of Clipless Pedals on Ventilatory Threshold, EMG, and Economy during Cycle Ergometry. Master's Thesis, Northern Michigan University, 2006.

University Publications:

Harwood MH, Wakeham TR, Gratz RK, and **Durocher JJ.** Principles of Anatomy and Physiology Laboratory I, revised laboratory manual for BL 2011 Anatomy and Physiology Laboratory, Michigan Technological University, 2011-2014.

Wakeham TR, Harwood MH, Gratz RK, Harris MA and **Durocher JJ.** Principles of Anatomy and Physiology Laboratory II, revised laboratory manual for BL 2021 Anatomy and Physiology Laboratory, Michigan Technological University, 2012-2015.

Durocher JJ. Exercise Physiology Internship Manual, developed guidelines and evaluation tools for EXPH 398/399 internship/practicum, Saint Francis University, 2010.

Durocher JJ. Exercise Assessment and Prescription Laboratory Manual, developed entire laboratory course and manual for EH 3100 exercise assessment and prescription, Michigan Technological University, 2007.

Durocher JJ and Carter JR. Exercise Physiology Laboratory Manual, developed entire laboratory course and manual for EH 4211 exercise physiology lab, Michigan Technological University, 2006.

Invited Presentations:

"Meditation and Arterial Stiffness Studies at Michigan Tech." Michigan Tech Bioathlon Teacher Workshop (including hands-on laboratory demonstrations), May 2019.

"Applied Skeletal Muscle Anatomy and Physiology." Houghton Portage Township High School Anatomy and Physiology Class, December 2018.

"From E.B. Holman Student to Michigan Tech Professor." Stanton Township Schools Commencement Speaker, June 2018.

"Tips for Endurance Athletes." Part of *Anish Hikes: Stories from the Trail*. Michigan Technological University, April 2017.

"Assessing Arterial Stiffness in Humans: How Effective are Lifestyle Interventions?" Michigan Community College Biologists Conference, Roscommon, MI, May 2016.

"Careers and Research in Clinical and Applied Human Physiology." Introduction to Health Professions course at Michigan Tech, October 2015.

"Professional Sports Combines: How athleticism is measured." Keweenaw Science and Engineering Festival, August 2015.

"Human Power Production: Concentric and Eccentric Cycling." Women in Engineering at Michigan Tech, July 2015.

"Friday Night Fitness at Cross Country Sports." Western UP Health Dept. and Swedetown Trails Club, June & July 2015 (weekly presentations on topics including: VO₂max, Lactate Threshold, Running Economy, Strength Training for Runners, Sports Nutrition, and Interval Training).

"Exercise and Nutritional Strategies to Reduce Arterial Stiffness." UP Health – Portage, Lunch and Learn, April 2015.

"Strength and Conditioning Strategies for Reducing Arterial Stiffness in Humans." Michigan Tech Kinesiology and Integrative Physiology Seminar Series, January 2015.

"Ethics Workshop – Human Participants." Michigan Tech Responsible Conduct for Research Course, May 2014.

"Careers in Clinical and Applied Human Physiology." Michigan Tech Biochemistry Orientation, October 2013 and 2014.

"An Introduction to MTU Anatomy & Physiology I & II." Finlandia University TRIO Upward Bound Students, July 2013.

"Assessment of Anaerobic Power for Mountain Bikers." Michigan Tech Mountain Bike Camp, June 2013.

"F.I.T.T.ness Recommendations for Phase III and IV Cardiopulmonary Rehabilitation." Portage Health Cardiopulmonary Services, March 2013.

"Health Care Careers Related to Human Physiology and Kinesiology." Michigan Tech Summer Youth Program for Careers in Health Care, July 2012.

“Scientific Assessment and Training for Cross-Country Mountain Bike Racing.” Michigan Tech Mountain Bike Camp, June 2012.

“Autonomic Regulation of Blood Pressure: non-pharmacological solutions for hypertension and orthostatic hypotension.” Michigan Tech Department of Biological Sciences, March 2012.

“Nutritional Recommendations for Military Training.” Michigan Tech Air Force Reserve Officers' Training Corps, February 2012.

“Sleep and Cardiovascular Control in Humans.” Michigan Tech Department of Biological Sciences Seminar Series, December 2011.

“Concurrent Training for Endurance Sports: Maximize Performance and Prevent Injury.” Michigan Tech Mountain Bike Camp, June 2011.

“Endurance Physiology for Cross-Country Mountain Bikers.” Michigan Tech Mountain Bike Camp, June 2010.

“The Fundamentals of Resistance and Endurance Training.” Razor Sharp Fitness - Transitions Weight Management Group, Racine, WI, April 2009.

“The Basics of Biomechanics and Exercise Physiology.” Introduction to Applied Health Science Course, University of Wisconsin – Parkside, February 2009.

“Training Safely and Effectively to Minimize Injury and Disease.” Razor Sharp Fitness – Transitions Weight Management Group, Racine, WI, January 2009.

“Aerobic Fitness and Lactate Metabolism in College Hockey Players.” National Strength and Conditioning Association – Wisconsin State Clinic, Oshkosh, WI, April 2008.

“Sport Specific Fitness Assessment, Autonomic Regulation of Arterial Blood Pressure, and Pursuing a Graduate Degree at Michigan Tech.” Advanced Seminar in Exercise Science, Northern Michigan University, February 2008.

“Physiological Responses and Measurements during Aerobic Exercise.” Michigan Technological University Bio-Athlon, May 2007.

“Gender Differences in Hockey Players during On-Ice Graded Exercise.” Sigma Xi Multi-Disciplinary Student Research Colloquium, April 2007.

“Physiological Characteristics and Nutritional Guidelines for Cross-Country Mountain Bikers.” Sports Nutrition Seminar Course, Michigan Technological University, March 2007.

Workshops Completed:

Diversity Literacy and Legal Aspects Certification. Michigan Tech ADVANCE Diversity Literacy Program, Houghton, MI, November 2012 and fall of 2017.

The Basics of Sleep. Sleep Research Society. SLEEP 2011, 25th Anniversary Meeting of the Associated Professional Sleep Societies, LLC, Minneapolis, MN, June 2011.

Visualizing the Future of Teaching Anatomy and Physiology. Wiley Faculty Network, Las Vegas, NV, March 2011.

Running on Empty: a conference on eating disorders that addresses issues regarding causes, effects and the search for solutions. UW-Parkside Center for Community Partnerships, Kenosha, WI, March 2009.

Service:

- 2019-Pres Past-President, Michigan Physiological Society
- 2019-Pres Executive Committee Member, Health Research Institute (HRI) at Michigan Tech
- 2019-Pres H-STEM Planning Group, Michigan Tech Vice President of Research Office
- 2019-Pres Tenure, Promotion, and Reappointment Committee, Michigan Tech Biological Sciences
- 2019-Pres Early Career Management Committee, External Advocate, Michigan Tech Cognitive and Learning Sciences
- 2018-Pres Physiology Educators Committee of the American Physiological Society
- 2018-2019 Comparative Animal Physiologist Search Committee, Michigan Tech
- 2018-2019 JED Campus Committee Member, Michigan Technological University
- 2018-2019 President, Michigan Physiological Society
- 2018 Chair of Biological Sciences Seminar Series (spring)
- 2017-Pres Curriculum Committee, Michigan Tech Biological Sciences
- 2017-2018 President Elect, Michigan Physiological Society
Co-Organizer, Michigan Physiological Society Annual Meeting (at MTU)
- 2016-2017 Director of Pre-Health Programs at Michigan Tech
- 2016-Pres Graduate Faculty Member, Department of Human Health & Nutritional Sciences, University of Guelph (Ontario, Canada)
- 2016-2017 Awards Chair, Michigan Physiological Society Annual Meeting
- 2015-2016 Co-Chair of Health Science Faculty Search Committee, Michigan Tech Biological Sciences

2015	Chair of Oral Presentation Judging, Michigan Physiological Society Annual Meeting
2014	Review Committee, Michigan Tech applicants to the Central Michigan Doctor of Physical Therapy Program
2014	Internal Reviewer, Summer Undergraduate Research Fellowships, Michigan Tech
2013-Pres	Graduate Faculty Council, Alternate Representative for Biological Sciences
2013	Search Committee, Michigan Tech Biological Sciences (Medical Laboratory Science Lecturer)
2013	Search Committee, Michigan Tech Kinesiology & Integrative Physiology (Biomechanics)
2012-2015	Graduate Committee, Michigan Tech Biological Sciences
2012-2017	Communications and Outreach Committee, Michigan Tech Biological Sciences
2012-2013	Safety Committee, Michigan Tech Biological Sciences
2012-2013	Search Committee, Michigan Tech Kinesiology & Integrative Physiology
2012	Bioathlon Dissection Designer, Michigan Tech Biological Sciences
2011-2014	Graduate Curriculum Committee, Michigan Tech Department of Kinesiology and Integrative Physiology
2011	Internal Reviewer, Summer Undergraduate Research Fellowships, Michigan Tech
2010-2011	Curriculum Committee, Chair, Michigan Tech Department of Exercise Science, Health & Physical Education
2010	Internal Reviewer, Strategic Faculty Hiring Initiative in Health, Michigan Tech
2009-2010	Sport Management Committee, Saint Francis University
2009	Human Subjects Committee, University of Wisconsin – Parkside
2008-2009	Applied Health Science Steering Committee, Department of Biology and Department of Health, Exercise Science and Sport Management, UW - Parkside
2008-2009	Curriculum Committee, Department of Health, Exercise Science and Sport Management, UW - Parkside
2007-2008	MTU Graduate Student Council, Biological Sciences Representative and Lecture Committee Member

2007-2008 MTU Faculty Search Committee, Department of Exercise Science, Health & Physical Education

2007 Bioathlon Exercise Science Designer, Michigan Tech Biological Sciences

Professional Affiliations:

2018-present: Midwest Regional Chapter of the American College of Sports Medicine

2014-present: Michigan Physiological Society, Member and Past-President

2008-present: The American Physiological Society, Professional Member

2007-2014; 2018-present: National Strength and Conditioning Association

2004-2016; 2018-present: American College of Sports Medicine

2013-2014: The American Heart Association

2012-2014: The Human Anatomy and Physiology Society

2008-2009: Canadian Society for Exercise Physiology

Professional Certifications:

- Certified Exercise Physiologist, American College of Sports Medicine
- Certified Strength & Conditioning Specialist, National Strength & Conditioning Assoc.
- Adult First Aid/CPR/AED, American Red Cross

Honors and Awards:

2018: Top 10% Instructor, Michigan Tech

2017: Top 10% Instructor, Michigan Tech

2016: Top 10% Instructor, Michigan Tech

2016: Props for Profs Award, Michigan Tech

2015: Top 10% Instructor, Michigan Tech

2014: Certificate of Appreciation, Outstanding Contributions as a Faculty Member, Greek Life

2014: Props for Profs Award, Michigan Tech

2012: Research Career Enhancement Award, The American Physiological Society (APS)

2011: Caroline tum Suden / Frances Hellebrandt Professional Opportunity Award, The APS

2008: Biotechnology Research Center Travel Grant, Michigan Tech

2007: Proposal Incentive Award, Michigan Tech Graduate School

2007: 2nd Place Presentation, Sigma Xi Multi-Disciplinary Student Research Colloquium

2004: Graduated Cum Laude, Michigan Tech

2003: Certificate of Merit in Calculus for Life Sciences, Michigan Tech

2003: Nominated for Dean's Award for Service, Michigan Tech

2003: Departmental Scholar, Biological Sciences, Michigan Tech

2001: Firefighter I Certificate, Firefighter's Training Council, Michigan State Police

Graduate Student Advising:

Advisor: Aditi Vyas, PhD in Biological Sciences
Michigan Technological University
Started in September 2018

- Advisor: Sarah LewAllen, MS in Biological Sciences
Michigan Technological University
Started in September 2019
- Advisor: Basirat Tolulope Shittu, MS in Biological Sciences
Michigan Technological University
Started in January 2019
- Co-Advisor Claire Danielson, MS in Laboratory Management
Michigan Technological University
Will defend in November 2019
- Committee Member: Joshua Gonzalez, PhD in Integrative Physiology
Michigan Technological University
Started in spring 2018
- Co-Advisor: Hannah Cunningham, MS in Kinesiology
Michigan Technological University
Started in fall 2018
- Committee Member: Tania Peirera, MS in Nutrition, Exercise and Metabolism
University of Guelph (Ontario, Canada)
MS awarded in December 2018
- Advisor: Aprille Hibbard, MS Peace Corps
Michigan Technological University
To defend about May 2021
- Advisor: Ian Greenlund, MS in Biological Sciences
Michigan Technological University
MS awarded in April 2018
- Advisor: Travis Wakeham, MS in Biological Sciences
Michigan Technological University
MS awarded in April 2018
- Committee Member: Grace Parikh, PhD in Forest Resources &
Environmental Sciences
Michigan Technological University
PhD awarded in August 2019
- Committee Member: Matthew Gage, MS in Kinesiology & Integrative Physiology
Michigan Technological University
MS awarded in April 2017
- Committee Member: Zainab Ibrahim Alshong, PhD in Chemical Engineering
Michigan Technological University
Proposal Defense in 2017

- Committee Member: John Henderson, PhD Student in Forest Resources & Environmental Sciences
Michigan Technological University
PhD awarded in April 2018
- Committee Member: Alex Van Der Merwe, MS in Human Factors
Michigan Technological University
MS awarded in April 2016
- Committee Member: Grace Parikh, MS in Forest Resources & Environmental Sciences
Michigan Technological University
MS awarded in April 2015
- Committee Member: Erich Petushek, PhD in Human Factors
Michigan Technological University
PhD awarded in August 2014
- Committee Member: Kara Peltier, MS in Medical Informatics
Michigan Technological University
MS awarded in August 2014
- Committee Member: Huan Yang, PhD in Biological Sciences
Michigan Technological University
PhD awarded in August 2013
- Committee Member: Robert Larson, MS in Biological Sciences
Michigan Technological University
MS awarded in December 2012
- Co-Advisor: Jennifer Witting, MS in Biological Sciences
Michigan Technological University
MS awarded in December 2011

Completed Mentoring Experience:

Sarah LewAllen, undergraduate student at Michigan Technological University, “Decentering and Arterial Stiffness in Young Adults,” 2019.

- 6th Annual Michigan Physiological Society Conference at Central Michigan University, Poster Presentation Award Winner
- Medical Laboratory Sciences and Molecular Genetics Symposium at Northern Michigan University, Oral Presentation

Lindsey Hoper, undergraduate student at Wayne County Community College, “The Six-Minute Walk Test and Arterial Stiffness in Older Adults,” summer 2018.

- Keynote speaker for MiCUP banquet at Michigan Technological University.

Hannah Marti, undergraduate student at Michigan Technological University, "Psychophysiological Benefits of Acute Mindfulness Meditation Practice," 2016-2017.

- Portage Health Foundation Research Scholarship.
- 2016 Michigan Tech Undergraduate Research Symposium honorable mention.
- This study was featured in several news outlets including: Newsweek, US News, Mens Journal, Chicago Tribune, Forbes, Science Daily, Healthline, and many others.
- Hannah received an Aspirus Medical Provider Scholarship in Jan. 2019 to the Medical College of Wisconsin – Central Wisconsin.

Hannah Marti, undergraduate student at Michigan Technological University, "The Effect of Changes in Fitness and Fatness on Aortic Pulsatile Load," 2015-2016.

- Portage Health Foundation Research Scholarship.
- 2016 Michigan Tech Undergraduate Research EXPO 2nd place poster award.
- 2016 Michigan Physiological Society poster presentation award.

Travis Wakeham, graduate student at Michigan Technological University, "Arterial Stiffness Following Acute and Chronic Upper-Body Eccentric Exercise," spring 2016. **co-mentored with Dr. Steven Elmer from MTU Kinesiology & Integrative Physiology**

- 2016 Graduate Student Colloquium Best Oral Presentation.
- 2016 Graduate Student Colloquium Best Attended Oral Presentation.

Travis Wakeham, undergraduate student at Michigan Technological University, "Obesity and neural cardiovascular responses to mental stress in humans," spring 2015.

- David S. Bruce Outstanding Undergraduate Abstract Award.
- David S. Bruce Excellence in Undergraduate Research Award.

Ryan Dixon, undergraduate student at Michigan Technological University, "The Influence of Acute Resistance and Aerobic Exercise Order on Arterial Stiffness," spring 2015.

- Full Scholarship (WSU Board of Governors Merit Scholarship) to Wayne State University School of Medicine.

Marie Mets, undergraduate student at Michigan Technological University, "Relationships of VO₂max, LT and Anaerobic Power to Performance in Adolescent Mountain Bikers," MTU SURF award (\$3,300) and presented a poster at the Undergraduate Research Expo, spring 2014.

Bridget Durocher, graduate student at Northern Michigan University, "Influence of Intensity on Acute Aortic Pulse Pressure and Central Arterial Stiffness in Long-Distance Runners," Northern Michigan University Spooner Grant (\$500), spring 2014.

Bridget Durocher, graduate student at Northern Michigan University, "Acute Effects of the Marquette 50 and Marquette Marathon on Cardiovascular Health," Northern Michigan University Excellence in Education Grant (\$1,500), spring 2013.

Angelea Young and Chelsea Strong, undergraduate students at Michigan Technological University, "The influence of combined lower body negative pressure and mental stress on cerebral blood flow in men and women," fall 2012.

Jennifer Witting, Master of Science Student at Michigan Technological University, "The Effects of Fixed Night Shift Work on 24 Hour Blood Pressure Regulation, State Anxiety Levels and Total Sleep Time," summer/fall 2011.

David Sproule, undergraduate student in Exercise Science at Michigan Technological University, "Training to Improve the Hockey Snap and Wrist Shot with Resistance Training and the SuperShooter2©," summer 2010.

Joshua Gorsuch, Janey Long, Katie Miller, Kyle Primeau, Sarah Rutledge, and Andrew Sossong, Doctor of Physical Therapy students at Saint Francis University, research assistants for "The Effect of Squat Depth on Multiarticular Muscle Activation in Collegiate Cross-Country Runners," 2009-2011.

- Joshua Gorsuch, DPT, 2011 Department of Physical Therapy Research Award, Saint Francis University

Angela Guisfredi, undergraduate student in Exercise Science at Michigan Technological University, Summer Undergraduate Research Fellowship award winner, research assistant for "Comparison of Sport-Specific and Laboratory Graded Exercise Testing in Collegiate Hockey Players," summer 2009.

- Angela Guisfredi, 2010 Michigan Tech Undergraduate Research EXPO, 3rd place award

Derek J. Bustos, undergraduate student in Exercise Science and Biological Sciences at Michigan Technological University, completed an internship in research for "Active Recovery and Blood Lactate Removal in Collegiate Hockey Players," spring 2008.

Aaron G. Arredondo, undergraduate student in Biological Sciences at Michigan Technological University, completed senior essay course as a research assistant for "Gender Differences in Hockey Players during On-Ice Graded Exercise," fall/spring 2006-2007.

Additional Work and Volunteer Experience:

2019: Chassell Trails Club. Advised the club on a grant to secure ten pieces of bodyweight exercise equipment to install on their 4-km trail loop. We are helping to assemble and install equipment and will lead students to make videos for proper exercise technique this fall (to be posted on Chassell.net).

2017-2018: Volunteer Announcer at Canal Run.

2018: Co-Organizer of the Sizzling through Stanton 5-mile run.

2017: Physiology is Understanding (PhUn) Week. Stanton Township 4th grade class (Three visits including Careers in Physiology and Assessing Vital Signs, Exercise Physiology, and Cardiovascular Anatomy & Physiology).

2017: Little Brothers Friends of the Elderly. Donated firewood.

2016-2017: Copper Country Junior Hockey Assistant Coach (8U).

2015-2016: Co-Organizer of the Swedetown Trail Run (5k, 10k, 25k, and 50k).

2015-2017: Owner and Operator, John Durocher Forestry (timber sale marking and firewood sales), Atlantic Mine, MI.

2015-2016: Volunteer for "Give Drugs the Boot" boot hockey tournament held at the Calumet-Laurium-Keweenaw School.

2014-2017: Co-Organizer of the Mount Bohemia Trail Running Festival (5k, 10k, half-marathon, and 50k).

2011-Pres: Coach and Instructor, Michigan Tech Mountain Bike Camp.

2011: Presenter, The Science of Hockey, in conjunction with Michigan Tech Mind Trekkers, Joe Louis Arena, Detroit, MI.

2010: Instructor, Sports Science, Summer Youth Program, Michigan Tech.

2007: Instructor, The Physics and Physiology of Sports, Summer Youth Program, Michigan Tech.

2007: Teaching Assistant, American Indian Workshop, Michigan Tech.

2002-2004, 2006: Certified Personal Trainer, Keweenaw Memorial Rehabilitation and Fitness, Houghton and Laurium, MI.

2005: Cardiopulmonary Intern, Marquette General Hospital, Marquette, MI.

2004: College Tutor, Exercise Physiology, Northern Michigan University, Marquette, MI.

2003-2004: Forest Research Technician and Site Supervisor, USDA Forest Service North Central Research Station, Houghton, MI.

2003-2004: Learning Center Coach, Department of Biological Sciences, Michigan Tech.

2003-2004: Physical Therapy Volunteer, Keweenaw Memorial Rehabilitation & Fitness Center and Portage Health, Houghton & Hancock, MI.

2003-2004: Security Clerk, Public Safety, Michigan Tech.

2002-2004: Undergraduate Teaching Assistant, Dept. of Biological Sciences, Michigan Tech.

2003: Undergraduate Research Assistant, Dept. of Biomedical Engineering, Michigan Tech.

2002-2008: Volunteer Firefighter, Stanton Township Fire Department, Houghton, MI.

1999-2001: Owner and Operator, John Durocher Logging, Atlantic Mine, MI.

Summary of Research Laboratory Alumni:

Undergraduate Research Assistants:

Michelle King – Michigan State University College of Human Medicine

Angelea Young – Michigan State University College of Human Medicine

Marie Mets – Central Michigan University Department of Physical Therapy

Ryan Dixon – Wayne State University School of Medicine

Courtney De Cramer – Central Michigan University College of Medicine

Derek Pierce – Central Michigan University College of Medicine

Elizabeth Champagne – Wayne State University School of Medicine

Mikayla Revoyr – Michigan State University College of Human Medicine

Hannah Marti – Medical College of Wisconsin – Central Wisconsin

Graduate Research Assistants:

Travis Wakeham – Michigan Tech Biological Sciences Academic Advisor and Instructor

Nikko Sirdenis – Central Michigan University College of Medicine

Ian Greenlund – Michigan Tech PhD Program in Integrative Physiology