Jon-Philippe K. Hyatt

Arizona State University
411 N. Central Ave. #329
Phoenix, AZ 85004

602.496.0752 (w)
818.625.9606 (c)
jphyatt@asu.edu

Professional experience

2016-pres Associate Professor
College of Integrative Sciences and Arts
Associate Director, School of Applied Sciences and Arts, *2025-present*
Honors Faculty, Barrett, The Honors College
Arizona State University
ASU Profile: https://isearch.asu.edu/profile/3008807
Lab website: https://jphyatt.lab.asu.edu/

2010-2016 Associate Professor
Department of Human Science
Georgetown University
Interim Department Chair (*07/2010 – 12/2011*)

2004-2010 Assistant Professor
Department of Human Science
Georgetown University

2003-2004 Postdoctoral Fellow, National Institutes of Health
National Institute of Arthritis and Musculoskeletal Diseases (NIAMS)

2002-2003 Post doctorate, University of California, Los Angeles
Neuromuscular Physiology

Education

1997-2002 Ph.D. **University of California, Los Angeles**
Molecular, Cellular, and Integrative Physiology
Advisor: V. Reggie Edgerton
Thesis: The neural modulation of MyoD, Myogenin, and the satellite cell in adult skeletal muscle.

1994-1997 M.S. **University of Massachusetts, Amherst**
Exercise Science (emphasis: biochemistry)
Advisor: Priscilla M. Clarkson (*deceased*)
Thesis: Release and clearance of creatine kinase-MM isoforms following repeated bouts of soreness-inducing exercise.

1989-1993 A.B. **Occidental College**, Los Angeles, CA
Exercise Science (emphasis: biomechanics)
Advisor: Stuart G. Rugg
Minor: History (emphasis: science and medical history)

Grants

Completed

ISSR (Firetto, ASU) 06/2020-06/2021
Arizona State University $8,000
Leveraging collaborative in-class learning exercises (CICLEs) to promote a deeper understanding of anatomy and physiology.
Role: Co-PI

VJ95022 (Firetto, ASU) 05/2018-08/2018
Arizona State University $13,525
Supporting undergraduate students' construction of an integrated understanding of anatomy and physiology.
Role: Co-PI (15%)

No award number (Tilan, Georgetown) 01/2015-06/2017
Georgetown University $15,000
Tablet-based "Chalk Talks" to facilitate a capstone experience in the biological sciences
Role: Co-PI (no % specified)

1 D18HP13620 (Hyatt) 09/01/2009 – 08/31/2013
Health Resources and Services Administration (HRSA) $1,147,024
Pathways to Success
Role: PI (40%)

1 R15AR060469-01A1 (Huey, Drake University) 09/2011-08/2013
NIH/NIAMS (subcontract) $414,990
VEGF and Skeletal Muscle Adaptation during Chronic Overload
Role: Co-I (5%)

No award number (Evans, Georgetown) 10/01/2005 – 09/30/2009
Goldman Sachs Foundation $510,000
Pathways to Success Program
Role: Co-PI (15%)

1R25RR17429 (Evans, Georgetown) 09/30/2002 – 08/31/2005
NIH / NCRR $322,732
Community Building to Promote Biomedical Health Careers
Role: Co-I (10%)

Awards

2025 Conference Award - $600
Human Anatomy and Physiology Society (HAPS) Annual Conference
Pittsburgh, PA

2023-24 Faculty Impact Award (informal, student nominated)
Edson College of Nursing and Health Innovation; University College, Arizona State University

2009 Faculty Excellence Award
Department of Human Science, Georgetown University

2003-4 NIH Intramural Research Training Award (IRTA)
National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)

2002 Environmental and Exercise Physiology Steering Committee Gatorade Young Investigator Award
American Physiological Society

2001 UCLA Faculty Research Grant - $2,500 (co-author V. Reggie Edgerton, faculty advisor)
Electrical activity-independent regulation of MyoD, Myogenin, and satellite cells in adult skeletal muscle

2001 Sigma Xi Society Student Grant - $350
Neural influence on MyoD and Myogenin mRNA and protein expression in skeletal muscle

2001 Graduate Division Travel Grant, UCLA - $600

2000 UCLA Faculty Research Grant - $1,500 (co-author V. Reggie Edgerton, faculty advisor)
Dystrophin restoration using pluripotent adult skeletal muscle stem cells

2000 American College of Sports Medicine Pre-Doctoral Foundation Grant - $5,219
The role of muscle stem cells following skeletal muscle damage

1999 Sigma Xi Society Student Grant - $862
Do intramuscular-derived mitogens commit muscle stem cells to a myogenic lineage?

1997-8 Doctoral Student Fellowship, Dept. of Physiological Science, UCLA

1997 Graduate Division Travel Grant, Univ. Massachusetts, Amherst - $150

1996 Graduate Division Travel Grant, Univ. Massachusetts, Amherst - $100

1993 Distinction: qualifying exams, Dept. of Exercise Science, Occidental College

Peer-reviewed Journal Publications

Italicized: pending / forthcoming
*undergraduate student co-authors
†contributed equally to the work
IF: Impact Factor

Hyatt JPK, Bienenstock EJ, Firetto CM, Woods ER*, Comus RC*. Using aggregated AI detector outcomes to eliminate false positives in STEM-student writing. *Advances in Physiology Education,* 49(2): 486-495, 2025. doi: 10.1152/advan.00235.2024 **IF: 1.7**

- **Altmetric Score: 23**
- **Downloads: 4,445** (Dec. 2025)

Hyatt JPK, Lu EJ*, McCall GE. Temporal expression of mitochondrial life cycle markers during acute and chronic overload of rat plantaris muscles. *Frontiers in Physiology: Exercise Physiology* 15: 1420276, 2024. doi: 10.3389/fphys.2024.1420276 **IF: 3.2**

Serrano N, **Hyatt JPK**, Houmard JA, Murgia M, Katsanos CS. Muscle Fiber Phenotype: A Culprit of Abnormal Metabolism and Function in Skeletal Muscle of Humans with Obesity. *American Journal of Physiology-Endocrinology and Metabolism* 325(6): E723-E733, 2023. doi: 10.1152/ajpendo.00190.2023 **IF: 5.1**

- **Designated as "Top Article" by American Physiological Society, Feb. 2024**
- **Downloads: 5,671** (Dec. 2025)

Hyatt JPK, Mattison JA, de Cabo R. Resveratrol Blunts Mitochondrial Loss in Slow and Mixed Skeletal Muscle Phenotypes of Non-Human Primates following a Long-Term High Fat/Sugar Diet. *Journal of Dietary Supplements* 20(4): 563-581, 2023. doi: 10.1080/19390211.2022.2039340 **IF: 2.27**

Firetto CM, Starrett E, Montalbano AC, Yan Y, Penkrot TA, Kingsbury JS, **Hyatt JPK**. The Impact of Effective Study Strategy Use in an Introductory Anatomy and Physiology Class. *Frontiers in Education: STEM Education* 8: 1161772, 2023. doi: 10.3389/feduc.2023.1161772 **IF: 2.32**

Yan L, Firetto CM Starrett E, Kingsbury JS, Penkrot TA, **Hyatt JPK**. Exploring Supports or Incentives to Promote Undergraduate Students' Use of Cooperative Study Groups. *International Journal of Educational Research Open* 4: 100252, 2023. doi: 10.1016/j.ijedro.2023.100252 **IF: 2.845**

Hyatt JPK. MOTS-c increases in skeletal muscle following long-term physical activity and improves acute exercise performance after a single dose. *Physiological Reports* 10 (13): e15377, 2022. doi: 10.14814/PHY2.15377 **IF: 2.26**

- **Identified as "one of the most downloaded" articles from Journal for AY2022**
- **Downloads: 4,904** (Dec. 2025)

Hyatt JPK, Brown EA*, Deacon HM*, McCall GE. Muscle-specific sensitivity to voluntary physical activity and detraining. *Frontiers in Physiology: Exercise Physiology* 10: 1328, 2019. doi: 10.3389/fphys.2019.01328 **IF: 3.201**

- **Views: 5,433** (Dec. 2025)

Hyatt JPK, Bienenstock EJ, Tilan JU. A student guide to proofreading and writing in science. *Advances in Physiology Education* 41: 324-331, 2017. doi:10.1152/advan.00004.2017 IF**: 1.723**

- **Altmetric Score: 88**
- **Downloads: 23,121** (Dec. 2025)

Hyatt JPK, Nguyen L, Hall AE*, Huber AM*, Kocan JC*, Mattison JA, de Cabo R, LaRocque JR, Talmadge RJ. Muscle-specific myosin heavy chain shifts in response to a long-term high fat / high sugar diet and resveratrol treatment in nonhuman primates. *Frontiers in Physiology: Striated Muscle Physiology* 7: 77, 2016. doi: 10.3389/fphys.2016.00077 **IF: 4.031**

- **Altmetric Score: 188**
- **Views: 25,645** (Dec. 2025)

Parvaresh KC*, Huber AM*, Brochin RL*, Bacon PL*, McCall GE, Huey KA, **Hyatt JPK**. Acute vascular endothelial growth factor expression during hypertrophy is muscle phenotype-specific and localizes as a striated pattern within fibers. *Experimental Physiology* 95(11): 1098-1106, 2010. doi: 10.1113/expphysiol.2010.053959 (*November on-line cover*) **IF: 3.168**

Hyatt JPK, Hurst SA. Novel undergraduate physiology laboratory using a human patient simulator. *Medical Education* 44(5): 523, 2010. doi: 10.1111/j.1365-2923.2010.03651.x **IF: 2.696**

Hyatt JPK, Roy RR, Rugg SG, Talmadge RJ. Myosin heavy chain composition of tiger (*Panthera tigris*) and cheetah (*Acinonyx jubatus*) hindlimb muscles. *Journal of Experimental Zoology Part A: Ecological Genetics and Physiology* 313(1): 45-57, 2010. doi: 10.1002/jez.574 **IF: 1.549**

Hyatt JPK, McCall GE, Kander EM*, Zhong H, Roy RR, Huey KA. Pax3/7 expression coincides with MyoD during chronic skeletal muscle overload. doi: 10.1002/mus.21006. *Muscle and Nerve* 38(1): 861-866, 2008. **IF: 2.594**

Pae EK†, **Hyatt JPK†**, Wu J, Chien P**.** Short-term electrical stimulation alters tongue muscle fiber type composition. *Archives of Oral Biology* 52(6): 544-551, 2007. doi: 10.1016/j.archoralbio.2006.12.002 **IF: 1.379**

Sacheck JM, **Hyatt JPK**, Raffaello A, Jagoe RT, Roy RR, Edgerton VR, Lecker SH, Goldberg AL. Rapid disuse and denervation atrophy involve similar transcriptional changes as muscle wasting during systemic diseases. *The FASEB Journal* 21(1): 140-155, 2007. doi: 10.1096/fj.06-6604com **IF: 7.049**

Cesari WA*, Caruso DM*, Zyka EL*, Schroff ST, Evans CH, **Hyatt JPK**. Study of physiological responses to acute carbon monoxide exposure with a human patient simulator. *Advances in Physiology Education* 30(4): 242-247, 2006. doi: 10.1152/advan.00063.2006 **IF: 1.483**

Hyatt JPK, Roy RR, Baldwin KM, Wernig A, Edgerton VR. Activity-unrelated neural control of myogenic factors in slow muscle. *Muscle and Nerve* 33(1): 49-60, 2006. doi: 10.1002/mus.20433 **IF: 2.594**

Huey KA, **Hyatt JPK**, Zhong H, Roy RR. Effects of innervation state on Hsp25 content and phosphorylation in inactive rat plantaris muscles. *Acta Physiologica Scandinavica* 185(3): 219-228, 2005. doi: 10.1111/j.1365-201X.2005.01483.x **IF: 2.455**

Hyatt JPK, Roy RR, Baldwin KM, Edgerton VR. Nerve-activity-independent regulation of muscle atrophy: role of MyoD and Myogenin in satellite cells and myonuclei. *American Journal of Physiology, Cell Physiology* 285(5): C1161-1173, 2003. doi: 10.1152/ajpcell.00128.2003 **IF: 4.23**

Vincent HK, Carlson C, **Hyatt JP**, Yihua L, Vincent KR. Alterations in bilateral force judgment following strenuous eccentric exercise. *Research Quarterly in Exercise and Sport* 71(4): 340-348, 2000. doi: 10.1080/02701367.2000.10608917 **IF: 1.214**

Hyatt JPK, Clarkson PM. Creatine kinase release and clearance using MM variants following repeated bouts of eccentric exercise. *Medicine and Science in Sport and Exercise* 30(7): 1059-1065, 1998. doi: 10.1097/00005768-199807000-00006 **IF: 3.399**

Thompson HS, **Hyatt JP**, DeSouza MJ, Clarkson PM. The effects of oral contraceptives on delayed onset muscle soreness following exercise. doi: 10.1016/S0010-7824(97)00093-0 *Contraception* 56(2): 59-66, 1997. **IF: 2.327**

Citation index: 1,544
h-index: 13
Source: Google Scholar (Dec. 2025)

Books

Hyatt JPK, Kingsbury JS. *Introduction to Anatomy and Physiology: Laboratory Manual*, 1st ed. New York, NY: McGraw Hill, 2024. ISBN: 978-1-26507-579-8

Hyatt JPK, Kingsbury J, Gozo C, Penkrot T. *Anatomy & Physiology I: Laboratory Manual*, 4th ed. Toronto, Ontario: Top Hat Monocle Corp, 2023. ISBN: 978-1-64043-632-9

Hyatt JPK, Kingsbury J, Gozo C, Penkrot T. *Anatomy & Physiology II: Laboratory Manual*, 3rd ed. Toronto, Ontario: Top Hat Monocle Corp, 2023. ISBN: 978-1-64043-633-6

Abstracts / Presentations / Conference reports

Hyatt JPK. "AI detectors used in aggregate can assist A&P instructors in distinguishing AI- vs. human-written work." Workshop #A305. Human Anatomy and Physiology Society (HAPS) Conference, Pittsburgh, PA, May 24, 2025.

Hyatt JPK, Bienenstock EJ, Woods ER*, Comus RC*, Firetto CM. Detecting AI use in lower-division A&P course work. Physiology 40: S1, 2025. doi: 10.1152/physiol.2025.40.S1.0126. American Physiological Society Summit, Baltimore, MD, Apr 24-27, 2025.

Hyatt JPK, Hagan C*, Lu EJ*, McCall GE. Increased mitochondrial-encoded protein expression coincides with MHC phenotype shift during hypertrophy of rat plantaris. Medicine & Science in Sports & Exercise 55 (9S), 220, 2023. ACSM Conference: Denver, CO, May 30 - Jun 2, 2023.

Firetto CM, Montalbano AC, Starrett E, Yan L, **Hyatt JP**, Penkrot T. A Study Strategy Module for Biology Undergraduates: Uptake and Impact. American Psychological Association Convention: Minneapolis, MN, Aug 4 - 7, 2022.

Hyatt JPK, Dimatteo L.* Early-life Exposure To Voluntary Running Wheels Does Not Impact Post-weaned Exercise Distances In Young Rats. Medicine & Science in Sports & Exercise 54 (9S), 120. ACSM Conference: San Diego, CA, May 31 - Jun 4, 2022.

Hyatt JPK, Pullman BR.* Expression profiles of protein markers regulating the mitochondrial lifecycle in skeletal muscle of acute spinal cord transected rats. The FASEB Journal, 36: https://doi.org/10.1096/fasebj.2022.36.S1.R5789. Experimental Biology Conference: Philadelphia, PA April 2-5, 2022.

Pullman BR,* **Hyatt JPK**. MOTS-c protein expression increases following aerobic exercise training and remains elevated during detraining. The FASEB Journal 36: https://doi.org/10.1096/fasebj.2022.36.S1.R5018. Experimental Biology Conference: Philadelphia, PA April 2-5, 2022.

Firetto CM, **Hyatt JPK**, Kingsbury J, Penkrot TA. Using in-class learning activities to promote integration strategy use. Presented at the annual convention of the American Psychological Association, Washington, DC August 6-8, 2020. doi: 10.17605/OSF.IO/K2DHU

Hyatt JPK, Caprio LA*, Bienenstock EJ, Kim JA, McCall GM. Introduction of a high-fat/sucrose diet modulates voluntary wheel running activity in adult female rats. *Med Sci Sport Exerc* 49(5): S330, 2017. ACSM Conference: Denver, CO May 31-Jun 4.

Kingsbury J, Penkrot T, Lisinbee C, **Hyatt JPK**. An analysis of assessment modalities in high-enrollment course sections. *The FASEB J* 31 (1 Suppl.): 576.40, 2017. Experimental Biology Conference: Chicago, IL April 22-26.

Pang M*, McCall G, Mehan R; **Hyatt JP**, Kim J. The role of MMP-9 in satellite cell activation after increased activity. *International Journal of Exercise Science*: Conference Proceedings 8(4), Article 5, 2016. Available at: http://digitalcommons.wku.edu/ijesab/vol8/iss4/5

Fitzpatrick RE*, McCall GE, Mehan RS, **Hyatt JPK**, Kim JA. The role of MMP-2, -9, and -13 in the regulation of skeletal muscle hypertrophy. *International Journal of Exercise Science*: Conference Proceedings 8(4), Article 9, 2016. Available at: http://digitalcommons.wku.edu/ijesab/vol8/iss4/9

Hyatt JPK, Brown EA*, Bienenstock EJ, McCall GM. Acute exercise stress elicits differential gene expression profiles in sedentary vs. detrained soleus muscles. *Integrative Biology of Exercise Conference* (Phoenix, AZ) Nov. 2-4, 2016. Abstract 25.1, p. 91. http://www.the-aps.org/mm/Conferences/APS-Conferences/2016-Conferences/Exercise/Official-Meeting-Program-Book.pdf

Caprio LA*, Bowden MT*, Kim JA, McCall GE, **Hyatt JPK**. Changes in dietary fat/sugar content cannot account for altered patterns in daily physical activity. Poster: Undergraduate Research Conference (Washington, DC), Apr. 14, 2016.

Brown EA*, McCall GE, **Hyatt JPK**. The effects of detraining on gene expression profiles in rat soleus skeletal muscle after acute exercise. *International Journal of Exercise Science*: Conference Proceedings 8(3): Article 12, 2015. Available at: http://digitalcommons.wku.edu/ijesab/vol8/iss3/12

Dahlberg PA*, Mehan RS, **Hyatt JPK**, McCall GE. The role of MMP-9 in mouse plantaris muscle hypertrophy. *International Journal of Exercise Science*: Conference Proceedings 8(3): Article 36, 2015. Available at: http://digitalcommons.wku.edu/ijesab/vol8/iss3/36

Huber AM*, Hall A, Pascavis A*, Chaney M*, Kocan J*, **Hyatt JPK**. Resveratrol treatment in rhesus macaques has minimal influence on skeletal muscle genotype expression and glycolytic/oxidative enzyme activity. Poster: Undergraduate Research Conference (Washington, DC), Apr. 9, 2012. (Funded by the Sigma Xi Society)

Parvaresh KC*, Brochin RL*, Huber AM*, Bacon PL*, McCall GE, **Hyatt JPK**. VEGF and HB-EGF Expression and Localization in Chronically Overloaded Rat Plantaris and Soleus Muscle. *Med Sci Sport* Exerc 42(5): S264, 2010.

Zare SM*, **Hyatt JPK** Static arch height is a poor predictor of stress fracture risk in male college athletes. Oral presentation: Undergraduate Research Conference (Washington, DC), Apr. 16, 2009.

Kander EM*, McCall GE, Zhong H, Roy RR, **Hyatt JPK**. Early time course of Pax3, Pax7, and MyoD protein content in the functionally overloaded rat plantaris muscle. *The FASEB J*, April, 2007.

Hyatt JPK, Zhong H, Banker TP*, Mikulich MR*, Roy RR. Modulation of Pax3 and Pax7 protein expression and localization in inactive skeletal muscle. *The FASEB J* 20 483.3, 2006.

Hyatt JPK, Lu Z, Capetanaki Y, Ralston E. Perturbation of subcellular organization in muscle fibers from desmin null mice. New Directions in Biology and Disease (San Diego, CA), 2004.

Park H, Bakar K, Hamzepour S, Wu J, **Hyatt JP**, Shin K-H, Pae E-K. Fiber-type changes in the genioglossus muscle induced by electrical stimulation. International Association for Dental Research (Honolulu, HI), March 2004.

Hyatt JPK, Roy RR, Baldwin KM, Edgerton VR. Modulation of muscle-specific genes and satellite cell activity via neural activity-independent influences. *Med Sci Sport Exerc*. 35(5): S241, 2003.

Sacheck JM, Ohtsuka A, Gomes M, Lecker SH, **Hyatt JPK**, Edgerton VR, Goldberg AL. Expression of muscle-specific ubiquitin-protein ligases (E3s) during muscle atrophy. *The FASEB J.* 17(4) Part II: A957, 2003.

Hyatt JPK, Roy RR, Edgerton VR. Neural activity-independent modulation of MyoD and Myogenin protein expression in adult skeletal muscle. *The FASEB J*. 16(5) Part II: A761, 2002.

Hyatt JPK, Roy RR, Edgerton VR. Role of muscle-derived stem cells during skeletal muscle regeneration and hypertrophy. *Med Sci Sport Exerc*. 33(5): S79, 2001.

Hyatt JPK, Clarkson PM. Effect of a repeated bout of exercise on creatine kinase-MM isoforms. *Med Sci Sport Exerc*. 29(5): S63, 1997.

Sacheck JM, **Hyatt JP**, Thompson HS, Clarkson PM. Dietary fat intake, caloric intake, and vitamin E consumption in female athletes. *Med. Sci. Sport Exerc.* 29(5): S125, 1997.

Thompson HS, **Hyatt JP**, Clarkson PM. Exercise-induced muscle damage in subjects with different levels of ingested estrogen. *Med. Sci. Sport Exerc*. 28(5): S114, 1996.

Carlson CJ, **Hyatt JP**, Nosaka K, Clarkson PM. The effect of fatigue on subsequent performance of strenuous isometric exercise. *Med. Sci. Sport Exerc.* 28(5): S114, 1996.

Teaching Experience

Arizona State University *(2016-pres) – 2025 Average Teaching Evaluations ~1.1 / 5 (1 = best)*

2019-pres Introduction to Human Anatomy and Physiology w/ laboratory (BIO 160) – online
2016-25 Human Anatomy and Physiology I w/laboratory (BIO 201) – on-ground
2018-23 Introduction to Human Anatomy and Physiology w/ laboratory (BIO 160) – on-ground
2018-23 Co-Director, Global Intensive Experience, Global STEM Education: Science Teaching Experience in Costa Rica
2017-18 Foundations of Human Disease (co-taught)

Georgetown University *(2004-2016) – Average Teaching Evaluations: ~4.51 / 5 (5 = best)*

2004-16 Physiological Adaptations w/ laboratory
2004-16 The Language of Health and Disease
2009-15 Research Theory and Communication in Science and Healthcare
2005-11 Exercise Physiology w/ laboratory
2007-09 The Human Machine
2004-07 Human Biology I/II laboratory
2004-05 Biotechnology laboratory
2004 Microbiology laboratory

Additional Teaching Experience

2017	Northern Arizona University	Pathophysiology (graduate), guest lecturer (2 weeks)
2008-13	Georgetown University SMP	Pathophysiology (graduate), guest lecturer (1 week)
2003	Instructor: UCLA	Introduction to Molecular Biology
2002	Instructor: UCLA	Cells, Tissues, and Organs (Intro. Physiology)
1999	Instructor: Mt. St. Mary's	Exercise Physiology (Master's Level)

ASU Dissertation Committees

2022-24	Serrano, Nate	(PI: Christos Katsanos)
2017-19	Crawford, Meli'sa	(PI: Karen Sweazea)

ASU Undergraduate Researchers

2025 Robert Comus
2024-25 Elizabeth Woods
2022-23 Emilie Lu
2020-22 Beau Pullman
2021-22 Cassandra Hagan
2020-21 Lauren Dimatteo
2018-19 Hannah Deacon

ASU Undergraduate Thesis (Barrett Honors College)

2023-24 Hasan Rizvi (1st reader)
2019-20 Stephanie Philpot (1st reader)
2019-20 Nimrit Sidhu (1st reader)
2019-20 Lauren Dwyer (1st reader)
2019-20 Dylan Fox (1st reader)
2018-19 Nimisha Tanna (1st reader)
2018-19 Tina Weng (1st reader)

Georgetown Undergraduate Researchers

2015-16 Lindsay Caprio (Human Science)
2013-15 Emily Brown (Biochemistry)
2010-12 Rob Brochin (Human Science)
2010-12 Phoebe Bacon (International Health)
2009-12 Ashley Huber (Human Science)
2008-10 Deb Perling (Human Science)
2007-09 Kevin Parvaresh (Biology)
2007-09 Robbie Hagbom (Human Science)
2007-09 Stephanie Zare (Human Science)
2006-08 Lizzie Kander (Human Science)
2005-07 Meridith Mikulich (International Health)
2004-07 Tanuj Banker (Human Science)

Invited Talks / Seminars

"Exercise, detraining, and muscle hypertrophy: preliminary findings." School of Nursing and Health Studies, Georgetown University, November 9, 2015.

"Diet and exercise: pilot work." Center for the Study of Sex Differences in Health, Aging and Disease, Georgetown University, February 20, 2015.

"Engaging in new collaborative research directions: three to four pilot ideas." Departments of Psychology and Exercise Science, University of Puget Sound, February 18, 2014.

"Research endeavors with undergraduate students." Department of Exercise Science, Linfield College, McMinnville, OR, January 14, 2014.

"Mechanical and cellular mechanisms contributing to skeletal muscle hypertrophy." Department of Exercise Science, Linfield College, McMinnville, OR, January 14, 2014.

"Opening Pathways to Success for Rural High School Students." National HRSA/HCOP/HCOE conference, Bethesda, MD, February 2, 2011.

"There is no pill for physical activity; Skeletal muscle hypertrophy" Special Master's Program in Physiology. Georgetown University, May 2010 – 2013.

"Is Skeletal Muscle an Endocrine Organ?" Departments of Biology and Exercise Science, University of Puget Sound, June 2008

"Skeletal and Muscular Physiology and Pathophysiology." Graduate Nursing, 2007-08

"So, You Think You're Buff." Georgetown Admissions Ambassador Program, 2005-06

"Research in a College Setting." Summer high school seminars, Georgetown University, 2004-2008.

Service & Professional Organizations

Member, Sigma Xi Society
Member, American Physiological Society (APS)
Member, American College of Sports Medicine (ACSM)
Member, Human Anatomy and Physiology Society (HAPS)

Reviewer (2025): *Anatomy & Physiology* (2nd ed.) by Elizabeth Co, Chapters 6-17. Cengage, Inc.

College Board Consulting for national Anatomy and Physiology Advanced Placement Curriculum

Phase II: National Advisory Panel for A&P I (Feb. 2023): joined 3 Phase I advisors to lead curricula refinement with ~25 newly selected instructors

Phase I: Design A&P I and II (Aug-Nov 2022): joined ~25 instructors from variety of universities, community colleges, and high schools in the US in curricula development

Reviewer, *iScience*
Reviewer, *PeerJ*
Review Editor, *Frontiers in Physiology Education*
Reviewer, *Applied Physiology, Nutrition, and Metabolism*
Reviewer, *Molecular Biology Reports*
Reviewer, *The Anatomical Record*

Reviewer, *American Journal of Physiology – Reg., Integ., Comp Physiol*
Reviewer, *Journal of Applied Physiology*
Reviewer, *Cells, Tissues, Organs*
Reviewer, *Acta Physiologica Scandinavica*
Reviewer, *Muscle and Nerve*
Reviewer, *The Brazilian Journal of Medical and Biological Research*
Reviewed: *The Human Body in Health and Disease* (5th ed.), by GA Thibodeau and KT Patton, 2009.
Reviewed: Essentials of Anatomy & Physiology (1st ed.), by GA Thibodeau and KT Patton

ASU Committees

2023-25 Governance Grievance Committee (University – elected Downtown campus representative)
2021-24 School of Applied Sciences and Arts Personnel and Promotion Committee (CISA)
2022-23 Search Committee, Director for School of Applied Sciences and Arts, College of Integrative Sciences and Arts (CISA)
2022 Applied Liberal Arts and Sciences (major) curriculum development (CISA)

Georgetown University Committees

2015 Chair, Executive Faculty, School of Nursing and Health Studies (SNHS)
2004-13 Undergraduate Admissions, University-wide
2010-11 General Education Working Group
2009-10 Thresholds in Writing, CNDLS
2005-11 Career Center Advisory Council
2004-11 Honor Council, University-wide
2009-10 Strategic Planning Committee, Georgetown Univ. Medical Center
2007-10 Co-Chair, Faculty Development and Welfare, SNHS
2008 Research in Health Care subcommittee, SNHS
2006-07 Situation Room Taskforce, SNHS
2005-07 Simulation/Technology Taskforce, SNHS
2005 School Naming Taskforce, SNHS
2005 Health Equity Strategic Planning Team, SNHS

Press

ASU Now. "ASU anatomy and physiology faculty turn book proceeds into student scholarships" June 12, 2019. https://asunow.asu.edu/20190523-asu-anatomy-and-physiology-faculty-turn-royalties-student-scholarships

ASU Now. "Digital cadavers bring students a deeper understanding of anatomy, physiology. February 27, 2018. https://asunow.asu.edu/20180226-discoveries-asu-anatomage-table-digital-cadaver-anatomy-study

ASU Now. "Changing the anatomy of a science education." February 27, 2018. https://campus.asu.edu/content/changing-anatomy-science-education-0

Frontiers. "Another reason for wine lovers to toast resveratrol: Resveratrol found in red wine could help counteract the negative impact of high fat/high sugar diets." ScienceDaily. ScienceDaily, May 13, 2016. <www.sciencedaily.com/releases/2016/05/160513150355.htm>

Vuona, Al. “Off the vine: Research touts health benefits of drinking wine.” The Telegram & Gazette, Worcester, MA. http://m.telegram.com/entertainmentlife/20160609/off-vine-research-touts-health-benefits-of-drinking-wine

Kirby, Tressa. “Embarking on the Pathway to Success.” Georgetown University Medical Center Website, August 11, 2010. http://gumc.georgetown.edu/news/stories/114483.html

Burgoon, Lauren. “Athletes' Feats: A Case of Conditioning or Genetics?” Blue & Gray: Georgetown University's Newsletter for Faculty and Staff, March 3, 2010. http://explore.georgetown.edu/documents/49164/?utm_source=bronto&utm_medium=email&utm_term=Athletes%27+Feats%3A+A+Case&utm_content=jkh22%40georgetown.edu&utm_campaign=Blue+%26+Gray%2C+March+3

Hambleton, Laura. “Practice Makes Perfect But Good Genes are Golden.” *The Washington Post*, February 23, 2010. http://www.washingtonpost.com/wp-dyn/content/article/2010/02/22/AR2010022203641.html?referrer=emailarticle

Office of Communications, Georgetown University Medical Center, Media Advisory: GUMC Experts Offer Commentary on Olympic-related Medical Stories, February 9, 2010. http://explore.georgetown.edu/news/?ID=48743&PageTemplateID=295

Schneider, Howard. “For Your Other 600 Muscles.” *The Washington Post*, June 12, 2007. http://www.washingtonpost.com/wp-dyn/content/article/2007/06/11/AR2007061101901.html

Dell’Amore, Christine. “Start today on a fitter you.” *United Press International*, Jan 15, 2007. http://www.upi.com/ConsumerHealthDaily/view.php?StoryID=20070115-032635-4578r