

Jason M. Organ, PhD

**Associate Professor
Department of Anatomy, Cell Biology & Physiology
Indiana University School of Medicine**

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Education

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|---|-----------|
| Johns Hopkins Kennedy Krieger Institute, Baltimore, MD Postdoctoral Research Fellowship, Physical Medicine & Rehabilitation (RZ German) | 2007-2008 |
| Johns Hopkins University School of Medicine, Baltimore, MD PhD, Functional Anatomy & Evolution (MF Teaford & CB Ruff) | 2002-2007 |
| University of Missouri, Columbia, MO MA, Anthropology | 1999-2002 |
| University of Missouri, Columbia, MO BA, Anthropology | 1995-1999 |

Academic Appointments

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| Associate Professor (with tenure) Department of Anatomy, Cell Biology & Physiology, Indiana University School of Medicine (IUSM) | 2020-present |
| Director, Clinical Anatomy & Physiology MS Degree Program Department of Anatomy, Cell Biology & Physiology, IUSM | 2018-present |
| Graduate Faculty Indiana University School of Medicine | 2018-present |
| Adjunct Assistant/Associate Professor Department of Communication Studies, Indiana University – Purdue University Indianapolis (IUPUI) | 2017-present |
| Adjunct Assistant/Associate Professor Department of Anthropology, IUPUI | 2017-present |
| Adjunct Assistant/Associate Professor Department of Biomedical Engineering, IUPUI | 2016-present |
| Assistant Professor (tenure track) Department of Anatomy, Cell Biology & Physiology, IUSM | 2012-2020 |
| Assistant Professor of Anatomy (non-tenure track) Department of Surgery, Saint Louis University School of Medicine | 2008-2012 |

Other Appointments and Professional Consultantships

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| External Advisory Board Member Biomedical Visualization Certificate Program, University of British Columbia | 2020-present |
| Associate Editor for Social Media <i>Anatomical Sciences Education</i> journal | 2020-present |

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| Co-Curator, Online Teaching Resources Community—AnatomyConnected American Association for Anatomy | 2020-present |
| Organizer and Trainer, Science Communication Boot Camp American Association for Anatomy | 2019-present |
| Co-Editor and Writer Public Library of Science (PLOS) Science Communication Blog (scicomm.plos.org) | 2017-present |
| Director and Educator, IUSM Dept of Anatomy, Cell Biology & Physiology Exhibit Celebrate Science Indiana (Indiana's premier annual science festival) | 2017-present |
| Editorial Board Member <i>Anatomical Record</i> journal | 2012-present |
| Elected Member, Board of Directors American Association for Anatomy (AAA) | 2016-2019 |
| Research Collaborator Division of Mammals, Smithsonian National Museum of Natural History, Washington, DC | 2010-2013 |

Honors and Awards

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| Induction into Faculty Academy for Excellence in Teaching (FACET), Indiana University | 2021 |
| Trustees' Teaching Award, IUSM | 2021 |
| Seifert Anatomical Sciences Statewide Outstanding Educator Award, IUSM | 2019 |
| Basmajian Award for Excellence in Education & Research, AAA | 2018 |
| Prestigious External Award Recognition (PEAR Award) recipient, IUPUI | 2018 |
| Trustees' Teaching Award, IUSM | 2018 |
| Short-Term Visiting Scholarship, AAA | 2013 |
| Keith & Marion Moore Early Career Anatomist Publication Award, AAA | 2011 |
| Early Career Faculty Travel Award, AAA | 2011 |
| National Institutes of Health (NIH) Loan Repayment Program Recipient | 2008-2010 |
| NIH Ruth Kirschstein National Research Service Award Postdoctoral Fellowship | 2007-2008 |
| Student Travel Award, AAA | 2006 |
| Mildred Trotter Prize, American Association of Physical Anthropologists | 2006 |

Grants

Active Grants:

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| American Association for Anatomy <i>Innovations Program – AAA Science Communication Bootcamp</i> (\$50,000; J Organ, Principal Investigator [PI]; K Hoffmann-Longtin, Co-PI) | 2018-2021 |
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Completed Grants:

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| Anatomical Society <i>Public Engagement and Outreach Grant: Anatomical Models for Use at Annual Celebrate Science Indiana Exhibit in Anatomy, Cell Biology & Physiology</i> (£264; J Organ, PI) – returned due to COVID | 2020 |
| IUPUI Center for Teaching and Learning <i>Flipping classrooms in graduate anatomical sciences courses</i> (\$9,670; J Organ, PI; A Deane, Co-PI) | 2019-2020 |
| IU Consortium for the Study of Religion, Ethics, and Society <i>Reflecting on 75 years since the liberation of Auschwitz: the lasting impact of the Nazi regime on medical research</i> (\$6,000; A Comer, J Organ, Co-PIs) | 2019-2020 |
| IU Consortium for the Study of Religion, Ethics, and Society | 2019-2020 |

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| <i>A Faith Leader and a Scientist Walk into a Bar: Building Productive Conversations about Faith and Science</i> (\$6,000; K Hoffmann-Longtin, J Organ, M Wininger, K Ridley-Merriweather, Co-PIs) | |
| Indiana Center for Musculoskeletal Health <i>Pannexin 1 in bone and muscle crosstalk</i> (\$50,000; L Plotkin, A Bruzzaniti, T Zimmers, J Organ, Co-PIs) | 2017-2018 |
| National Institutes of Health <i>Muscle progenitor cell-based implants for dynamic laryngeal muscle reconstruction</i> (R01DC014070; \$244,121 subcontract; S Halum, PI; J Organ, Co-I) | 2015-2017 |
| Indiana University Collaborative Research Grants <i>Modulating the cellular and structural mechanisms underlying craniofacial development in Osteogenesis Imperfecta</i> (\$72,500; J Organ, PI; R Menegaz, Co-PI) | 2016-2017 |
| IUPUI Center for Teaching and Learning <i>Curriculum enhancement grant: graduate minor in communicating science</i> (\$30,000; K Hoffmann-Longtin, M Wininger, J Organ, Co-PIs) | 2016-2017 |
| Ralph W. and Grace M. Showalter Research Trust Fund <i>Enhancing skeletal mechanical properties in Osteogenesis Imperfecta</i> (\$60,000; J Organ, PI) | 2015-2016 |
| National Skeletal Muscle Research Center <i>Hindlimb muscle function and quality in a rat model of progressive kidney disease</i> (\$25,000; J Organ, PI) | 2014-2015 |
| National Institutes of Health <i>Enhancing bone strength using combination drug therapy</i> (R01AR062002; \$2,287,110; M Allen, PI; J Organ, Co-I) | 2012-2014 |
| IUPUI Biomechanics and Biomaterials Research Center <i>Biomechanical effects of low-intensity, multi-directional loading on bone and muscle growth</i> (\$10,000; J Organ, PI; J Wallace, Co-PI) | 2014 |
| Saint Louis University President's Research Fund <i>Dental and skeletal analysis of archaeological remains in the medieval British Isles</i> (\$25,000; J Organ, PI; T Finan, Co-PI) | 2010-2011 |
| National Science Foundation <i>Doctoral dissertation improvement: the functional anatomy of prehensile and nonprehensile tails: internal architecture of caudal vertebrae and musculature</i> (\$11,992; M Teaford, Faculty PI; J Organ, Student, Co-PI) | 2006-2007 |

Professional Societies

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| Anatomical Society | 2018-present |
| American Association for the Advancement of Science | 2016-present |
| Society for Integrative and Comparative Biology | 2011-present |
| Sigma Xi Research Society | 2005-present |
| American Association for Anatomy | 2004-present |
| American Association of Physical Anthropologists | 2000-present |
| American Society of Biomechanics | 2014-2015 |
| American Society for Bone and Mineral Research | 2013-2015 |
| American Association of Clinical Anatomists | 2009-2011 |

Refereed Publications

Functional & Evolutionary Anatomy Research

Journal Articles in Functional & Evolutionary Anatomy:

1. Rupert JE, Joll JE, Elkhatib W, **Organ JM**. 2018. Mouse hind limb skeletal muscle functional adaptation in a simulated fine branch arboreal habitat. *Anat Rec* 301:434-440.

2. Patel BA, **Organ JM**, Jashashvili T, Bui SH, Dunsworth HM. 2018. Ontogeny of hallucal metatarsal rigidity and shape in the rhesus monkey (*Macaca mulatta*) and chimpanzee (*Pan troglodytes*). *J Anat* 232:39-53.
3. Rupert JE, Rose JA, **Organ JM**, Butcher MT. 2015. Forelimb muscle architecture and myosin isoform composition in the groundhog (*Marmota monax*). *J Exp Bio* 218:194-205. PMID: 25452499.
4. Deane AS, Russo GA, Muchlinski MN, **Organ JM**. 2014. Caudal vertebral body articular surface morphology correlates with functional tail use in anthropoid primates. *J Morphol* 275:1300-1311. PMID: 24916635. <http://hdl.handle.net/1805/4533>.
5. Patel BA, Ruff CB, Simons ELR, **Organ JM**. 2013. Humeral cross-sectional shape in suspensory primates and sloths. *Anat Rec* 296:545-556. PMID: 23408647.
6. **Organ JM**, Lemelin P. 2011. Tail architecture and function of *Cebupithecia sarmientoi*, a Middle Miocene platyrrhine from La Venta, Colombia. *Anat Rec* 294:2013-2023. PMID: 22042718.
7. **Organ JM**, Muchlinski MN, Deane AS. 2011. Mechanoreceptivity of prehensile tail skin varies between ateline and cebine primates. *Anat Rec* 294:2064-2072. PMID: 22042733.
8. **Organ JM**. 2010. Structure and function of platyrrhine caudal vertebrae. *Anat Rec* 293:730-745. PMID: 20235328.
9. **Organ JM**, DeLeon VB, Wang Q, Smith TD. 2010. From head to tail: new models and approaches in primate functional anatomy and biomechanics. *Anat Rec* 293:544-548. PMID: 20235310.
10. Sylvester AD, **Organ JM**. 2010. Curvature scaling in the medial tibial condyle of large bodied hominoids. *Anat Rec* 293:671-679. PMID: 20235323.
11. **Organ JM**, Teaford MF, Taylor AB. 2009. Functional correlates of fiber architecture of the lateral caudal musculature in prehensile and nonprehensile tails of the Platyrrhini (Primates) and Procyonidae (Carnivora). *Anat Rec* 292:827-841. PMID: 19402068
12. **Organ JM**, Ward CV. 2006. Contours of the hominoid lateral tibial condyle with implications for *Australopithecus*. *J Hum Evol* 51:113-127. PMID: 16563467.
13. **Organ JM**, Ruff CB, Teaford MF, Nisbett RA. 2006. Do mandibular cross-sectional properties and dental microwear give similar dietary signals? *Am J Phys Anthropol* 130:501-507. PMID: 16425187.
14. **Organ JM**, Teaford MF, Larsen CS. 2005. Dietary inferences from dental occlusal microwear at Mission San Luis de Apalachee. *Am J Phys Anthropol* 128:801-811. PMID: 16134151.

Invited Book Chapters in Functional & Evolutionary Anatomy:

15. Burr DB, **Organ JM**. 2017. Postcranial skeletal development and its evolutionary implications. In: CJ Percival and JT Richtsmeier, eds. *Building Bones: Studies of Bone Growth in Anthropology*. Cambridge: Cambridge University Press, pp 178-174.
16. **Organ JM**. Tail anatomy. In: A Fuentes, editor. *The International Encyclopedia of Primatology*. New York: Wiley-Blackwell, pp 1-2.
17. **Organ JM**. Dermatoglyphics. In: A Fuentes, editor. *The International Encyclopedia of Primatology*. New York: Wiley-Blackwell, pp 1-3.
18. Burrows AM, **Organ JM**. 2017. Prosimian locomotion. In: J Vonk, T Shackelford, editors. *Encyclopedia of Animal Cognition and Behavior*. New York: Springer, pp 1-9.

Biomedical Musculoskeletal Biomechanics Research

Journal Articles in Biomedical Musculoskeletal Biomechanics:

1. Menegaz RA, Ladd SH, **Organ JM**. 2020. Craniofacial allometry in the OIM^{-/-} mouse model of osteogenesis imperfecta. *The FASEB Journal* 34: 10850-10859. PMID: 32592291

2. Berman AG, **Organ JM**, Allen MR, Wallace JM. 2020. Muscular contraction induces osteogenic levels of cortical bone strain despite muscle weakness in a mouse model of Osteogenesis Imperfecta. *Bone* 132:115061. <https://doi.org/10.1016/j.bone.2019.115061>. PMID: 31805389
3. **Organ JM**, Allen MR, Myers-White A, Elkhatib W, O'Neill KD, Chen NX, Moe SM, Avin KG. 2018. Effects of treadmill running in a rat model of chronic kidney disease. *Biochem Biophys Res Commun* 16:19-23. PMID: PMC6140622
4. Allen MR, McNerny E, Aref M, **Organ JM**, Newman CL, McGowan B, Jang T, Burr DB, Brown DM, Hammond M, Territo PR, Lin C, Persohn S, Jiang L, Riley AA, McCarthy BP, Hutchins GD, Wallace JM. 2017. Effects of combination treatment with Alendronate and Raloxifene on skeletal properties in a beagle dog model. *PLoS ONE* 12(8): e0181750. PMID: PMC5549927
5. Sato AY, Richardson D, Cregor M, Davis HM, Au ED, McAndrews K, Zimmers TA, **Organ JM**, Peacock M, Plotkin LI, Bellido T. 2017. Glucocorticoids induce bone and muscle atrophy by tissue-specific mechanisms upstream of E3 ubiquitin ligases. *Endocrinology* 58:664-677. PMID: 28359087
6. Baum R, Sharma S, **Organ JM**, Jakobs C, Hornung V, Burr DB, Marshak-Rothstein A, Fitzgerald KA, Gravellese EM. 2016. STING regulates abnormal bone formation induced by deficiency of DNase II. *Arthritis Rheumatol* 69:460-471. PMID: PMC527460
7. McNerny E, **Organ JM**, Wallace JM, Newman CL, Brown DM, Allen MR. 2016. Assessing the inter- and intra-animal variability of *in vivo* OsteoProbe skeletal measures in untreated dogs. *Bone Rep* 5:192-198. PMID: PMC5003524
8. Avin KG, Chen NX, **Organ JM**, Zarse Z, O'Neill K, Conway RG, Konrad RJ, Bacallao RL, Allen MR, Moe SM. 2016. Skeletal muscle regeneration and oxidative stress are altered in Chronic Kidney Disease. *PLoS ONE* 11(8):e0159411. PMID: PMC497244.
9. Kregge JB, Aref MW, McNerny E, Wallace JM, **Organ JM**, Allen MR. 2016. Reference point indentation is insufficient for detecting alterations in traditional mechanical properties of bone under common experimental conditions. *Bone* 87:97-101. PMID: PMC4862890
10. **Organ JM**, Srisuwananukorn A, Price P, Joll JE, Biro KC, Rupert JE, Chen NX, Avin KG, Moe SM, Allen MR. 2016. Reduced skeletal muscle function is associated with decreased fiber cross-sectional area in the Cy/+ rat model of progressive kidney disease. *Nephrol Dial Transplant* 31:223-230. PMID: PMC472539
11. Srisuwananukorn A, Allen MR, Brown DM, Wallace JM, **Organ JM**. 2015. *In vivo* reference point indentation measurement variability in skeletally mature inbred mice. *BoneKey Reports* 4(712):1-5. PMID: PMC4478874
12. Allen MR, McNerny EMB, **Organ JM**, Wallace JM. 2015. True gold or pyrite: a review of reference point indentation for assessing bone mechanical properties *in vivo*. *J Bone Miner Res* 30:1539-1550. PMID: PMC4825864
13. Allen MR, McNerny EMB, **Organ JM**, Wallace JM. 2015. Reply to letter to the editor: true gold or pyrite: a review of reference point indentation for assessing bone mechanical properties *in vivo*. *J Bone Miner Res* 30:2327. PMID: 26332616
14. Lee DY, Wetzsteon RJ, Zemel BS, Shults J, **Organ JM**, Foster BJ, Herskovitz RM, Foerster DL, Leonard MB. 2015. Muscle torque relative to cross-sectional area and the functional muscle-bone unit in children and adolescents with chronic disease. *J Bone Miner Res* 30:575-583. PMID: PMC4532328.
15. Moe SM, Chen NX, Newman CL, **Organ JM**, Kneissel M, Kramer I, Gattone II VH, Allen MR. 2015. Anti-sclerostin antibody treatment in a rat model of progressive renal osteodystrophy. *J Bone Miner Res* 30:499-509. PMID: PMC4333005. <http://hdl.handle.net/1805/5544>.
16. Allen MR, Newman CL, Smith E, Brown DM, **Organ JM**. 2014. Variability of *in vivo* reference point indentation in skeletally mature inbred rats. *J Biomech* 47:2504-2507. PMID: PMC4096655. <http://hdl.handle.net/1805/4299>.

17. Moe SM, Chen NX, Newman CL, Gattone II VH, **Organ JM**, Chen X, Allen MR. 2014. A comparison of calcium to zoledronic acid for improvement of cortical bone in an animal model of CKD. *J Bone Miner Res* 29:902-910. PMID: PMC3940692. <http://hdl.handle.net/1805/3644>.
18. Aref M, Gallant MA, **Organ JM**, Wallace JM, Newman CL, Burr DB, Brown DM, Allen MR. 2013. *In vivo* reference point indentation reveals positive effects of raloxifene on mechanical properties following 6 months of treatment in skeletally mature beagle dogs. *Bone* 56:449-453. PMID: PMC3873633. <http://hdl.handle.net/1805/3375>.
19. Gallant MA, Brown DB, **Organ JM**, Allen MR, Burr DB. 2013. Reference-point indentation correlates with bone toughness assessed using whole-bone traditional mechanical testing. *Bone* 53:301-305. PMID: PMC3563255. <http://hdl.handle.net/1805/4624>.

Invited Reviews in Biomedical Musculoskeletal Biomechanics:

20. Allen MR, McNerny EMB, **Organ JM**, Wallace JM. 2015. True gold or pyrite: a review of reference point indentation for assessing bone mechanical properties *in vivo*. *J Bone Miner Res* 30:1539-1550. PMID: PMC4825864

Letters/Commentaries in Biomedical Musculoskeletal Biomechanics:

21. Allen MR, McNerny EMB, **Organ JM**, Wallace JM. 2015. Reply to letter to the editor: true gold or pyrite a review of reference point indentation for assessing bone mechanical properties *in vivo*. *J Bone Miner Res* 30:2327. PMID: 26332616

Educational Scholarship

Journal Articles in Scholarship of Teaching and Learning:

1. Byram J, **Organ JM**, Yard M, Schmalz N. 2019. Investigating student perceptions of a dissection-based undergraduate gross anatomy course using Q methodology. *Anat Sci Educ* 13:149-157. PMID: 31025550. doi:10.1002/ase.1887.
2. Hoffmann-Longtin K, **Organ JM**, Helphenstine JV, Reinoso DR, Morgan ZS, Weinstein E. 2018. Teaching advocacy communication to pediatric residents: the efficacy of applied improvisation as a training tool. *Commun Educ* 67:438-459.

Invited Electronic Textbook Chapters:

3. **Organ JM**, Byram J. 2019. [Appendix A: Osteology](#). In: Shook B, Aguilera K, Nelson K, Braff L, editors. [Explorations: An Open Invitation to Biological Anthropology](#). Arlington, VA: American Anthropological Association, pp 1-48.
4. **Organ JM**. 2017. [Amirsys Anatomy Reference Center](#), Elsevier: Salt Lake City, UT. Author of **21 peer-reviewed gross anatomy learning modules for clinicians**: *Ankle and Foot; Anterior Compartment of Leg; Anterior Compartment of Thigh and Femoral Triangle; Arteries: Lower Limb; Deep Back Muscles; Foot Muscles; Gait; Hip Joint; Hip Muscles; Knee Joint and Popliteal Fossa; Lateral Compartment of Leg; Leg Muscles; Medial Compartment of Thigh; Posterior Compartment of Leg and Tarsal Tunnel; Posterior Compartment of Thigh; Spinal Nerve Anatomy; Superficial Back Muscles; Superficial Structures of Lower Limb; Thigh Muscles; Veins: Lower Limb; Vertebral Column*.
5. Morton D, Frankel P, Hoagland T, Nielsen M, **Organ J**, Pratt R, Tomco R, Wisco J, Zollinger J, Zumwalt A. 2012-2017. *AnatomyOne* (anatomyone.com), Amirsys/Elsevier: Salt Lake City, UT. Author of **23 peer-reviewed gross anatomy e-learning modules for medical, professional, graduate, and undergraduate students and 100+ National Board of Medical Examiners-style review questions**: *Anterior Compartment of Leg; Anterior Compartment of Thigh and Femoral Triangle; Arteries: Lower Limb; Deep Back Muscles; Foot; Foot Muscles; Gait; Hip Joint; Hip Muscles; Knee Joint and Popliteal Fossa; Lateral Compartment of Leg; Leg Muscles; Lower Limb; Lower Limb Muscles; Medial Compartment of Thigh; Posterior Compartment of Leg and Tarsal Tunnel; Posterior Compartment of Thigh; Spinal Nerve Anatomy; Superficial Back Muscles; Superficial Structures of Lower Limb; Thigh Muscles; Veins: Lower Limb; Vertebral Column*. In 2017, Elsevier closed anatomyone.com and repackaged it as *Amirsys Anatomy Reference Center* (above).

Anatomy Book Reviews:

1. **Organ JM.** 2016. Book Review, Primate Comparative Anatomy. *Am J Phys Anthropol* 160:361-362.
2. **Organ JM.** 2010. Book Review, Andreas Vesalius: The Making, The Madman, and The Myth. *JAMA* 304:215-216.
3. **Organ JM.** 2009. Book Review, Lippincott Williams & Wilkins Atlas of Anatomy. *JAMA* 301:1828-1829.
4. **Organ JM.** 2008. Book Review, Thieme Atlas of Anatomy: General Anatomy and Musculoskeletal System, and Thieme Atlas of Anatomy: Neck and Internal Organs. *JAMA* 299:224-225.

Manuscripts in Progress

1. In press (August 2020). Deane AS, Muchlinski MN, **Organ JM.** A muscular perspective on primate and human evolution: locomotor insights from muscle macrostructure, microstructure architectures. In: K Pitirri and JT Richtsmeier, eds. *Cell Processes in the Evolution of Primate Characteristics*. CRC Press. Scheduled for publication in 2021.
2. In review (July 2020). Sanders KA, Philp JC, Jordon CY, Cale AS, Cunningham CL, **Organ JM.** Anatomy Nights: an international public engagement event increases audience knowledge of brain anatomy. Submitted to *Science Communication* on 7/30/20.

Classroom/Laboratory Teaching Experience (*course director)

Medical Courses

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| Advanced Regional Gross Anatomy for 4 th Year Medical Students, IUSM (team taught) | 2017-present |
| Human Structure/Medical Human Anatomy, IUSM (team taught) | 2012-present |
| Phase I Medical Human Anatomy Module (team taught), Saint Louis University (SLU) | 2008-2012 |
| Phase I Molecular Biology & Genetics Tutorial (small group problem-based learning), SLU | 2012 |
| Phase II Skin, Bone and Joint Module (team taught), SLU | 2012 |
| Medical Human Anatomy, Johns Hopkins University School of Medicine (team taught) | 2003-2007 |

Graduate Courses

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| History of Anatomy, IUPUI and IU Bloomington (team taught) | 2021-present |
| *Distilling Your Message: Science Policy Edition, IUPUI | 2020-present |
| *Functional Human Anatomy for Graduate Students, IUSM | 2018-present |
| Gross Anatomy for Physician Assistant Students, IUSM (team taught) | 2013-2019 |
| Gross Anatomy for Doctor of Physical Therapy Students, IUSM (team taught) | 2012-2019 |
| *Improvisation for Scientists: Communicating Science, IUPUI | 2017-2019 |
| Graduate Research Communications, IUSM (team taught) | 2017-2018 |
| Gross Anatomy for Physical/Occupational Therapy & Physician Asst Students (team taught) | 2018 |
| *Distilling Your Message: Communicating Science (team taught), IUPUI | 2017 |
| Science Writing for Public Readers (team taught), IUPUI | 2017 |

Undergraduate Courses

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| *Undergraduate Cadaveric Human Anatomy, IUSM (course director & instructor) | 2018-present |
| *Gross Anatomy for Allied Health Professionals (team taught), Saint Louis University (SLU) | 2008-2012 |
| *Basic Human Systemic Anatomy, SLU | 2011-2012 |
| Summer Institute in Anatomy, Johns Hopkins University School of Medicine (team taught) | 2003-2004 |
| Gross Human Anatomy, University of Missouri (team taught) | 2001-2002 |
| General Genetics, University of Missouri (laboratory instructor) | 2002 |
| General Biology Laboratory for Non-Majors (laboratory instructor), University of Missouri | 2001 |

Mentoring

Faculty mentoring committees:

Jose Mas, DVM Asst Prof of Clinical Anatomy, IU-Northwest, committee chair 2018-present

Graduate Academic Advising:

Jiajun Li IUSM Indiana Biomedical Gateway PhD advisory committee 2020-present
Lewis Paton Univ of York (UK) Skill & Professional Development committee 2020-present
Emily Atkinson IUSM Indiana Biomedical Gateway PhD advisory committee 2020-present
Andrew Cale IUSM Anatomy Education PhD advisory committee 2020-present
Kyle Robertson IUSM Anatomy Education PhD advisory committee 2019-present
Ellen Balensiefer IUSM Clinical Anatomy & Physiology MS, academic advisor 2020-2021
Cody Hostetler IUSM Clinical Anatomy & Physiology MS, academic advisor 2020-2021
Maheen Khan IUSM Clinical Anatomy & Physiology MS, academic advisor 2020-2021
Megan Kruskie IUSM Clinical Anatomy & Physiology MS, academic advisor 2020-2021
E'Starla McFerrin IUSM Clinical Anatomy & Physiology MS, academic advisor 2020-2021
Kalissa Remund IUSM Clinical Anatomy & Physiology MS, academic advisor 2020-2021
Sonali Thakur IUSM Clinical Anatomy & Physiology MS, academic advisor 2020-2021
Samuel Garrison IUSM Clinical Anatomy MS, academic advisor 2019-2020
Alexis Higgins IUSM Clinical Anatomy MS, academic advisor 2019-2020
Naomi Schmalz IUSM Anatomy Education PhD qualifying exam committee 2019
Clay Schnell IUSM Clinical Anatomy MS, academic advisor 2018-2019
Katelyn Pickerell IUSM Clinical Anatomy MS, academic advisor 2018-2019
Joanna Loniewska IUSM Clinical Anatomy MS, academic advisor 2018-2019
Humza Syed IUSM Clinical Anatomy MS, academic advisor 2018-2019
Brielle Warnock IUSM Clinical Anatomy MS, academic advisor 2018-2019
Rebecca Wisner IUSM Clinical Anatomy MS, academic advisor 2018-2019
Nicholas Edwards IUSM Clinical Anatomy MS, academic advisor 2018-2019
Courtney Mitchell IUSM Clinical Anatomy MS, academic advisor 2018-2019
Breena Miller IUSM Clinical Anatomy MS, academic advisor 2018
Samantha Houston IUSM Clinical Anatomy MS, academic advisor 2018

Thesis committees:

Emily Atkinson IUSM Indiana Biomedical Gateway PhD, committee member 2020-present
Naomi Schmalz IUSM Anatomy Education PhD, committee member 2017-present
Mohammad Aref IUSM MD/PhD research committee member 2016-present
Naomi Schmalz Saint Louis University School of Medicine, MS advisor 2010-2012
Colleen Steinkoenig Saint Louis University School of Medicine, MS co-advisor 2008-2010
Allyson Johnston Saint Louis University School of Medicine, MS advisor 2008-2011
Mark Humphrey Saint Louis University School of Medicine, MS advisor 2008-2010

Science communication internships:

Jessica Rech Life-Health Sciences Internship for IUPUI undergraduates 2020-2021
Kesha Bhatt Life-Health Sciences Internship for IUPUI undergraduates 2019-2020
Tasnim Elmamoun Life-Health Sciences Internship for IUPUI undergraduates 2017-2018

Laboratory research rotations:

Isabel Weber Indianapolis Project STEM for high school students 2018
Breena Miller IUSM Clinical Anatomy MS student 2018
Samantha Houston IUSM Clinical Anatomy MS student 2018

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| Karolina Perschbacher | IUPUI undergraduate anatomy student | 2018 |
| Arielle Payne | IUPUI undergraduate biology student | 2018 |
| Wiaam Elkhatib | Med Student Summer Research Program in Academic Medicine | 2017 |
| Mary Kozlowski | Cardinal Ritter High School Biomedical Science Internship | 2017 |
| Jared Emenhiser | Life-Health Sciences Internship for IUPUI undergraduates | 2016-2017 |
| Morgan McLuckey ¹ | Med Student Summer Research Program in Academic Medicine | 2016 |
| Lexy Chavez | Indianapolis Project SEED program for high school students | 2015-2016 |
| Gregory Monnin | Life-Health Sciences Internship for IUPUI undergraduates | 2015-2016 |
| Andrew Guitierrez | Indianapolis Project STEM program for high school students | 2015 |
| Adam Myers-White ¹ | Med Student Summer Research Program in Academic Medicine | 2015 |
| Cayli Meizel-Lambert | IUSM Indiana Biomedical Gateway graduate program | 2015 |
| Joseph Rupert | IUSM Indiana Biomedical Gateway graduate program | 2014 |
| Benjamin Vickery | Life-Health Sciences Internship for IUPUI undergraduates | 2014-2015 |
| Wiaam Elkhatib | Life-Health Sciences Internship for IUPUI undergraduates | 2014-2015 |
| Paige Price | Indianapolis Project SEED program for high school students | 2014 |
| Andrew Srisuwananukorn ² | Med Student Summer Research Program in Academic Medicine | 2014 |
| Jeremy Mihajlovich | Life-Health Sciences Internship for IUPUI undergraduates | 2013-2014 |
| Jeffery Joll ³ | Life-Health Sciences Internship for IUPUI undergraduates | 2013-2014 |
| Chetna Sethi | Saint Louis University Forensics program for undergraduates | 2010-2012 |

¹Funded through the Comprehensive Musculoskeletal Training Program at IUSM (NIH T32AR065971; D Burr, A Robling, Co-PIs)

²Andrew was awarded 3rd Prize in the Medical Student Summer Research Program in Academic Medicine Oral Presentation Competition.

³Jeffery was awarded an IUPUI Undergraduate Research Opportunity Program (UROP) grant in April 2014, "Effects of multidirectional, off-axis loading exercises on musculoskeletal biomechanical properties". This small grant supported his travel to EB2015 to present the results of this project in a poster presentation.

Invited Presentations

Invited Research Presentations:

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| 19 th Congress of the International Federation of Associations of Anatomists, London, UK | 2019 |
| Anatomical Society Winter Meeting, Lancaster, UK | 2019 |
| University of Tennessee, Knoxville, Department of Anthropology – Special Topics in Anatomy | 2016 |
| Indiana University – Purdue University Indianapolis, Department of Biomedical Engineering | 2015 |
| Indiana University – Purdue University Indianapolis, Department of Biology | 2015 |
| Indiana University School of Medicine, Laboratory Animal Resource Center | 2015 |
| Indiana University School of Medicine, Department of Surgery | 2014 |
| American Association of Physical Anthropologists, Invited Symposium | 2014 |
| University of Tennessee, Knoxville, Department of Anthropology – Special Topics in Anatomy | 2014 |
| Indiana University School of Medicine Statewide Anatomy Retreat | 2013 |
| University of Kentucky College of Medicine, Department of Anatomy and Neurobiology | 2013 |
| Washington University in St. Louis, Department of Anthropology | 2012 |
| University of Tennessee, Knoxville, Department of Anthropology – Special Topics in Anatomy | 2012 |
| Midwestern University, Chicago College of Osteopathic Medicine, Department of Anatomy | 2011 |
| Indiana University School of Medicine, Department of Anatomy and Cell Biology | 2011 |
| Ohio State University College of Medicine, Division of Anatomy | 2010 |
| Washington University School of Medicine | 2010 |
| Saint Louis University, Department of Biology | 2010 |

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| Washington University School of Medicine, Program in Physical Therapy | 2010 |
| American Association for Anatomy, Invited Symposium at Annual Meeting | 2010 |
| University of Tennessee, Knoxville, Department of Anthropology – Special Topics in Anatomy | 2010 |
| Southern Illinois University School of Dental Medicine, Dept of Development, Growth & Structure | 2009 |
| Kennedy Krieger Research Institute, Research in Brain Injury Group | 2008 |
| Saint Louis University School of Medicine, Center for Anatomical Science & Education | 2008 |
| University of Minnesota-Twin Cities, Department of Anthropology | 2007 |
| American Association for Anatomy, Invited Symposium at Annual Meeting | 2006 |

Invited Science Communication Workshops:

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| Lifespan Institute, University of Kansas, Lawrence, KS | 2020 |
| IU Consortium for the Study of Religion, Ethics & Society (4 sessions), Indianapolis, IN | 2019-2020 |
| Anatomical Society Winter Meeting, Lancaster, UK | 2019 |
| Hull York Medical School, Heslington, York, UK | 2019 |
| LifeOmics, Life Apps Bloggers Conference, Indianapolis, IN | 2019 |
| Office of Vice Chancellor for Research, Mississippi State University, Starkville, MS | 2019 |
| American Association for Anatomy Science Communication Boot Camp | 2019 |
| Stowers Institute & University of Kansas School of Medicine, Kansas City | 2019 |
| Marian University College of Osteopathic Medicine, Biomedical Masters Program | 2019 |
| American Fisheries Society, Indiana Chapter | 2019 |
| Society of Clinical Research Associates – Indianapolis Chapter | 2018 |
| Indiana University School of Medicine, CAREERX Postdoctoral Professional Development Series | 2018 |
| Marian University College of Osteopathic Medicine, Biomedical Masters Program | 2018 |
| Indiana Physiological Society, Invited Workshop, Taylor University | 2018 |
| University of Tennessee, Knoxville, Department of Anthropology – Special Topics in Anatomy | 2018 |
| Indiana University – Purdue University Indianapolis, Graduate School | 2017 |
| Women’s Global Health Institute/Nutrition Science Corporate Affiliates, Purdue University | 2017 |
| Indiana University School of Medicine, Department of Anatomy and Cell Biology Education Series | 2017 |
| American Association for Anatomy, Invited Workshop | 2017 |
| Indiana State Museum, Indianapolis | 2017 |
| Louisiana State University Health Sciences Center | 2017 |
| Pint of Science – Indianapolis, Central Indiana Science Outreach | 2017 |

Invited Science Outreach Presentations:

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| GenCon Online (COVID-19), Science of Science Fiction Panel, organized by Indiana Sciences | 2020 |
| Allisonville Elementary, Indianapolis, IN, 5 th Grade, Skype a Scientist | 2020 |
| Leonardo da Vinci the Anatomist, Memorial Colloquium, Chateau d’Amboise, Amboise, France | 2019 |
| GenCon, Science of Science Fiction Panel, organized by Indiana Sciences | 2019 |
| Allisonville Elementary, Indianapolis, IN, 5 th Grade, Skype a Scientist | 2019 |
| The Da Vinci Pursuit, Indianapolis, IN | 2019 |
| GenCon, Science of Science Fiction Panel, organized by Indiana Sciences | 2018 |
| Indy PopCon, Scientist AMA (Ask Me Anything), organized by Indiana Sciences | 2018 |
| John Shaw Billings History of Medicine Society, Indiana University School of Medicine | 2018 |
| Allisonville Elementary, Indianapolis, IN, 5 th Grade, Skype a Scientist | 2018 |
| Indiana State Museum, March for Science Indianapolis, Day for Science | 2018 |
| Center for Inquiry, Indianapolis | 2017 |
| Towne Meadow Elementary, Carmel, IN, 4 th Grade | 2017 |
| Indiana Humanities Council/March for Science-Indianapolis/Central Indiana Science Outreach | 2017 |

Science Communication and Outreach

Print & Electronic Media

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| <u>Science Has a Communication Problem</u> , IFAA PLEXUS | 2019 |
| <u>Featured Alumnus of Alan Alda Center for Communicating Science</u> | 2018 |
| <u>Giz Asks: Why Do We Have Butts?</u> Gizmodo.com | 2018 |
| <u>Interviewed about science communication</u> , Australian Prevention Partnership Centre | 2017 |
| <u>Featured Expert at Books, Brains & Booze</u> , Indiana Humanities & Indiana Sciences, Inc | 2017 |
| <u>Science has a Communication Problem – Together We Can Solve It</u> , Anatomy Now | 2017 |

TV, Radio & Podcast Appearances

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| <u>Science of Science Fiction Panel, GenCon Online</u> , Indiana Sciences, Inc | 2020 |
| <u>Science Night, Episode 5: Science of Science Fiction from GenCon Online</u> | 2020 |
| <u>Science Night, Episode 3: Jason Organ</u> , Hosted by James Reed, Dartmouth College | 2020 |
| <u>Anatomy Education Podcast, Episode 111: Lockdown Special X</u> , University of Leeds, UK | 2020 |
| <u>Anatomy Education Podcast, Episode 109: Lockdown Special IX</u> , University of Leeds, UK | 2020 |
| <u>Anatomy Education Podcast, Episode 107: Lockdown Special VIII</u> , University of Leeds, UK | 2020 |
| <u>Anatomy Education Podcast, Episode 105: Lockdown Special VII</u> , University of Leeds, UK | 2020 |
| <u>Anatomy Education Podcast, Episode 104: Lockdown Special VI</u> , University of Leeds, UK | 2020 |
| <u>Anatomy Education Podcast, Episode 103: Lockdown Special V</u> , University of Leeds, UK | 2020 |
| <u>Anatomy Education Podcast, Episode 101: Lockdown Special IV</u> , University of Leeds, UK | 2020 |
| <u>Anatomy Education Podcast, Episode 100: Lockdown Special III</u> , University of Leeds, UK | 2020 |
| <u>Anatomy Education Podcast, Episode 99: Lockdown Special II</u> , University of Leeds, UK | 2020 |
| <u>Lessons Learned: Medical Ethics and Auschwitz</u> , WICR's She Says Art, He Says Science | 2020 |
| <u>Leonardo da Vinci, Anatomist</u> , WICR radio program, She Says Art, He Says Science | 2019 |
| <u>Anatomy Education Podcast, Episode 29: Dr. Jason Organ</u> , University of Leeds, UK | 2018 |
| <u>Guest on SciComm Monday Podcast</u> , Hosted by Nicole Wood, wildlife biologist | 2017 |
| <u>Interviewed about Science Communication Workshop</u> , Experimental Biology TV, EB2017 | 2017 |

Social Media Science Channels

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| Curator of <u>AnatSciEduc Twitter</u> (>1000 followers) and <u>Facebook</u> (>2200) accounts | 2020-present |
| Curator of <u>SciCommPLOS Twitter</u> account (>2100 followers) | 2017-present |
| Guest Curator of <u>IAmSciComm Twitter</u> Account (June 4-9) | 2018 |

Grant and Manuscript Reviews

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| -- National Science Foundation | -- Anthropological Science |
| -- LSB Leakey Foundation | -- Biological Journal of the Linnean Society |
| -- American Association for Anatomy | -- Bone |
| -- Research Foundation – Flanders | -- Bone Reports |
| -- American Journal of Human Biology | -- Calcified Tissue International |
| -- American Journal of Physical Anthropology | -- Clinical Anatomy |
| -- American Journal of Physiology – Cell Physiology | -- Folia Primatologica |
| -- Anatomical Record | -- Journal of the American Medical Association |
| -- Anatomical Sciences Education | -- Journal of Applied Physiology |
| -- Anatomy Research International | -- Journal of Bone and Mineral Metabolism |
| | -- Journal of Experimental Biology |

- Journal of Human Evolution
- Journal of Mammalogy
- Journal of Musculoskeletal and Neuronal Interactions
- Journal of Osteoporosis
- Journal of Visualized Experiments (JoVE)
- National Geographic Books
- Neuroscience Letters
- Osteoporosis International
- Paleontologia Africana
- PLOS One
- Primates
- Proceedings of the Royal Society B
- Physiology
- Zoological Journal of the Linnean Society

Professional Service – Off Campus

American Association for Anatomy:

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| Co-Curator, Online Teaching Resources Community—AnatomyConnected | 2020-present |
| Member, Diversity, Equity, and Inclusion Committee | 2019-present |
| Chair, Awards Portfolio Task Force | 2018-present |
| Chair, Recognition Award Task Force | 2019-2020 |
| Organizer and Trainer, Science Communication Bootcamp | 2019 |
| Elected Member, Board of Directors | 2016-2019 |
| Member, Diversity and Inclusion Task Force | 2016-2019 |
| Participant, Strategic Planning Retreat | 2017 |
| Symposium Organizer, Annual Meeting at Experimental Biology | 2017 |
| Reviewer, Innovations Grant Program Review Panel | 2016 |
| Member, Online Community Task Force | 2014 |
| Participant, Strategic Planning Retreat | 2013 |
| Member, Strategic Planning Task Force | 2013 |
| Member, Scientific Affairs Committee | 2011-2014 |
| Member, 125 th Anniversary Task Force | 2010-2013 |
| Member, Public Affairs Committee | 2010-2016 |
| Guest Editor, Special Issue of <i>Anatomical Record</i> journal, April Issue | 2010 |
| Symposium Organizer, Annual Meeting at Experimental Biology | 2010 |
| Chair, Advisory Committee for Young Anatomists | 2008-2010 |
| Symposium Organizer, Annual Meeting at Experimental Biology | 2008 |
| Member, Advisory Committee for Young Anatomists | 2006-2008 |

National:

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| FASEB Publications and Communications Committee | 2016-2019 |
| Early Career Reviewer, Center for Scientific Review, National Institutes of Health | 2014 |
| American Assoc of Physical Anthropologists Anatomical Science Student Award Committee | 2012-2013 |
| Reviewer for American Physiological Society Archive of Teaching Resources, LifeSciTRC.org | 2011-2013 |
| Scientific Program Committee, American Association of Physical Anthropologists | 2008-2010 |

Local:

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| Member, Board of Directors, Indianapolis Jewish Community Relations Council | 2020-present |
| Missouri State Anatomical Board | 2009-2012 |
| St. Louis Anatomical Board | 2009-2012 |

Professional Service – On Campus

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| Member, Teaching Award Committee, IUSM | <i>2019-present</i> |
| Executive Committee, Jewish Faculty and Staff Council, IUPUI | <i>2018-present</i> |
| Member, Indiana Center for Musculoskeletal Health Education Committee, IUSM | <i>2017-present</i> |
| Member, Steering Committee, IU Affiliate of Alan Alda Center for Communicating Science | <i>2016-present</i> |
| Member, Laboratory Animal Resource Center Advisory Committee | <i>2016-present</i> |
| Research Mentor, IUPUI Life-Health Sciences Internship Program | <i>2013-present</i> |
| Member, Department of Anatomy & Cell Biology (ACB) Faculty Mentoring Task Force | <i>2013-present</i> |
| Member, Anatomy, Cell Biology & Physiology Department Chair Search Committee, IUSM | <i>2020</i> |
| Member, IUPUI Research Affairs Committee | <i>2014-2019</i> |
| Research Mentor, IUSM Indianapolis Project SEED/STEM | <i>2014-2018</i> |
| Research Mentor, IUSM Summer Research Program in Academic Medicine | <i>2014-2017</i> |
| Faculty Advisor, IUSM Science Outreach Community (ISOC) Student Interest Group | <i>2018</i> |
| Chair, Networking and Communications Committee, IUPUI Jewish Faculty-Staff Council | <i>2018</i> |
| IUPUI Curriculum Enhancement Grants Review Panel, Center for Teaching and Learning | <i>2018</i> |
| Member, ACB Anatomy Instructor Faculty Search Committee | <i>2018</i> |
| Member, ACB Anatomy Education Postdoctoral Fellow Search Committee | <i>2018</i> |
| Member, ACB Shellhamer Teaching Award Committee | <i>2017</i> |
| Chair, ACB Shellhamer Teaching Award Committee | <i>2016</i> |
| Member, Faculty Affairs Committee, Saint Louis University (SLU) School of Medicine | <i>2011-2012</i> |
| Member, Curriculum Management Committee, SLU School of Medicine | <i>2010-2012</i> |
| Member, Graduate Admissions Committee, SLU Center for Anatomical Science & Education | <i>2009-2010</i> |
| Member, Admissions Committee, SLU Post Baccalaureate Certificate in Anatomical Sciences | <i>2009-2010</i> |