
JASON P. MIHALIK, PHD, CAT(C), ATC

PERSONAL INFORMATION

2201 Stallings-Evans Sports Medicine Complex
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EDUCATION

The University of North Carolina at Chapel Hill, Chapel Hill, NC
Doctor of Philosophy, Interdisciplinary Curriculum in Human Movement Science, August 2009
School of Medicine, Department of Allied Health Sciences
Member, Royster Society of Fellows
Dissertation: The study of head impact biomechanics in adolescent and youth minor ice hockey players

University of Pittsburgh, Pittsburgh, PA
Master of Science, Sports Medicine, December 2004
School of Health and Rehabilitation Sciences, Department of Sports Medicine and Nutrition
Thesis: The relationship between force platform measures and total body center of mass

Concordia University, Montreal, Quebec, Canada
Bachelor of Science, Exercise Science—Athletic Therapy Specialization, May 2001
Faculty of Arts and Science, Department of Exercise Science

PROFESSIONAL EXPERIENCE

The University of North Carolina at Chapel Hill, Chapel Hill, NC
Department of Exercise and Sport Science, College of Arts and Sciences
Associate Professor, July 2016 to present
Assistant Professor, July 2010 to June 2016
Co-Director, Matthew A. Gfeller Sport-Related TBI Research Center, July 2011 to present
Kenan Junior Faculty Fellow, July 2010 to June 2013
Director, Exercise and Sport Science Cadaver Anatomy Laboratory, July 2009 to present
Visiting Lecturer, July 2009 to June 2010

Department of Neurosurgery, School of Medicine
Adjunct Associate Professor, June 2017 to present

Department of Allied Health Sciences, School of Medicine
Adjunct Associate Professor, July 2016 to present
Adjunct Assistant Professor, November 2013 to June 2016

Division of Occupational Science, Department of Allied Health Sciences, School of Medicine
Adjunct Instructor, Fall 2007 & 2008 (OCCT 718)

University of Pittsburgh, Pittsburgh, PA
Department of Sports Medicine, School of Health & Rehabilitation Sciences

Graduate Assistant/Athletic Trainer, August 2002 to May 2004

Concordia University, Montreal, Quebec, Canada
Department of Exercise Science
Teaching Assistant, August 2001 to May 2002

HONORS

- 2016 National winner, Canadian Athletic Therapists Association Writing Award
- 2016 Nominated, New Investigator Award, National Athletic Trainers' Association Research and Education Foundation
- 2015 National winner, Canadian Athletic Therapists Association Writing Award
- 2015 UNC Chancellor's Faculty Entrepreneurship Boot Camp
- 2014 Advancement of Science Award, Neuro-Optometric Rehabilitation Association
- 2014 National winner, Canadian Athletic Therapists Association Writing Award
- 2014 Nominated, New Investigator Award, National Athletic Trainers' Association Research and Education Foundation
- 2013 Nominated, New Investigator Award, National Athletic Trainers' Association Research and Education Foundation
- 2012 Triangle Sports Medicine Community Service Award
- 2012 National winner, Canadian Athletic Therapists Association Writing Award
- 2012 Runner-up, Medical smartphone app of the year, The Appys
- 2011 David H. Perrin Doctoral Dissertation Award Winner, National Athletic Trainers' Association Research and Education Foundation
- 2011 National winner, Canadian Athletic Therapists Association Writing Award
- 2010 Kenan Junior Faculty Fellow, University of North Carolina at Chapel Hill
- 2010 National winner, Canadian Athletic Therapists Association Writing Award
- 2009 First Runner-Up, NATA Kenneth L. Knight Award for the Outstanding Research Manuscript
- 2009 National winner, Canadian Athletic Therapists Association Writing Award
- 2008 Invited attendee, Third Annual National Institutes of Health National Graduate Student Research Festival (Bethesda, MD)
- 2008 Winner, NATA Outstanding Doctoral Student Research Presentation Award (Co-Investigator)
- 2008 National winner, Canadian Athletic Therapists Association Writing Award
- 2007 Winner, NATA Outstanding Doctoral Student Research Poster Award (Principal Investigator)
- 2007 Nominee, NATA Outstanding Masters Student Research Presentation Award (Co-Investigator)
- 2007 National winner, Canadian Athletic Therapists Association Writing Award
- 2007 Winner, Graduate Education Advancement Board Recognition Award, The University of North Carolina at Chapel Hill
- 2006 Winner, NATA Doctoral Student Scholarship Award
- 2006 Winner, NATA Outstanding Master's Student Research Award (Co-Investigator)
- 2006 Nominee, NATA Outstanding Doctoral Student Research Award (Principal Investigator)
- 2006 Nominee, NATA Outstanding Doctoral Student Research Award (Co-Investigator)
- 2006 Nominee for 2 separate studies, NATA Outstanding Master's Student Research Award (Co-Investigator)
- 2006 Finalist, Canadian Athletic Therapists Association Writing Award
- 2006 Award of Distinction, EATA Grad. Student Abstract Research Presentation (Co-Investigator)
- 2005 Finalist, NATA Outstanding Doctoral Student Research Award (Principal Investigator)
- 2005 National winner, Canadian Athletic Therapists Association Writing Award
- 2004 Recipient, Caroline H. and Thomas S. Royster, Jr. 5-year Fellowship, The Graduate School, The University of North Carolina at Chapel Hill

BIBLIOGRAPHY & PRODUCTS OF SCHOLARSHIP

Notes: *Senior author; †Mentored postdoctoral or graduate trainee; ‡Mentored undergraduate student

A. Books and Chapters (10)

Mihalik JP, Lynall RC[†], & Guskiewicz KM. (2017). Brain injuries. In DJ Casa & RL Stearns (Eds.), *Preventing sudden death in sport and physical activity, 2nd Edition*. (pp. 97-126). Boston, MA: Jones and Bartlett Learning.

Casa DJ, Stearns RL, **Mihalik JP**, & Ganio MS. (2016). The unique challenges of field research. In LE Armstrong & WJ Kraemer (Eds.), *ACSM's research methods for exercise science*. (pp. 163-184). Indianapolis, IN: American College of Sports Medicine.

Mihalik JP & Guskiewicz KM. (2015). Brain injuries. In DJ Casa & RL Stearns (Eds.), *Emergency management for sport and physical activity*. (pp. 83-96). Boston, MA: Jones and Bartlett Learning.

Mihalik JP & Littleton AC. (2015). What is the value of baseline testing? In TC Valovich McLeod (Ed.), *Quick questions in sport-related concussion*. (pp. 33-37). Thorofare, NJ: Slack, Inc.

Mihalik JP & Schmidt JD. (2015). Can protective equipment or strengthening the neck decrease the risk of concussion? In TC Valovich McLeod (Ed.), *Quick questions in sport-related concussion*. (pp. 53-57). Thorofare, NJ: Slack, Inc.

Mihalik JP & Lynall RC[†]. (2015). How do head impact indicators work and is there value in recommending that patients purchase them? In TC Valovich McLeod (Ed.), *Quick questions in sport-related concussion*. (pp. 177-181). Thorofare, NJ: Slack, Inc.

Register-Mihalik JK & **Mihalik JP**. (2015). Are there any rehabilitation exercises you can do to help a concussed athlete heal faster? In TC Valovich McLeod (Ed.), *Quick questions in sport-related concussion*. (pp. 141-143). Thorofare, NJ: Slack, Inc.

Mihalik JP. (2012). Biomechanics of Sports Concussion. In MW Kirkwood & KO Yeates (Eds.), *Mild traumatic brain injury in children and adolescents: From basic science to clinical management* (pp. 38-52). New York, NY: Guilford Press.

Mihalik JP & Guskiewicz KM. (2012). Brain injuries. In DJ Casa (Ed.), *Preventing sudden death in sport and physical activity* (pp. 79-108). Boston, MA: Jones and Bartlett Learning.

Guskiewicz KM & **Mihalik JP**. (2006). The biomechanics and pathomechanics of sport-related concussion: Looking at history to build the future. In S Slobounov & W Sebastianelli (Eds.), *Foundations of sport-related brain injuries* (pp. 65-83). New York, NY: Springer Publishing Company.

B. Refereed Papers/Articles in Review (16)

Redacted

C. Refereed Papers/Articles (96)

Yeargin SW, Kingsley P, Mensch J, **Mihalik JP**, & Monsma E. (2017). Anthropometrics and maturity status: A preliminary study of youth football head impact biomechanics. *International Journal of Psychophysiology*. (In Press).

Rowson S, Duma SM, Stemper BD, Shah A, **Mihalik JP**, Harezlak J, Riggen LD, Giza CC, DiFiori JP, Brooks A, Guskiewicz KM, Campbell D, McGinty G, Svoboda SJ, Cameron KL, Broglio SP, McAllister TW, & McCrea M. (2017). Correlation of concussion symptom profile with head impact biomechanics: A case for individual-specific injury tolerance. *Journal of Neurotrauma*. (In Press).

Mustafi SM, Harezlak J, Koch KM, Nencka AS, Meier TB, West JD, Giza CC, DiFiori JP, Guskiewicz KM, **Mihalik JP**, LaConte SM, Duma SM, Broglio SP, Saykin AJ, McCrea M, McAllister TW, & Wu YC. (2017). Acute white-matter abnormalities in sports-related concussion: A diffusion tensor imaging study from the NCAA-DOD CARE Consortium. *Journal of Neurotrauma*. (In Press).

Lynall RC[†], **Mihalik JP**, Pierpoint LA, Currie DW, Knowles SB, Wasserman EB, Dompier TP, Comstock RD, Marshall SW, & Kerr ZY. (2017). The first decade of web-based sports injury surveillance: Descriptive epidemiology of injuries in US high school boys' ice hockey (2008/09-2013/14) and NCAA men's and women's ice hockey (2004/05-2013/14). *Journal of Athletic Training*. (In Press).

Clark MD, Davis MP, Petschauer MA, Swartz EE, & **Mihalik JP***. (2017). Removing men's lacrosse equipment improves chest compressions and ventilations. *Journal of Athletic Training*. (In Press).

Mihalik JP, Sumrall AZ[†], Yeargin SW, Guskiewicz KM, King KB, Trulock SC, & Shields EW. (2017). Environmental and physiological factors affect football head impact biomechanics. *Medicine & Science in Sports & Exercise*. (In Press).

Santo AL, Lynall RC[†], Guskiewicz KM, & **Mihalik JP***. (2017). Clinical utility of the Sport Concussion Assessment Tool 3 (SCAT3) tandem gait test in high school athletes. *Journal of Athletic Training*. (In Press).

Urban JE, Konczal E, Kopacki M, Register-Mihalik JK, **Mihalik JP**, Stitzel JD, & Rosenbaum DA. (2017). Presence of athletic trainers in a youth football organization: A single institution's experience. *Athletic Training & Sports Health Care*. (In Press).

Powierza CS, Clark MD, Hughes JM, Carneiro KA, & **Mihalik JP***. (2017). Validation of a self-monitoring tool for use in post-concussion therapy. *PM&R*. doi: 10.1016/j.pmrj.2017.03.012. (In Press).

Lynall RC[†], Pietrosimone BG, Kerr ZY, Mauntel TC, **Mihalik JP**, & Guskiewicz KM. (2017). Associations between osteoarthritis and concussion history in retired NFL players. *Journal of Athletic Training*, 52(6), 518-525.

Lynall RC[†], Zukowski LA, Plummer P, **Mihalik JP***. (2017). Reliability and validity of the Protokinetics Movement Analysis Software in measuring center of pressure during walking. *Gait & Posture*, 52(2017), 308-311.

Mihalik JP, Lynall RC[†], Wasserman EB[†], Guskiewicz KM, & Marshall SW. (2017). Evaluating the "threshold theory": Can head impact indicators help? *Medicine & Science in Sports & Exercise*, 49(2), 247-253.

Myer GD, Yuan W, Barber Foss KD, Smith D, Altaye M, Reches A, Leach J, Kiefer A, Khoury J, Weiss M, Thomas S, Dicesare C, Adams J, Gubanich P, Geva A, Clark J, Meehan WP, **Mihalik JP**, & Krueger D. (2016). The effects of external jugular compression applied during head impact exposure on longitudinal changes in brain neuroanatomical and neurophysiological biomarkers: A preliminary investigation. *Frontiers in Neurology (Neurotrauma)*, 7, 74. doi: 10.3389/fneur.2016.00074

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Mihalik JP, Lynall RC[†], Fraser MA, Decoster LC, De Maio VJ, Patel AP, & Swartz EE. (2016). Football equipment removal improves chest compression and ventilation efficacy. *Prehospital Emergency Care*, 20(5), 578-585.

- Talarico MK[†], Lynall RC[†], Mauntel TC, Weinhold PS, Padua DA, & **Mihalik JP***. (2016). Static and dynamic single leg postural control performance during dual-task paradigms. *Journal of Sports Sciences*, 35(11), 1118-1124.
- Kuo C, Wu LC, Hammor BT, Luck JF, Cutcliffe HC, Lynall RC[†], Kait JR, Campbell KR[†], **Mihalik JP**, Bass CR, & Camarillo DB. (2016). Effect of the Mandible on Mouthguard Measurements of Head Kinematics. *Journal of Biomechanics*, 49(9), 1845-1853.
- Schmidt JD, Guskiewicz KM, **Mihalik JP**, Blackburn JT, Siegmund GP, & Marshall SW. (2016). Head impact magnitude in American high school football. *Pediatrics*, 138(2), doi: 10.1542/peds.2015-4231.
- Lynall RC[†], Clark MD, Grand EE, Stucker JC[†], Littleton AC, Aguilar AJ, Petschauer MA, Teel EF[†], & **Mihalik JP***. (2016). Head impact biomechanics in women's college soccer. *Medicine & Science in Sports & Exercise*, 48(9), 1772-1778.
- Liao S[†], Lynall RC[†], & **Mihalik JP***. (2016). The effect of head impact location on day of diagnosed concussion in college football. *Medicine & Science in Sports & Exercise*, 48(7), 1239-1243.
- Asken BME[†], **Mihalik JP***, Schmidt JD, Littleton AC, Guskiewicz KM, & Hopfinger JB. (2016). Visual performance measures and functional implications in healthy participants: A sports concussion perspective. *Athletic Training & Sports Health Care*, 8(4), 145-153.
- Lynall RC[†], Schmidt JD, **Mihalik JP**, & Guskiewicz KM. (2016). The clinical utility of a concussion rebaseline protocol after concussion recovery. *Clinical Journal of Sports Medicine*, 26(4), 285-290.
- DeFreese JD & **Mihalik JP**. (2016). Work-based social interactions, perceived stress and workload incongruence as antecedents of athletic trainer burnout. *Journal of Athletic Training*, 51(1), 28-34.
- Lynall RC[†], Kerr ZY, Parr MS[†], Hackney AC, & **Mihalik JP***. (2016). Division I college football concussion rates are higher at higher altitudes. *Journal of Orthopaedic & Sports Physical Therapy*, 46(2), 96-103.
- Lynall RC[†], Mauntel TC, Padua DA, & **Mihalik JP***. (2015). Acute lower extremity injury rates increase after concussion in college athletes. *Medicine & Science in Sports & Exercise*, 47(12), 2487-2492.
- Lenhardt CS[†], **Mihalik JP***, Lynall RC[†], Fraser MA, Petschauer MA, & Swartz EE. (2015). The effect of football shoulder pad removal technique and equipment removal training on cervical spine motion, time to task completion, and perceived task difficulty. *Athletic Training & Sports Health Care*, 7(6), 232-241.
- Littleton AC, Schmidt JD, Register-Mihalik JK, Guskiewicz KM, Waicus KM, Gioia GA, & **Mihalik JP**. (2015). Effects of attention deficit hyperactivity disorder and stimulant medication on concussion symptom reporting and computerized neurocognitive test performance. *Archives of Clinical Neuropsychology*, 30(7), 683-693.
- Pietrosimone BG, Golightly YM, **Mihalik JP**, & Guskiewicz KM. (2015). Concussion frequency associates with musculoskeletal injury in retired NFL players. *Medicine & Science in Sports & Exercise*, 47(11), 2366-2372.
- Schmidt JD, Guskiewicz KM, **Mihalik JP**, Blackburn JT, Siegmund GP, & Marshall SW. (2015). Does visual performance influence head impact severity among high school football athletes? *Clinical Journal of Sports Medicine*, 25(6), 494-501.
- Swartz EE, **Mihalik JP**, Decoster LC, Al-Darraj SJ, & Bric JD. (2015). Emergent access to the airway and chest in American football. *Journal of Athletic Training*, 50(7), 681-687.
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Hudziak JJ, Huston III J, Krause D, LaVoi N, Leaf M, Leddy JJ, MacPherson A, McKee AC, **Mihalik JP**, Moessner AM, Montelpare WJ, Putukian M, Schneider KJ, Szalkowski R, Tabrum M, Whitehead J, & Wiese-Bjornstal DM. (2015). Ice Hockey Summit II: Zero Tolerance for Head Hits and Fighting. *Clinical Journal of Sports Medicine*, 25(2), 78-87.

These proceedings were published concurrently in the following journals:
Current Sports Medicine Reports, 14(2), 135-144.
PM&R, 7(3), 283-295.

Kerr ZY, **Mihalik JP**, Guskiewicz KM, Rosamond WD, Evenson KR, & Marshall SW. (2015). Agreement between athlete-recalled and clinically documented concussion histories in former collegiate athletes. *American Journal of Sports Medicine*, 43(3), 606-613.

Mihalik JP, Lynall RC[†], Teel EF[†], & Carneiro KA. (2014). Concussion management in soccer. *Journal of Sport and Health Science*, 3(4), 307-313.

Kerr ZY, Evenson KR, Rosamond WD, **Mihalik JP**, Guskiewicz KM, & Marshall SW. (2014). Association between concussion and mental health in former collegiate athletes. *Injury Epidemiology*, 1, 28.

Kerr ZY, Collins CL, **Mihalik JP**, Marshall SW, Guskiewicz KM, & Comstock RD. (2014). Impact locations and concussion outcomes in high school football player-to-player collisions. *Pediatrics*, 134(3), 489-496.

Schmidt JD, Guskiewicz KM, Blackburn JT, **Mihalik JP**, Siegmund GP, & Marshall SW. (2014). The influence of cervical muscle characteristics on head impact biomechanics in football. *American Journal of Sports Medicine*, 42(9), 2056-2066.

Kerr ZY, Register-Mihalik JK, Marshall SW, Evenson KR, **Mihalik JP**, & Guskiewicz KM. (2014). Disclosure and non-disclosure of concussion and concussion symptoms in athletes: Review and application of the socio-ecological framework. *Brain Injury*, 28(8), 1009-1021.

Mihalik JP, Moise KF[†], Ocwieja KE[†], Guskiewicz KM, & Register-Mihalik JK. (2014). The effects of player anticipation and involvement on head impact biomechanics in college football body collisions. In A. Ashare & M. Ziejewski (Eds.), *ASTM Selected Technical Papers 1552 on Symposium on the Mechanism of Concussion in Sports* (pp. 41-55). West Conshohocken, PA: ASTM International.

Ingriselli JM, Register-Mihalik JK, Schmidt JD, **Mihalik JP**, Goerger BM, & Guskiewicz KM. (2014). Outcomes, utility, and feasibility of single task and dual task intervention programs: Preliminary implications for post-concussion rehabilitation. *Journal of Science and Medicine in Sport*, 17(6), 580-585.

Swartz EE, **Mihalik JP**, Beltz EM, Day MA, & Decoster LC. (2014). Face mask removal is safer than helmet removal for emergent airway access in American football. *The Spine Journal*, 14(6), 996-1004.

Williams RM, Valovich McLeod TC, Register-Mihalik JK, **Mihalik JP**, Marshall SW, Linnan LA, & Guskiewicz KM. (2014). A preliminary study of helmet fit characteristics and knowledge. *Athletic Training & Sports Health Care*, 6(5), 206-212.

Rowson S, Duma SM, Greenwald RM, Beckwith JB, Chu JJ, Guskiewicz KM, **Mihalik JP**, Crisco JJ, Wilcox BJ, McAllister TW, Maerlender AC, Broglio SP, Schnebel B, Anderson S, & Brolinson PG. (2014). Can helmet design reduce the risk of concussion in football? *Journal of Neurosurgery*, 120(4), 919-922.

Harpham JA[†], **Mihalik JP***, Littleton AC, Frank BS, & Guskiewicz KM. (2014). The effect of visual and sensory performance on head impact biomechanics in college football players. *Annals of Biomedical Engineering*, 42(1), 1-10.

Lynall RC[†], Laudner KG, **Mihalik JP**, & Stanek J. (2013). Concussion-assessment and -management techniques used by athletic trainers. *Journal of Athletic Training*, 48(6), 844-850.

- Mihalik JP**, Register-Mihalik JK, Kerr ZY, Marshall SW, McCrea MC, & Guskiewicz KM. (2013). The effect of posttraumatic migraine characteristics on concussion recovery in patients following sport-related concussion. *American Journal of Sports Medicine*. 41(7), 1490-1496.
- Mihalik JP**, Lengas E[†], Register-Mihalik JK, Oyama S, Begalle RL, & Guskiewicz KM. (2013). The effects of sleep quality and quantity on concussion baseline assessment. *Clinical Journal of Sports Medicine*, 23(5), 343-348.
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- Register-Mihalik JK, Guskiewicz KM, **Mihalik JP**, Schmidt JD, Kerr ZY, & McCrea MA. (2013). Reliable change, sensitivity, and specificity of a multidimensional concussion assessment battery: Implications for caution in clinical practice. *Journal of Head Trauma Rehabilitation*, 28(4), 274-283.
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- Beckwith JG, Greenwald RM, Chu JJ, Crisco JJ, Rowson S, Duma SM, Broglio SP, McAllister TW, Guskiewicz KM, **Mihalik JP**, Anderson S, Schnebel B, Brolinson PG, & Collins MW. (2013). Timing of concussion diagnosis is related to head impact exposure prior to injury. *Medicine & Science in Sports & Exercise*, 45(4), 747-754.
- Beckwith JG, Greenwald RM, Chu JJ, Crisco JJ, Rowson S, Duma SM, Broglio SP, McAllister TW, Guskiewicz KM, **Mihalik JP**, Anderson S, Schnebel B, Brolinson PG, & Collins MW. (2013). Head impact exposure sustained by football players on days of diagnosed concussion. *Medicine & Science in Sports & Exercise*, 45(4), 737-746.
- Stiffler M[†], **Mihalik JP***, Register-Mihalik JK, & Ingriselli JM. (2013). Cognition and balance performance following a single-task training intervention in healthy collegiate recreational students: A preliminary study. *Athletic Training & Sports Health Care*, 5(2), 63-68.
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Mihalik JP, Guskiewicz KM, Marshall SW, Blackburn JT, Cantu RC, & Greenwald RM. (2012). Head impact biomechanics in youth hockey: Comparisons across playing position, event types, and impact locations. *Annals of Biomedical Engineering*, 40(1), 141-149.

Ocwieja KE[†], **Mihalik JP***, Marshall SW, Schmidt JD, Trulock SC, & Guskiewicz KM. (2012). The effect of play type and collision closing distance on head impact biomechanics. *Annals of Biomedical Engineering*, 40(1), 90-96.

Gysland SM[†], **Mihalik JP***, Register-Mihalik JK, Trulock SC, Shields EW, & Guskiewicz KM. (2012). The relationship between subconcussive impacts and concussion history on clinical measures of neurologic function in collegiate football players. *Annals of Biomedical Engineering*, 40(1), 14-22.

Mihalik JP, Guskiewicz KM, Marshall SW, Greenwald RM, Blackburn JT, & Cantu RC. (2011). Does cervical muscle strength in youth ice hockey players affect head impact biomechanics? *Clinical Journal of Sports Medicine*, 21(5), 416-421.

Ross LM, Register-Mihalik JK, **Mihalik JP**, McCulloch KL, Prentice WE, Shields EW, & Guskiewicz KM. (2011). Effects of a single task vs. a dual task paradigm on cognition and balance in healthy subjects: A feasibility and reliability study. *Journal of Sport Rehabilitation*, 20(3), 296-310.

Smith AM, Stuart MJ, Greenwald RM, Benson BW, Dodick DW, Emery CA, Finnoff JT, **Mihalik JP**, Roberts WO, Sullivan CA, & Meeuwisse WH. (2011). Proceedings from the Ice Hockey Summit on Concussion: A call to action. *Clinical Journal of Sports Medicine*, 21(4), 281-287.

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Swartz EE, Hernandez AE, Decoster LC, **Mihalik JP**, Burns MF, & Reynolds C. (2011). Prehospital emergency removal of football helmets using two techniques. *Prehospital Emergency Care*, 15(2), 166-174.

Guskiewicz KM & **Mihalik JP**. (2011). Biomechanics of sport concussion: Quest for the elusive injury threshold. *Exercise and Sport Sciences Reviews*, 39(1), 4-11.

Mihalik JP, Blackburn JT, Greenwald RM, Cantu RC, Marshall SW, & Guskiewicz KM. (2010). Collision type and player anticipation affect head impact severity in youth ice hockey players. *Pediatrics*. DOI: 10.1542/peds.2009-2849, e1394-e1401.

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Kukaswadia A, Warsh J, **Mihalik JP**, & Pickett WJ. (2010). A population-based study of the effect of changing body checking rules on rates of injury in minor hockey. *Pediatrics*, 125(4), 735-741.

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Lynch SS, Thigpen CA, **Mihalik JP**, Prentice WE, & Padua DA. (2010). The effects of an exercise intervention on forward head and rounded shoulder postures in elite swimmers. *British Journal of Sports Medicine*, 44(5), 376-381.

Mihalik JP, Ondrak KS, Guskiewicz KM, & McMurray RG. (2009). Clinical measures of concussion remain stable across the female menstrual cycle. *Journal of Science and Medicine in Sport*, 12(3), 383-387.

Mihalik JP, Jeffries JA, Ciocca MF, & Guskiewicz KM. (2009). Pediatric mild traumatic brain injury: A case review. *Athletic Training & Sports Health Care*, 1(1), 32-36.

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Register JK, Guskiewicz KM, & **Mihalik JP**. Effect of chronic headache on post-concussion measures. *Fifth Annual Sports Medicine and Neurotrauma Review*, Orlando, FL. (March 10-13, 2005).

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F. Non-Refereed Publications (12)

Schmidt JD, Guskiewicz KM, **Mihalik JP**, Blackburn JT, Siegmund GP, & Marshall SW. (2016). TBD. *Clinical Journal of Sports Medicine*, VOL(ISS), PP. (Response to Letter to the Editor) (In Press)

Lynall RC[†], Kerr ZY, Parr MS[‡], Hackney AC, & **Mihalik JP**. (2016). Altitude (if you can call it that) has no bearing on the rates of concussions in athletes. *Journal of Orthopaedic & Sports Physical Therapy*, 46(3), 226-228. (Response to Letter to the Editor)

Rowson S, Duma SM, Greenwald RM, Beckwith JB, Chu JJ, Guskiewicz KM, **Mihalik JP**, Crisco JJ, Wilcox BJ, McAllister TW, Maerlender AC, Broglio SP, Schnebel B, Anderson S, & Broolinson PG. (2014). Can helmet design reduce the risk of concussion in football? *Journal of Neurosurgery*, 121(2), 491-494. (Response to Letter to the Editor)

Mihalik JP. (2011). Concussion: What coaches need to know. *This is AFCA (American Football Coaches Association)*, September issue.

Mihalik JP & Budinsky C[‡]. (2007). Why should we care about evidence-based medicine? *Newsletter of the Canadian Athletic Therapists Association*, November issue, 8-10.

Mihalik JP, McCaffrey MA, Rivera EM, Pardini JE, Guskiewicz KM, Collins MW, & Lovell MR. (2007). Effectiveness of mouthguards in reducing neurocognitive deficits following sports-related concussion. *Dental Traumatology*, 23(4), 262-263. (Response to Letter to the Editor)

Mihalik JP, Stump JE, Collins MW, Lovell MR, Field M, & Maroon JC. (2005). Posttraumatic migraine characteristics in athletes following sports-related concussion. *Journal of Neurosurgery*, 103(5), 934-935. (Response to Letter to the Editor)

Mihalik JP. (2004). Recognition of psychological conditions in high school athletes. *Athletic Therapy Today*, 9(3), 54-55.

Mihalik JP & Kirnan J. (2002). What is cauliflower ear? *Québec XV: Le Journal du Rugby au Québec*, 7(1), 14.

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G. Software Development/Authoring (2)

Mihalik JP & Gioia GA. (2012). Concussion assessment & response: Sport version (Version 1.1) [iOS/Android app]. Lutz, FL: Psychological Assessment Resources, Inc.
Apple App Store: <http://tinyurl.com/ool5gov>
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Gioia GA & **Mihalik JP.** (2011). Concussion recognition & response™: Coach & parent version (Version 1.2.2) [iOS/Android app]. Lutz, FL: Psychological Assessment Resources, Inc.
Apple App Store: <http://tinyurl.com/okm7d9z>
Google Play: <http://tinyurl.com/mzuf9qm>

H. Invited Scholarly Presentations (88)

Mihalik JP. Individual player prevention: Anticipation, strength, and concussion history. *Ice Hockey Summit III: Action on Concussion*, Rochester, MN. (September 28, 2017).

Mihalik JP. Ice hockey: Body checking, head contact and sport safety - How impact biomechanics is keeping heads up! *2017 National Athletic Trainers' Association Clinical Symposia & Athletic Training Expo*, Houston, TX. (June 29, 2017). [National Athletic Trainers' Association Feature Presentation]

Mihalik JP & Broglio SP. Long-term & cumulative effects of concussion: Where's the evidence? *2017 National Athletic Trainers' Association Clinical Symposia & Athletic Training Expo*, Houston, TX. (June 29, 2017). [National Athletic Trainers' Association Peer-to-Peer Presentation]

Mihalik JP. Concussion in sport: From diagnosis to treatment. *9th Collegiate and Professional Sports Dietitians Association Annual Conference*, Scottsdale, AZ. (May 18, 2017).

Mihalik JP. Role of sensors in recognition of injury. *Head Injury in Soccer: From Science to the Field*, New York, NY. (April 21, 2017).

Mihalik JP. Head trauma research: A multidisciplinary approach. *Sheridan College Athletic Therapy Lecture Series*, Mississauga, Ontario, Canada. (April 6, 2017).

Mihalik JP. Concussion: How paranoia and science intersect to improve sports. *North Carolina Central University School of Law*, Durham, NC. (November 2, 2016). [Keynote Address]

Mihalik JP. Intersecting sports vision & injury prevention. *2016 Ultimate Concussion Conference*, Hollywood, FL. (October 22, 2016).

Mihalik JP. Concussion: The waiting game. *2016 Professional Hockey Players Association Workers' Compensation Panel Meeting*, Montreal, Quebec, Canada. (September 16, 2016).

Mihalik JP. Pediatric concussive head trauma: Research and prevention. *2016 Southeastern Pediatric Trauma Conference*, Charlotte, NC. (September 9, 2016).

Mihalik JP. Concussion: How paranoia and science intersect to improve sports. *2016 See the Line Conference*, London, Ontario, Canada. (August 10, 2016).

Mihalik JP. New diagnostics/devices: Tools, electrophysiology, & imaging. *2016 American Academy of Neurology Sports Concussion Conference*, Chicago, IL. (July 8, 2016).

Mihalik JP, Clark MD, Kramer MR[‡], Lynall RC, Rodrigo CJ, & Teel EF. Modern concussion management paradigm: Today's complexities and tomorrow's solutions. *2016 National Athletic Trainers' Association Clinical Symposia & Athletic Training Expo*, Baltimore, MD. (June 22, 2016). [National Athletic Trainers' Association Advance Track Seminar]

Mihalik JP. Biomedical challenge to warfighter, veteran and civilian: Diagnosing and treating traumatic brain injury and PTSD. *North Carolina Biotech Center & NC Military Business Center Support to the Warfighter Symposium*, Durham, NC. (June 8, 2016).

Mihalik JP. Concussion: Intersecting paranoia, sciences and sports safety. *Canadian Athletic Therapists Association National Conference*, Vancouver, British Columbia, Canada. (May 28, 2016). [Keynote Address].

Mihalik JP. Sports-related concussions: Facts vs. myths. *High Point University Athletic Training Symposium*, High Point, NC. (April 4, 2016). [Keynote Address].

Mihalik JP. Sport-related concussion: Current trends in engineering sports safety. *Defense Veterans Brain Injury Centers Intrepid Spirit Symposium*, Fort Bragg, NC. (March 30, 2016).

Mihalik JP. Concussion biomechanics: Engineering safety in the sports arena and battlefield. *Florida International University Athletic Training Symposium*, Miami, FL. (March 28, 2016). [Keynote Address]

Mihalik JP & Wasserman EB. Concussion and winter sports. *Defense and Veterans Brain Injury Center*, Silver Spring, MD. (February 11, 2016).

Mihalik JP. Head impact biomechanics: Engineering safe sport. *College Athletic Trainers' Society & National Collegiate Athletic Association Safety in College Football Summit*, Orlando, FL. (February 10, 2016).

Guskiewicz KM & **Mihalik JP.** Concussion: Innovative solutions to a challenging problem in sports and the military. *UNC Tar Heel Tailgate Talk Series*, Chapel Hill, NC. (November 14, 2015).

Mihalik JP. Traumatic brain injury management: Intersecting athletics with special operations. *North Carolina Defense Business Association Science & Technology Meeting*, Durham, NC. (November 12, 2015).

Mihalik JP. Seeing is believing: Assessing vision following concussion. *North Carolina Athletic Trainers' Association Symposium*, Salisbury, NC. (July 11, 2015).

Mihalik JP. Vision assessment following concussion: What's on the horizon? *2015 National Athletic Trainers' Association Clinical Symposia & Athletic Training Expo*, St. Louis, MO. (June 25, 2015). [National Athletic Trainers' Association Feature Presentation]

Mihalik JP. Repetitive head impacts and telemetry monitoring: State of the science. *National Summit on Sports Concussion*, Los Angeles, CA. (June 5, 2015).

Mihalik JP. Concussion biomechanics: A vision for engineering safe sport. *Concordia University 2015 Department of Exercise Science Lecture Series*, Montreal, Quebec, Canada. (March 27, 2015).

Mihalik JP. Head impact biomechanics: Engineering safe sport. *Virginia Tech Symposium on Head Acceleration Measurement Sensors*, Blacksburg, VA. (March 10, 2015).

Mihalik JP. Concussions: A call for youth sport safety. *2015 Youth Sport Safety Governing Bodies Meeting*, New York, NY. (January 22-23, 2015).

Mihalik JP. Traumatic brain injury management: Intersecting athletics with special operations. *2014 Special Operations Medical Association's Scientific Assembly and Exhibition*, Tampa, FL. (December 11, 2014).

Mihalik JP. Update on concussion and chronic traumatic encephalopathy. *World Federation of Athletic Training & Therapy World Congress*, Dublin, Ireland. (September 4-6, 2014).

Mihalik JP. Head impact biomechanics in youth ice hockey: A case for injury prevention. *2014 Hit Count Symposium*, Boston, MA. (July 15, 2014).

Mihalik JP. Protective headgear: Current technologies & materials, and its relation to injury prevention. *2014 National Athletic Trainers' Association Clinical Symposia & Athletic Training Expo*, Indianapolis, IN. (June 27, 2014). [National Athletic Trainers' Association J&J Keynote Feature Presentation]

Mihalik JP. Chronic traumatic encephalopathy: Clinical sequelae of multiple traumatic brain injuries. *Mid-Atlantic Athletic Trainers' Association Student Symposium*, Virginia Beach, VA. (May 10, 2014).

Mihalik JP. A vision for change: Translating clinical concussion research. *5th Annual Zeigler Research Forum*, University of Vermont, Burlington, VT. (May 1, 2014). [Keynote Address].

Mihalik JP. Postconcussion rehabilitation and alternative treatments: When rest alone does not seem to be working. *4th Annual First Coast Sports Injury Symposium*, Jacksonville, FL. (April 12, 2014).

Mihalik JP. A vision of concussions: What they are, traditional treatment, and the implications for innovation. *Neuro-Optometric Rehabilitation Association General Conference*, Cary, NC. (April 5-6, 2014).

Mihalik JP. A vision for change: Translating clinical concussion research. *Substance Abuse & Violence Initiative/Center for Brain, Biology, and Behavior Seminar*, University of Nebraska, Lincoln, NE. (March 31, 2014) [Keynote Address].

Mihalik JP. Neurocognitive testing: Is it necessary? *TEAMWORK: Management of Concussion in the Youth/Recreational Athlete*, Asheville, NC. (March 1, 2014).

Mihalik JP. Sex inequality in concussion research and assessment. *Female Athletes and Injury: Prevention, Treatment and Recovery*, Greensboro, NC. (October 24-25, 2013).

Mihalik JP. A scientist and hockey coach perspective of concussion prevention. *Mayo Clinic Sports Medicine Center Ice Hockey Summit II: Action on Concussion*, Rochester, MN. (October 8-9, 2013).

Mihalik JP. Concussion: A problem for the ages. *University of Connecticut Grand Rounds*, Storrs, CT. (September 13, 2013).

Mihalik JP. Concussion: The spectrum of injury. *Western North Carolina Concussion and Injury Prevention Symposium*, Asheville, NC. (August 16, 2013).

Mihalik JP. Concussion research: Past, present, and future directions. *Nationwide Children's Hospital Clinical and Translational Series*, Columbus, OH. (July 23, 2013).

Mihalik JP. Concussion management: Heads up! *2013 American Orthopaedic Society for Sports Medicine Annual Meeting*, Chicago, IL. (July 13, 2013).

Mihalik JP. What to do when rest alone does not work? Alternative approaches to concussion management. [National Athletic Trainers' Association Minicourse] *2013 National Athletic Trainers' Association Annual Meeting & Clinical Symposia*, Las Vegas, NV. (June 24, 2013).

Mihalik JP. Research digest: A rapid fire approach. *SafeKids Childhood Injury Prevention Conference*, Washington, DC. (June 21, 2013).

Mihalik JP. Alternative strategies to treat concussion: A look at the evidence. *Charlotte Sports Medicine Symposium*, Charlotte, NC. (June 8, 2013).

Mihalik JP. Front matter: Setting the stage for clinical research. *Second Matthew Gfeller Sport-Related Neurotrauma Symposium*, Chapel Hill, NC. (March 8-9, 2013).

Mihalik JP. A laboratory evaluation of bull riding helmets and facemasks. *Justin Rodeo Sports Medicine Conference*, Las Vegas, NV. (December 10, 2012).

Mihalik JP. Innovations in brain injury: Is there an app for that? *Brain Injury Association of North Carolina and Wake AHEC Present Traumatic Brain Injury 2012*, Cary, NC. (October 26, 2012).

Mihalik JP. Alternative treatment of concussions. *Athletic Trainers Society of New Jersey's Sports Safety Summit*, New Brunswick, NJ. (August 1, 2012).

Mihalik JP. Concussion management: Adolescents to college aged athletes. *Fourth Annual Sports Medicine Care Continuum: Keeping the Athlete's Care at Heart*, Nashville, TN. (July 14, 2012). [Keynote address].

Mihalik JP. Spine stabilization on unstable surfaces: Challenges of spine stabilization in ice hockey. [National Athletic Trainers' Association Feature Presentation] *2012 National Athletic Trainers' Association Annual Meeting & Clinical Symposia*, St. Louis, MO. (June 29, 2012).

Mihalik JP. Concussion management: A focus on rehabilitation and treatment. *Big 12 Conference Medical Aspects of Sport*, Dallas, TX. (May 4, 2012).

Mihalik JP. Head impact biomechanics and helmet testing. *Big 12 Conference Medical Aspects of Sport*, Dallas, TX. (May 4, 2012).

Mihalik JP. Student-athlete safety: The team approach. *North Carolina Athletic Trainers' Association Symposium*, Wilmington, NC. (March 16, 2012). [Keynote address].

Mihalik JP. The "team" approach to player safety: The hockey network. *Play Smart: Concussion Prevention in Youth and Interscholastic Hockey*, South Shore Hospital, Randolph, MA. (January 23, 2012). [Keynote address].

Mihalik JP. Concussion rehabilitation: What we know now! *South Atlantic Conference Athletic Trainers Meeting*, Salisbury, NC. (July 23, 2011).

Mihalik JP. Biomechanics of concussion. *Athletic Trainers Society of New Jersey's Concussion Summit*, Plainsboro, NJ. (July 17, 2011).

Mihalik JP. The hockey helmet: The last stand against concussion prevention? [National Athletic Trainers' Association Feature Presentation] *2011 National Athletic Trainers' Association Annual Meeting & Clinical Symposia*, New Orleans, LA. (June 19-22, 2011).

Swartz EE, **Mihalik JP**, & Decoster LC. Neutral alignment in the cervical spine during acute cervical spine injury management. *2011 American College of Sports Medicine Annual Meeting*, Denver, CO. (May 31-June 4, 2011).

Mihalik JP. Sport-related concussion: A problem for the ages? *Canadian Athletic Therapists Association National Conference*, Banff, Alberta, Canada. (May 25-28, 2011).

Mihalik JP. Biomechanics of sport-related traumatic brain injuries. *Inaugural Matthew Gfeller Sport-Related Neurotrauma Symposium*, Chapel Hill, NC. (April 29-30, 2011).

Guskiewicz KM, **Mihalik JP**, & Register-Mihalik JK. Concussion in collegiate sports: The evolution and implications of new policies and educational initiatives. *2011 College Sport Research Institute Conference*, Chapel Hill, NC. (April 20-21, 2011).

Mihalik JP. Concussions, law and amateur sports: Implications of emerging medical science for the regulation of student athlete safety. *Collegiate Sports Law Symposium: The Business of Amateur Sports*, Los Angeles, CA. (April 8, 2011).

Mihalik JP. Preparing youth for high velocity sports. *27th Annual Sports, Cardiovascular, and Wellness Nutrition (SCAN) Symposium*, Chicago, IL. (March 11, 2011).

Mihalik JP. Neck strength, anticipation, activation and its relationships to proneness to concussion: Gender differences? *Ice Hockey Summit: Action on Concussion*, Mayo Clinic, Rochester, MN. (October 19-20, 2010).

Mihalik JP. Putting our heads together: A call for action. *Blow by Blow: Sport Concussion Management*, Toronto, Ontario, Canada. (August 31, 2010). [Keynote address].

Mihalik JP. Concussion rehabilitation: A new spin on return-to-play management. *2010 National Athletic Trainers' Association Annual Meeting and Clinical Symposium*, Philadelphia, PA. (June 22-25, 2010).

Mihalik JP. Head injury biomechanics. *2010 American College of Sports Medicine Annual Meeting*, Baltimore, MD. (June 1-5, 2010).

Mihalik JP. Current state of concussion research. *Seventh Annual Sports Related Conference on Concussion and Spine Injury*, Boston, MA. (May 12, 2010).

Mihalik JP. (2009). Dying to play: An overview of concussion in sports. *American Medical Athletic Association 18th Annual Sports Medicine Symposium at the Marine Corps Marathon*, Arlington, VA. (October 23-24, 2009).

Guskiewicz KM, Broglio SP, & **Mihalik JP**. (2009). Sport-related concussion: Navigating the latest research findings & clinical recommendations. *National Athletic Trainers' Association Annual Meeting and Clinical Symposium*, San Antonio, TX. (June 17-21, 2009).

Mihalik JP. (2009). Concussion evaluation and return-to-play decision-making. *Canadian Athletic Therapists Association National Conference*, Vancouver, British Columbia. (May 30, 2009).

Mihalik JP. (2009). Postconcussion return-to-play decisions: An emphasis on athlete rehabilitation. [Invited Workshop]. *Canadian Athletic Therapists Association National Conference*, Vancouver, British Columbia. (May 28, 2009).

Mihalik JP. (2009). Current trends in concussion management: An evidence-based approach to the "hidden epidemic." *New Hampshire Athletic Trainers' Association Annual Meeting*, Bow, NH. (May 17, 2009).

Mihalik JP. (2009). Head impacts in youth ice hockey: Translating biomechanics research to safer play. [Invited faculty]. *2009 London Hockey Concussion Summit*, London, Ontario, Canada. (January 17-18, 2009).

Mihalik JP. (2008). One size does not fit all: Using evidence to develop concussion assessment protocols. [National Athletic Trainers' Association Education Council Continuing Education Committee featured symposium] *2008 National Athletic Trainers' Association Annual Meeting and Clinical Symposium*, St. Louis, MO. (June 17-21, 2008).

Mihalik JP & Guskiewicz KM. (2008). Relationship between neuropsychological testing and other clinical measures of concussion. [Featured Science Session: Neuropsychological assessment of the concussed athlete: Only one piece of the concussion puzzle] *2008 American College of Sports Medicine Annual Meeting*, Indianapolis, IN. (May 28-31, 2008).

Mihalik JP. Clinical approach and research initiatives: Understanding sports-related concussion. *2008 Mid-Atlantic Athletic Trainers' Association Symposium*, Virginia Beach, VA. (May 16-18, 2008).

Mihalik JP. Neuropsychological testing: What is it and how can you use it? *2007 National Athletic Trainers' Association Annual Meeting and Clinical Symposium*, Anaheim, CA. (June 26-30, 2007).

Mihalik JP. Minor traumatic brain injury in pediatric and adolescent athletes: Is it worth the headache? *Third International Meeting on Minor Traumatic Brain Injuries in Sports*, St. Moritz, Switzerland. (March 12-17, 2007).

Guskiewicz KM & **Mihalik JP.** Real time analysis of impacts in youth hockey. *Third International Meeting on Minor Traumatic Brain Injuries in Sports*, St. Moritz, Switzerland. (March 12-17, 2007).

Mihalik JP. Clinical approach and research initiatives: Managing sports-related concussion. *North Carolina Athletic Trainers' Association Annual Meeting and Clinical Symposium*, Raleigh, NC. (March 2-4, 2007).

Mihalik JP. Postural stability assessment following mild head injury. *2006 National Athletic Trainers' Association Annual Meeting and Clinical Symposium*, Atlanta, GA. (June 14-18, 2006).

Mihalik JP. Current concepts in the management of sports-related concussion. *2006 Canadian Athletic Therapists Association Annual Conference*, Ottawa, ON, Canada. (May 24-27, 2006).

Mihalik JP & Guskiewicz KM. Concussion assessment and return to play guidelines. *11th Annual Triangle Sports Medicine Symposium*, Raleigh, NC. (December 10, 2005).

Mihalik JP. Traumatic facial injury in a high school soccer player. *University of Pittsburgh Medical Center 6th Annual Current Issues in Athletic Training*, Pittsburgh, PA. (March 27, 2005).

TEACHING RECORD

A. Curricular Experience – Undergraduate

EXSS 175 — Human Anatomy
Spring 2006 (116 students)

EXSS 188 — Emergency Care
Summer 2008 (15 students)

EXSS 273 — Research Methods in Exercise and Sport Science

Fall 2010 (58 students), Spring 2011 (45), Maymester 2011 (25), Fall 2011 (53),
Spring 2012 (42), Maymester 2012 (20), Fall 2012 (63), Spring 2013 (52), Maymester 2013 (20),
Spring 2014 (55)

EXSS 275L — Human Anatomy Cadaver Laboratory
Fall 2004 (13 students), Summer 2006 (11), Summer 2007 (7), Summer 2008 (6)

EXSS 380 — Neuromuscular Control & Learning
Spring 2010 (54 students)

EXSS 385 — Biomechanics of Sports
Fall 2010 (47 students), Fall 2011 (50), Fall 2012 (51), Fall 2013 (54), Fall 2014 (54), Fall 2015
(56), Fall 2016 (52)

EXSS 396 — Independent Study
Spring 2012 (1 student), Fall 2014 (1)

EXSS 693H/694H — Senior Honors Thesis
See Honors thesis advising and committee membership in Sections H and I

B. Curricular Experience – Graduate

EXSS 700 — Applied Statistics and Research Methods in Exercise and Sport Science
Fall 2015 (10 students), Fall 2016 (11)

EXSS 705 — Applied Statistics and Research Methods Laboratory
Spring 2014 (9 students)

EXSS 738 — Laboratory Techniques in Sports Medicine
Spring 2010 (9 students)

EXSS 993 — Master's Research and Thesis
See Graduate thesis advising and committee membership in Sections F and G

C. Curricular Experience – Doctoral

IHMS 870 — Doctoral Development Seminar
Fall 2013 (10 students), Fall 2015 (13), Spring 2016 (12), Fall 2016 (18)

HMSC 877 — Independent Study in Human Movement Science
Fall 2013 (1 student), Fall 2014 (1), Fall 2015 (1)

EXSS 890 — Special Topics: Advanced Statistics and Programming with SAS/Matlab
Spring 2012 (2 students), Fall 2013 (1), Spring 2017 (3)

IHMS 994 — Doctoral Research and Dissertation
See Doctoral dissertation advising and committee membership in Sections D and E

D. Doctoral Dissertation Committees – Advisor (2)

Teel EF. The effect of an active rehabilitation protocol on concussion recovery time. *Interdisciplinary Curriculum in Human Movement Science, UNC-Chapel Hill*. May 2017.

Lynall RC. Functional movement deficits following sport-related concussion. *Interdisciplinary Curriculum in Human Movement Science, UNC-Chapel Hill*. August 2016.

E. Doctoral Dissertation Committees – Member (7)

Clark MD. The role of repetitive head trauma in early cognitive decline and frontolimbic connectivity. *Interdisciplinary Curriculum in Human Movement Science, UNC-Chapel Hill*. August 2017 (Anticipated).

Fraser MA. The associations between sport-related concussion, football seasons played, head impact biomechanics, and neurobehavioral measures in high school and collegiate athletes. *Interdisciplinary Curriculum in Human Movement Science, UNC-Chapel Hill*. December 2016.

Littleton AC. The effects of physical and cognitive activity levels post-concussion on recovery. *Interdisciplinary Curriculum in Human Movement Science, UNC-Chapel Hill*. August 2015.

Allison M. Head injury biomechanics in youth hockey players: Enhancing data analysis for a helmet-based accelerometer system. *Department of Bioengineering, University of Pennsylvania*. May 2015.

Kerr ZY. Measurement of the validity and reliability of self-reported recall of concussion history: Factors associated with recall and disclosure in former athletes. *Department of Epidemiology, UNC-Chapel Hill*. May 2014.

Valdez D. The effect of immediate and delayed feedback on knowledge and performance development in Athletic Therapy students during a simulated cardiac emergency. *Department of Medical Science, University of Calgary*. December 2013. [External Reviewer]

Schmidt JD. The influence of the cervical musculature, visual performance, and anticipation on head impact severity in high school and collegiate. *Interdisciplinary Curriculum in Human Movement Science, UNC-Chapel Hill*. August 2013.

F. Master's Thesis Committees – Advisor (12)

Department of Exercise and Sport Science at UNC-Chapel Hill, unless otherwise specified

Gagnon-Joseph P. Effects of head impact biomechanics on visual-motor performance over the course of a collegiate football season. May 2018 (Anticipated).

Ford JM. Movement assessment as a predictor of head impact biomechanics. May 2017.

Lennon AR. Concurrent validity of three commercially available head impact monitoring systems. May 2015.

Smith LM. The association between optimism and psychological health factors in collegiate athletes. May 2015.

Stucker JC. Head acceleration and dehydration in soccer. May 2015.

Talarico MK. The effect of concussion on dynamic postural control of a single leg squat. *Department of Biomedical Engineering, UNC-Chapel Hill*. May 2015.

Gilrein TE. Reliability of visual performance assessments and the effect of concussion on visual measures. May 2014.

Lenhardt CS. The effect of shoulder pad removal technique and equipment removal training on cervical spine motion, time, and difficulty. May 2014.

Harpham JA. A study of visual and sensory performance, collision anticipation, and head impact biomechanics in college football players. May 2013.

Lengas E. The effect of sleep quality and sleep quantity on concussion assessment. May 2012.

Baum MJ. The influence of psychological distress on baseline concussion measures. May 2012.

Ocwieja KE. The effect of play type and field location of impact on biomechanical measures of impact severity. May 2011.

G. Master's Thesis Committees – Member (28)

Department of Exercise and Sport Science at UNC-Chapel Hill, unless otherwise specified

Kostogiannes V. Relationships among lower extremity movement patterns, visual performance, and head impact biomechanics in high school American football players. May 2018 (Anticipated).

White J. An integrative intervention improves lower extremity range of motion during fatigue in the prevention of anterior cruciate ligament rupture. May 2018 (Anticipated).

Mackrell CM. Somatosensory function in individuals with and without a history of concussion. August 2017.

Davis MP. The effect of men's lacrosse equipment on chest compression and ventilation delivery. December 2016.

Kingsley PN. The effect of demographics on head impact biomechanics in youth football players. *Department of Physical Education, University of South Carolina*, May 2015.

Pierce AF. The effect of knowledge of concussion and aggression on head impact biomechanics across sexes in youth ice hockey players. August 2013.

Doran A. A content analysis of NCAA Division I track & field teams' Twitter usage: Defining best practices in social media marketing. May 2013.

Ingriselli JM. Neurocognitive and balance performance following a dual-task training intervention in healthy collegiate recreational athletes. May 2012.

Palanjan S. A study to identify the potential factors that influence students to attend college football games at UNC. May 2012.

Fratarcangeli D. The head of the issue: An exploratory study of the perceptions and the composition of NCAA Division I concussion management plans. May 2012.

Lynall RC. Comparing neurologic testing to balance and equilibrium during post-concussion recovery. *School of Kinesiology and Recreation, Illinois State University*, May 2012.

Littleton AC. The effects of attention deficit hyperactivity disorder (ADHD) and stimulant medication on clinical measures of concussion. May 2011.

Kallman AL. Influence of estrogen on cytokine response to prolonged treadmill running. May 2011.

Allen EB. The effect of lacrosse helmet fit on cervical spine movement during a prone log roll. May 2010.

Askey L. The effects of the Full90 headband on neurocognitive function and balance performance following an acute bout of soccer heading. May 2010.

Friedline A. Effects of weight-cutting tactics on clinical concussion measures in Division I collegiate wrestlers. May 2010.

Sumrall AZ. Dehydration, core body, wet bulb globe, and in helmet temperature are predictors of impact magnitude. May 2010.

Gysland SM. The cumulative effect of subconcussive impacts on clinical measures of concussion in Division I collegiate football players. May 2009.

Toler JD. Alternative techniques to gain emergency airway access. May 2009.

Ross LM. Procedural reaction time and balance performance during a dual or single task in healthy collegiate students. May 2008.

Beard JR. Cervical spine motion in college ice hockey players during a log roll technique. May 2007.

Fox ZG. The effect of aerobic and anaerobic exercise protocols on postural control. May 2007.

Kontos D. Validity, practice effects, and age discrimination of ImpACT and traditional paper-pencil neuropsychological tests. May 2007.

Conner LE. The relationship between humeral rotation and scapular tipping. May 2006.

Libby JJ. The comparison of complex and compound training programs on volleyball players. May 2006.

McCaffrey MA. Balance and neurocognitive performance in collegiate football players following high-magnitude head impacts. May 2006.

Lynch SS. The effects of an exercise intervention on forward head and rounded shoulder postures in elite swimmers. May 2005.

Patel AV. The effects of dehydration on symptomatology, neuropsychological performance, and postural stability. May 2005.

H. Undergraduate Honors Thesis Committees – Advisor (6)

Morrisroe KA. The effect of headgear on visual and sensory performance outcomes in female lacrosse players. May 2017.

Kramer MR. Effect of athletic headgear on vision and sensory. May 2016.

Ikoma M. Reliability of neurocognitive measures among high and low cognitive performers. May 2014.

Asken BME. A comparison of various clinical measures of visual performance in healthy participants. May 2013.

Moise KF. The effects of anticipation and player involvement in body collision on head impact biomechanics in college football players. May 2012.

Brody NG. The reliability of three Nintendo Wii balance games: A dual-task approach to measuring postural control. May 2011.

I. Undergraduate Honors Thesis Committees – Member (5)

Cabell GH. The test-retest reliability and exercise-driven changes of UCH-L1 in healthy, recreationally active college students. May 2016.

Champagne A. A study of the effects of football exposure and concussion history on cerebral white matter integrity and structural connectivity in retired National Football League and college football players. May 2015.

Pratson LF. An in-vivo biomechanical study of collegiate football players: The inter-instrument reliability of the X2Impact mouthpiece and the Head Impact Telemetry System. May 2012.

Hemp KA. Sex differences on common neurocognitive tests in competitive soccer players. May 2011.

Gonzalez JA. An examination of the effects of mental fatigue on grip strength. May 2010.

GRANTS

A. Federal Grants/Contracts

A1. Pending/In Review (5)

08/01/17 – 09/30/17 **Mihalik JP**
Special Operations Evo Pro Initiative: A pilot study

07/01/17 – 12/31/17 **Mihalik JP**
Automated olfactometer for standardized measures of olfactory function
National Institutes of Health Small Business Innovation Research (SBIR) Program (Prime: Olfaxis LLC)
Role: Site Principal Investigator (9%)
Total Award: \$219,567 to Olfaxis LLC
DC: \$30,850 F&A: \$0 Total: \$30,850

09/01/17 – 08/31/22 **Mihalik JP**
Head impact exposure in youth sports: A data infrastructure and instrumentation research resource
National Institutes of Health—National Institute of Child Health and Human Development (NICHD) R24 (Prime: Wake Forest University Health System)
Role: Site Principal Investigator (8%)
DC: \$325,000 F&A: \$169,000 Total: \$494,000

09/01/17 – 08/31/20 Kerr ZY, Register-Mihalik JK, Marshall SW, Guskiewicz KM, **Mihalik JP**, & Go V
Popular opinion leaders as sports concussion prevention strategy in middle schools
Centers for Disease Control and Prevention
Role: Co-Investigator (8%)
DC: \$1,072,364 F&A: \$577,532 Total: \$1,649,896

09/15/17 – 09/14/19 **Mihalik JP**
CARE 2.0: A prospective, longitudinal study of the intermediate and cumulative effects of concussion and repetitive head impact exposure in NCAA student-athletes and U.S. Military Service Academy members
Department of Defense & National Collegiate Athletic Association (Prime: University of Michigan)
Role: Site Principal Investigator (10%)
DC: \$182,772 F&A: \$47,520 Total: \$230,292 (UNC subaward)

09/15/17 – 09/14/19 **Mihalik JP**
CARE 2.0: A prospective, longitudinal study of the intermediate and cumulative effects of concussion and repetitive head impact exposure in NCAA student-athletes and U.S. Military Service Academy members
Department of Defense & National Collegiate Athletic Association (Prime: Medical College of Wisconsin)
Role: Site Principal Investigator (15%)
DC: \$614,089 F&A: \$148,080 Total: \$762,169 (UNC subaward)

A2. Current (4)

04/01/15 – 03/31/20 Pinton G, **Mihalik JP**, & Bass CR
Shear shock wave propagation in the brain: High frame-rate ultrasound imaging, characterization, and simulations

National Institutes of Health-National Institute of Neurological Disorders and Stroke (NIH-NINDS)

5R01NS091195-01-02

Role: Co-Investigator (5%)

DC: \$1,250,000

F&A: \$535,796

Total: \$1,785,796

08/01/14 – 07/31/19 Marshall SW et al.

UNC Injury Prevention Research Center (Project 2: Innovative behavior modification strategies to reduce mild traumatic brain injury risk in high school football athletes)

Centers for Disease Control and Prevention (CDC)

2R49CE002479-01

Role: Co-Investigator; Project 2 Co-Principal Investigator (11%)

Total Award: \$4,499,000 to UNC Injury Prevention Research Center

DC: \$495,652

F&A: \$142,330

Total: \$637,982 (Project 2)

08/01/14 – 09/14/17 Guskiewicz KM & **Mihalik JP**

NCAA-DOD Grand Alliance: Concussion Assessment, Research and Education (CARE) Consortium

Department of Defense & National Collegiate Athletic Association (Prime: University of Michigan)

W81XWH-14-2-0151 (Prime Award #)

Role: Site Co-Principal Investigator (5%)

DC: \$349,965

F&A: \$90,991

Total: \$440,956 (UNC subaward)

11/01/14 – 09/14/17 Guskiewicz KM & **Mihalik JP**

NCAA-DOD Grand Alliance: Advanced Research Core (ARC)

Department of Defense & National Collegiate Athletic Association (Prime: Medical College of Wisconsin)

W81XWJ-14-2-0151 (Prime Award #)

Role: Site Co-Principal Investigator (5%)

DC: \$548,593

F&A: \$132,840

Total: \$681,433 (UNC subaward)

A3. Completed (5)

06/01/16 – 05/31/17 **Mihalik JP**

Tracking Neurological Function in Warrior-Athletes: A Multidisciplinary Approach

United States Army Special Operations Command

H92236-17-P-5459

Role: Principal Investigator (1%)

DC: \$11,576

F&A: \$6,424

Total: \$18,000

07/31/16 – 07/30/17 **Mihalik JP**, Marshall SW, Hackney AC, Appelbaum LG, Bass CR, Guskiewicz KM, Shi F, & Shen D

Tracking Neurological Function in Warrior-Athletes: A Multidisciplinary Approach

United States Army Special Operations Command

H92236-16-P-5411

Role: Principal Investigator (32%)

DC: \$169,279

F&A: \$80,245

Total: \$249,524

07/01/14 – 06/30/15 **Mihalik JP**, DeLellis SM, Marshall SW, Hackney AC, Guskiewicz KM, McCrea M, Appelbaum LG, Bass CR, Lutz R, Shi F, & Shen D

Tracking Neurological Function in Warrior-Athletes: A Multidisciplinary Approach

United States Army Special Operations Command—Defense Advanced Research Projects Agency

H92236-14-P-5193

Role: Principal Investigator (5%)

DC: \$380,980 F&A: \$155,408 Total: \$536,388

07/01/13 – 09/30/14 Guskiewicz KM & **Mihalik JP**

The utility of the Display Enhanced Testing for Concussion Technology (DETECT) in the screening and management of potential concussion injuries

Department of Defense/Army Research Office (Emory University subcontract)

Role: Co-Investigator (0%)

Total Award: \$1,500,000 to Emory University (Co-PIs: Espinoza T & Phelps S)

DC: \$58,289 F&A: \$28,586 Total: \$86,875 (UNC subaward)

07/01/12 – 06/30/14 **Mihalik JP** & Guskiewicz KM

Scientific assessment support for the SOTF enhanced traumatic brain injury surveillance program.

United States Army Special Operations Command

H92236-12-P-5253

Role: Principal Investigator (0%)

DC: \$139,200 F&A: \$0 Total: \$139,200

A4. Not Funded (16)

05/01/17 – 04/30/18 Campbell KR[†] & **Mihalik JP**

The effects of head impact exposure on neurocognitive function and blood flow changes to high school football players over the course of one football season

Canadian Institutes of Health Research

RN# 310883

Role: Sponsor (0%)

DC: \$26,522 F&A: \$0 Total: \$26,522 (\$35,000 CDN)

09/01/16 – 08/31/21 Blackburn JT, Pietrosimone BG, Wikstrom EA, **Mihalik JP**, & Padua DA

Warfighter Orthopedic Research and Clinical Care Consortium

Department of Defense (Prime Funding Agency)

Role: UNC Co-Investigator (5%)

Total Award: \$18,000,000 to University of Kentucky (PI: Abt J)

DC: \$ 1,138,138 F&A: \$ 520,516 Total: \$ 1,658,654 (UNC subaward)

09/01/15 – 08/31/17 **Mihalik JP**, Marshall SW, Guskiewicz KM, Hackney AC, & Shi F

Advanced Research Core in High School (ARCHiS) Study

National Institutes of Health-National Institute of Neurological Disorders and Stroke (NIH-NINDS)

1R21NS095300-01

Role: Principal Investigator (15%)

DC: \$275,000 F&A: \$143,000 Total: \$418,000

09/01/15 – 08/31/17 Teel EF[†], **Mihalik JP**, Guskiewicz KM, & Register-Mihalik JK

Can the ACTIVE rehabilitation shorten concussion recovery?

National Institutes of Health–National Institute of Neurological Disorders and Stroke (NIH-NINDS)

1F31NS095663-01

Role: Sponsor (0%)

DC: \$78,712 F&A: \$0 Total: \$78,712

07/01/14 – 06/30/17 **Mihalik JP**, DeLellis SM, Lutz R, Choi YS, Hackney AC, Marshall SW, Guskiewicz KM, Shi F, & Shen DG

Baseline neurocognitive assessment and traumatic brain injury (TBI) evaluation: Retired operator study

Congressionally-Directed Medical Research Program (CDMRP)

W81XWH-14-DMRDP-CRI-IRA-MTI

Role: Principal Investigator (11%)

Total Award: \$999,995 to United States Army Special Operations Command

DC: \$411,935 F&A: \$191,958 Total: \$603,893 (UNC subaward)

- 07/10/15 – 06/30/17 Appelbaum LG, **Mihalik JP**, & Mitroff SR
 Intersecting vision performance with concussion assessment: A secondary analysis
National Institutes of Health–National Eye Institute (NIH-NEI)
 1R21EY025293-01
 Role: Co-Investigator (10%)
 Total Award: \$442,960 to Duke University
 DC: \$56,142 F&A: \$24,018 Total: \$80,160 (UNC subaward)
- 09/01/14 – 08/31/16 Lynall RC[†], **Mihalik JP**, Guskiewicz KM, & Marshall SW
 Deficits during tandem gait associated with sport-related traumatic brain injury
National Institutes of Health–National Institute of Neurological Disorders and Stroke (NIH-NINDS)
 1F31NS089353-01
 Role: Sponsor (0%)
 DC: \$77,025 F&A: \$0 Total: \$77,025
- 07/01/14 – 06/30/16 Reed N, Fait P, Bussi eres AE, Christie BR, DeMatteo CA, Gagnon I, **Mihalik JP**,
 Montelpare WJ, Mrazik M, van Donkelaar P, & Zemek R
 An International Pediatric Mild Traumatic Brain Injury Symposium: Building Capacity, Knowledge and
 Momentum
Canadian Institutes of Health Research (Operating Grant: Knowledge to Action)
 RN0000221405–322290
 Role: Co-Applicant (0%)
 Total Award: \$182,307 CDN to Holland Bloorview Kids Rehabilitation Hospital
 DC: \$0 F&A: \$0 Total: \$0
- 07/01/14 – 06/30/16 **Mihalik JP**, Appelbaum LG, Wang L, Marshall SW, Hopfinger JB, & Kucera KL
 Effects of traumatic brain injury on the neurophysiology of vision performance
National Institutes of Health–National Institute of Neurological Disorders and Stroke (NIH-NINDS)
 1R21NS088954-01
 Role: Principal Investigator (20%)
 DC: \$305,283 F&A: \$109,221 Total: \$414,504
- 07/01/14 – 06/30/16 **Mihalik JP**, Giovanello KG, Marshall SW, Guskiewicz KM, Hackney AC, & Gao
 W
 Repetitive subconcussive impact and neurological health in young football players
National Institutes of Health–National Institute of Neurological Disorders and Stroke (NIH-NINDS)
 1R21NS086640-01
 Role: Principal Investigator (20%)
 DC: \$275,000 F&A: \$124,620 Total: \$399,620
- 07/01/13 – 06/30/17 Guskiewicz KM, **Mihalik JP**, Smith JK, Elbogen E, & Hackney AC
 Association between repetitive traumatic brain injury and neuropsychological, neuroimaging, and blood
 biomarkers in military service members and elite-level athletes.
Department of Defense
 Role: Co-Investigator (12%)
 DC: \$1,872,907 F&A: \$624,570 Total: \$2,497,478 (UNC subaward)
- 07/01/13 – 06/30/16 Register-Mihalik JK, De Maio VJ, **Mihalik JP**, Guskiewicz KM, Bloom OJ, &
 Wooten JD
 A community-based approach to identify prognostic indicators and patient-centered outcomes for
 adolescent athletes with concussion
Patient-Centered Outcomes Research Institute
 Role: Co-Investigator (3%)
 Total Award: \$1,236,590 to WakeMed Health & Hospitals
 DC: \$31,506 F&A: \$12,602 Total: \$44,108 (UNC subaward)

07/01/12 – 06/30/15 Petel O, **Mihalik JP**, Ouellet S, Bouamoul A, & Waliiko T
 Novel imaging technique for in situ strain measurements applicable to non-penetrating injuries
United States Army Medical Research and Materiel Command (BAA 12-1)
 Role: Co-Investigator (15%)
 Total Award: \$1,200,000 to Dynamic Research Innovations, Inc.
 DC: \$33,239 F&A: \$15,955 Total: \$49,194 (UNC subaward)

07/01/11 – 06/30/15 Guskiewicz KM, Marshall SW, Register-Mihalik JK, Kaufer D, **Mihalik JP**, et al.
 A prospective study of dual task rehabilitation interventions for treating individuals with traumatic brain injury
Department of Defense (Congressionally-Directed Medical Research Program—CDMRP)
 Role: Co-Investigator (15%)
 DC: \$1,999,902 F&A: \$899,655 Total: \$2,899,557

07/01/11 – 06/30/14 **Mihalik JP**, De Maio VJ, Guskiewicz KM, & Marshall SW
 Developing a clinical decision rule for the management of sport-related concussion
National Institutes of Health (NIH)
 1R01HD069223-01
 Role: Principal Investigator (25%)
 DC: \$922,853 F&A: \$270,011 Total: \$1,192,864

01/01/11 – 12/31/13 Guskiewicz KM, Padua DA, Marks BL, **Mihalik JP**, & Whitton MC
 Major Research Instrumentation: Validation of a virtual reality environment to identify and treat neurological and musculoskeletal injury
National Science Foundation
 Role: Senior Personnel (0%)
 DC: \$519,734 F&A: \$30,160 Total: \$549,894

B. Non-Federal Extramural Funding

B1. Pending/In Review (2)

03/01/18 – 02/28/19 **Mihalik JP** & Ford CB[†]
 Anticipating the hit: Visual attention's role in predicting and protecting athletes from concussion
National Operating Committee on Standards for Athletic Equipment (NOCSAE)
 Role: Co-Principal Investigator (7%)
 DC: \$50,000 F&A: \$10,000 Total: \$60,000

03/01/17 – 02/28/18 **Mihalik JP** & Wasserman EB[†]
 Examination of the Lifecycle of Protective Helmets
National Operating Committee on Standards for Athletic Equipment (NOCSAE)
 Role: Co-Principal Investigator (8.3%)
 DC: \$26,629 F&A: \$4,935 Total: \$31,564

B2. Current (4)

03/01/16 – 02/28/19 Register-Mihalik JK, Guskiewicz KM, Marshall SW, McCulloch K, & **Mihalik JP**
 Management and treatment of sport-related concussion: Early multidimensional rehabilitation versus enhanced graded exercise
National Football League Foundation
 Role: Co-Investigator (5%)
 DC: \$2,442,809 F&A: \$157,148 Total: \$2,599,997

07/01/16 – 06/30/17 Teel EF[†] & **Mihalik JP**

07/01/12 – 12/31/13 Swartz EE, **Mihalik JP**, & Decoster LC
Football helmet, facemask, and shoulder pad designs: Implications for acute airway and cardiovascular care in medical emergencies

National Football League Charities

Role: Co-Investigator (11%)

Total Award: \$62,521 to University of New Hampshire

DC: \$13,114

F&A: \$0

Total: \$13,114 (UNC subaward)

03/01/12 – 02/28/14 **Mihalik JP**, Guskiewicz KM, Marshall SW, & Stevens JR

The effect of hyperbaric oxygen therapy on recovery time of sport-related traumatic brain injuries: A double blind randomized clinical trial

National Operating Committee on Standards for Athletic Equipment

Role: Principal Investigator (20%)

DC: \$166,066

F&A: \$31,045

Total: \$197,111

03/01/12 – 02/28/13 Register-Mihalik JK, Guskiewicz KM, Valovich McLeod TC, Linnan LA, **Mihalik JP**, Marshall SW, & Cantu RC

Understanding the influence of concussion education on knowledge, attitudes, and behaviors concerning concussion among youth athletes, coaches, and parents

National Operating Committee on Standards for Athletic Equipment

Role: Co-Investigator (2%)

DC: \$60,888

F&A: \$11,636

Total: \$72,524

02/01/11 – 06/30/14 **Mihalik JP**, Marshall SW, & Guskiewicz KM

Exploring the gender divide: A multi-faceted study of head impact biomechanics, neurocognitive function, and cervical muscle strength

National Operating Committee on Standards for Athletic Equipment (NOCSAE)

Role: Principal Investigator (25%)

DC: \$309,270

F&A: \$29,697

Total: \$338,967

08/01/11 – 12/31/12 Swartz EE, Decoster LC, & **Mihalik JP**

Football facemask, helmet, and shoulder pad equipment designs: Effects on acute airway and cardiovascular care in medical emergencies

Eastern Athletic Trainers' Association

Role: Co-Investigator (0%)

Total Award: \$7,986 to University of New Hampshire

DC: \$0

F&A: \$0

Total: \$0

10/01/10 – 09/30/11 Ocwieja KE[†] & **Mihalik JP**

The effect of play type and closing distance on the biomechanics of head impact severity

National Athletic Trainers' Association Research and Education Foundation

Role: Co-Principal Investigator (0%)

DC: \$999

F&A: \$0

Total: \$999

03/01/09 – 02/28/12 Guskiewicz KM, **Mihalik JP**, & Marshall SW

Prospective investigation of sport-related concussion: relationship between biomechanical, neuroanatomical, and clinical factors

National Operating Committee on Standards for Athletic Equipment (NOCSAE)

Role: Co-Principal Investigator (20%)

DC: \$236,475

F&A: \$39,558

Total: \$276,033

01/01/08 – 12/31/09 Guskiewicz KM, **Mihalik JP**, & Marshall SW

Prospective evaluation of head impacts in youth ice hockey: Part II

National Operating Committee on Standards for Athletic Equipment (NOCSAE)

Role: Co-Principal Investigator (50%)

DC: \$136,384 F&A: \$22,877 Total: \$159,261

06/01/09 – 05/31/10 **Mihalik JP**, Sumrall AZ[†], & Guskiewicz KM
An investigation of head impact biomechanics in the context of body and ambient temperature
Canadian Athletic Therapists Association (CATA)

Role: Principal Investigator (0%)
DC: \$1,480 F&A: \$0 Total: \$1,480

06/15/06 – 11/30/08 Montelpare WJ, Guskiewicz KM, **Mihalik JP**, et al.
A Prospective Analysis of Head Impacts Sustained in Bantam-Aged Minor Hockey Players
Ontario Neurotrauma Foundation (ONF)

2005-PREV-BANT-387
Role: Co-Investigator (50%)
Total Award: \$215,960 CDN to Lakehead University (PI: Montelpare WJ)
DC: \$101,339 F&A: \$0 Total: \$101,339

06/01/06 – 05/31/07 **Mihalik JP**, Petschauer MA, Malley C, & Flint F
Effectiveness of Cervical Spine Stabilization in Collegiate Ice Hockey Players
Canadian Athletic Therapists Association (CATA)

Role: Principal Investigator (0%)
DC: \$1,154 F&A: \$0 Total: \$1,154

B4. Not Funded (14)

03/01/17 – 02/28/19 Yang J, **Mihalik JP**, & Marshall SW
Sex differences in body collisions, head impacts, and concussions in boys' and girls' youth ice hockey
National Operating Committee on Standards for Athletic Equipment (NOCSAE)

Role: Co-Investigator (10%)
Total Award: \$330,000 to Nationwide Children's Hospital (PI: Yang J)
DC: \$125,000 F&A: \$25,000 Total: \$150,000 (UNC subaward)

03/01/16 – 02/28/18 **Mihalik JP**, Marshall SW, Guskiewicz KM, Hackney AC, & Shi F
Advanced Research Core in High School (ARCHiS) Study
National Operating Committee on Standards for Athletic Equipment (NOCSAE)

Role: Principal Investigator (15%)
DC: \$250,000 F&A: \$50,000 Total: \$300,000

02/16/15 – 07/15/17 Rhea C, Ross SE, Mihalik JP, & Guskiewicz KM
TBI Assessment of Readiness using a Gait Evaluation Test (TARGET): Development of a portable mTBI
screening device
UNC Research Opportunities Initiative

Role: Co-Investigator (5%)
Total Award: \$309,165 to UNC-Greensboro
DC: \$119,905 F&A: \$0 Total: \$119,905 (UNC subaward)

01/1/15 – 06/30/16 Lynall RC[†] & **Mihalik JP**
Tandem gait deficits following sport-related traumatic brain injury
Mid-Atlantic Athletic Trainers' Association

Role: Faculty mentor (0%)
DC: \$1,995 F&A: \$0 Total: \$1,995

07/01/14 – 06/30/15 Lynall RC[†] & **Mihalik JP**
Effect of soccer heading and head impact biomechanics on clinical measures of concussion
National Athletic Trainers' Association Research & Education Foundation

Role: Co-Principal Investigator (0%)
DC: \$2,499 F&A: \$0 Total: \$2,499

- 04/01/13 – 03/31/15 Marshall SW, Guskiewicz KM, & **Mihalik JP**
 Evaluation of helmet replacement program for youth football
National Operating Committee on Standards for Athletic Equipment
 Role: Co-Investigator (1%)
 DC: \$540,894 F&A: \$65,014 Total: \$605,909
- 01/01/13 – 12/31/22 Guskiewicz KM, Marshall SW, McCrea M, Bailes J, et al.
 Advancing the frontiers of research in professional football: Safeguarding the health of active and former NFL players
National Football League Players' Association
 Role: Co-Investigator; Project 3 Principal Investigator (20%)
 DC: \$91,318,918 F&A: \$8,449,022 Total: \$99,767,940
- 08/01/12 – 07/31/14 **Mihalik JP**, Guskiewicz KM, Marshall SW, & Stevens JR
 The effect of hyperbaric oxygen therapy on acute treatment of sport-related traumatic brain injuries: A double blind randomized clinical trial
National Athletic Trainers' Association Research & Education Foundation
 Role: Principal Investigator (5%)
 DC: \$49,987 F&A: \$7,498 Total: \$57,485
- 07/01/12 – 12/31/13 **Mihalik JP**, Guskiewicz KM, Marshall SW, & Stevens JR
 Acute treatment of sport-related concussion using hyperbaric oxygen therapy: A double blind randomized clinical trial
National Football League Charities
 Role: Principal Investigator (11%)
 DC: \$99,960 F&A: \$0 Total: \$99,960
- 08/01/12 – 07/31/16 Putukian M, **Mihalik JP**, & Guskiewicz KM
 The effect of head impact biomechanics on short- and long-term neurological status in collegiate men's and women's lacrosse and soccer players
National Collegiate Athletic Association
 Role: Co-Principal Investigator (7%)
 Total Award: \$400,000 to Princeton University
 DC: \$172,597 F&A: \$17,260 Total: \$188,502 (UNC subaward)
- 03/01/11 – 02/28/13 Arbogast KB, Grady M, Master CL, & **Mihalik JP**
 Concussion in youth hockey: Biomechanics, clinical outcomes, and recovery
National Operating Committee on Standards for Athletic Equipment (NOCSAE)
 Role: Co-Investigator (17%)
 Total Award: \$245,795 to Children's Hospital of Philadelphia
 DC: \$25,217 F&A: \$5,043 Total: \$30,260 (UNC subaward)
- 02/01/11 – 01/31/12 Marshall SW, Daniels J, **Mihalik JP**, & Guskiewicz KM
 Omega-3 intake and risk of head injury in children
National Operating Committee on Standards for Athletic Equipment (NOCSAE)
 Role: Co-Investigator (10%)
 DC: \$88,617 F&A: \$16,277 Total: \$104,894
- 07/01/09 – 06/30/10 Sumrall AZ[†], **Mihalik JP**, & Guskiewicz KM
 An investigation of head impact biomechanics in the context of body and ambient temperature
Gatorade Sports Science Institute
 Role: Co-Principal Investigator (0%)
 DC: \$3,500 F&A: \$0 Total: \$3,500
- 12/01/05 – 11/30/06 **Mihalik JP**, McMurray RG, & Guskiewicz KM

The effects of the menstrual cycle on clinical measures of concussion
Mid Atlantic Athletic Trainers' Association District III Research Grant Award
 Role: Principal Investigator (0%)
 DC: \$1,810 F&A: \$0 Total: \$1,810

C. Intramural Funding

C1. Pending/In Review (0)

None

C2. Current (0)

None

C3. Completed (5)

05/15/16 – 08/15/16 Teel EF[†] & **Mihalik JP**
 The effect of ACTIVE training on clinical and physiological outcomes in healthy and concussed college-aged participants
UNC-CH Graduate School Summer Fellowship
 Role: Co-Investigator (0%)
 DC: \$4,000 F&A: \$0 Total: \$4,000

01/01/15 – 12/31/15 **Mihalik JP** & Lynall RC[†]
 Acute tandem gait deficits following sport-related traumatic brain injury in high school athletes
UNC-Chapel Hill Junior Faculty Development Award
 Role: Principal Investigator (0%)
 DC: \$7,500 F&A: \$0 Total: \$7,500

07/01/14 – 06/30/15 **Mihalik JP**, Giovanello KS, & Carneiro KA
 Third Matthew Gfeller Sport-Related Neurotrauma Symposium
Arts & Sciences Grants for Interdisciplinary Initiatives
 Role: Principal Investigator (0%)
 DC: \$4,500 F&A: \$0 Total: \$4,500

03/01/11 – 02/28/12 Register-Mihalik JK, Guskiewicz KM, **Mihalik JP**, Giovanello K, & Marshall SW
 Refining a dual-task rehabilitation progress for mild traumatic brain injury
The North Carolina Translational and Clinical Sciences Institute
 Role: Co-Investigator (0%)
 DC: \$10,000 F&A: \$0 Total: \$10,000

07/01/03 – 06/30/04 **Mihalik JP**, Myers JB, Sell TC, Lephart SM, Collins MW, Lovell MR, et al.
 Postural Control Strategies Observed in Patients with Mild Head Injury
School of Health and Rehabilitation Sciences Research Development Fund
 Role: Principal Investigator (0%)
 DC: \$952 F&A: \$0 Total: \$952

C4. Not Funded (6)

09/01/17 – 08/31/18 **Mihalik JP**, Cools M, & Carneiro KA
 Transcranial Doppler ultrasound for evaluation of concussion
North Carolina Translational & Clinical Sciences Institute \$5K-\$50K Translational Research Matched Pilot Grants
 Role: Principal Investigator (0%)
 DC: \$50,000 F&A: \$0 Total: \$50,000

07/01/16 – 06/30/17 Teel EF[†] & **Mihalik JP**

Inter-Association Task Force for Preventing Sudden Death in Secondary School Athletics Programs, 2013

Inter-Association Task Force for Preventing Sudden Death in Collegiate Conditioning Sessions, 2012

J. Pat Evans Research Foundation

Research Committee Chair, July 2009 – Present

Mayo Clinic Sports Medicine Center Ice Hockey Summit II: Action on Concussion

Steering Committee, September 2012 – Present

B. Research service

Editorial board membership

Journal of Athletic Training, April 2015 – Present

Athletic Training and Sports Health Care, May 2008 – Present

ISRN Emergency Medicine, April 2011 – September 2013

Frontiers in Sports Neurology, April 2011 – September 2013

Journal peer reviewer

American Journal of Preventive Medicine

American Journal of Sports Medicine

Annals of Biomedical Engineering

ASTM Special Technical Publications

British Journal of Sports Medicine

Clinical Journal of Sports Medicine

Critical Care Medicine

Gait & Posture

International Journal of Sport Communication

International Journal of Sports Medicine

Journal of Athletic Training

Journal of Special Operations Medicine

Journal of Sport Rehabilitation

Journal of the ASTM International

Medicine & Science in Sports & Exercise

Neurosurgery

Pediatrics

The Physician and Sportsmedicine

Grant reviewer

J. Pat Evans Research Foundation

National Athletic Trainers' Association Research and Education Foundation

National Operating Committee on Standards for Athletic Equipment (NOCSAE)

Natural Sciences and Engineering Research Council of Canada (NSERC)

C. Within UNC-Chapel Hill

Laboratory leadership

Co-Director, Matthew Gfeller Sport-Related Traumatic Brain Injury Research Center, 2011 –

Director, Exercise and Sport Science Cadaver Anatomy Laboratory, 2010 – 2017

Departmental service

Facilities Committee, 2010 – Present

Blyth Lecture Committee, 2011 – 2016

Search Committee, Sport epidemiology faculty position, 2015 – 2016
Search Committee, Sport Administration Lecturer/Adviser, 2013 – 2014
Co-Chair, HMSC Director Search Committee, 2013
Chair Nomination Committee, 2012 – 2013
Co-Chair, Ronald W. Hyatt Scholarship Committee, 2013
Search Committee, Sport epidemiology faculty position, 2012 – 2013
Program Chair, Matthew Gfeller Sport-Related Neurotrauma Symposium, 2010 – Present
Evaluator, Comprehensive Examinations, 2009 – Present
Patrick Earey Award Selection Committee, 2011 – 2013
Scholar Athlete Award Selection Committee, 2012 – 2013

University service

Psychology and Neuroscience User Group for Phase III Science Complex Planning, 2017 – Present
Executive Advisory Committee, Neuroscience Major Proposal, 2017 – Present
Faculty Information Technology Advisory Panel (FITAP), 2014 – Present
College of Arts & Sciences Conflict of Interest Committee, 2012 – Present
Graduate School Impact Awards Selection Committee, 2012
Faculty Council, Runner-Up, Arts & Sciences Non-Tenured, 2011
Graduate Student Representative to the Associate Vice Chancellor for University Relations (Carolina Engagement Council), 2007 – 2009

D. Community engagement

Invited presentations (16)

Mihalik JP. College Athlete Safety Panel. *Sixth Annual College Sport Research Institute Conference on College Sport*, Chapel Hill, NC. (April 18, 2013).

Mihalik JP. Head games and Athletic Therapy. *Sheridan College*, Brampton, Ontario, Canada. (October 18, 2012).

Mihalik JP. Heads up on concussions. *Randolph Hospital Medical Series*, Asheboro, NC. (August 28 & September 18, 2012).

Mihalik JP. Finding an academic position. *Career Symposium for Graduate Students and Postdoctoral Research Fellows*, UNC-Chapel Hill, NC. (November 5, 2011).

Mihalik JP. Preparing youth for high velocity sports. *Rawlings Football ProtectEd Event*, St. Louis, MO. (August 6, 2011).

Mihalik JP. Advanced concussion management: Frontiers of research, and selected case studies. *Carolina Family Practice and Sports Medicine*, Raleigh, NC. (July 16, 2011).

Mihalik JP. Head injuries. *The Game Plan for Sports*, Chapel Hill, NC. (September 30, 2010).

Mihalik JP. Now that's using your head: The latest breakthroughs in concussion research. *WakeMed SportFit CME2010*, Raleigh, NC. (June 19, 2010).

Mihalik JP. Concussion in youth ice hockey: A coach's perspective. *2010 USA Hockey Level IV Coaching Certification Course*, Durham, NC. (May 13, 2010).

Mihalik JP. Head injury biomechanics. *2010 University of North Carolina Athletic Training Symposium*, Chapel Hill, NC. (February 27, 2010).

Mihalik JP. (2009). Current trends in concussion management: Driving the future of pediatric concussion research. *WakeMed Pediatric Grand Rounds*, Raleigh, NC. (February 18, 2009).

Mihalik JP. Sports-related concussion: Bridging the gap between research and clinical practice. *NATA Seminar at the 2007 National Sportscasters and Sportswriters Association Annual Awards Program*, Salisbury, NC. (April 28-29, 2007).

Mihalik JP & Guskiewicz KM. Kinesiology of the lower extremity. *The University of North Carolina Orthopaedic Residency Program Lecture Series*. Chapel Hill, NC. (May 11, 2006).

Mihalik JP. Current concepts in the management of sports-related head injuries. *The Western Pennsylvania Hospital Family Practice Residency Program Lecture Series*. Pittsburgh, PA. (June 21, 2004).

Mihalik JP. Orthopaedic and Sports Medicine Seminar. *Dunbar Medical Lecture Series*. Mississauga, ON, Canada. (Summer 2003).

Mihalik JP. Orthopaedic and Sports Medicine Seminar. *Dunbar Medical Lecture Series*. Mississauga, ON, Canada. (Summer 2002).

E. Selected media appearances

Recent high school football injuries reignite debate about safety
ABC11 News
URL: <http://abc11.com/2545409/>
October 17, 2017 (Television)

Why parents shouldn't clear kids from concussions

USA Today

URL: <http://www.usatoday.com/story/sports/columnist/nancy-armour/2017/02/28/north-carolina-parents-concussion-house-bill-116/98544558/>

March 1, 2017 (Print – National newspaper)

Not all concussion monitors work effectively, researchers say

CBS News (WNCN Raleigh affiliate)

URL: <http://wncn.com/2017/02/20/not-all-concussion-monitors-work-effectively-researchers-say/>

February 20, 2017 (Television)

Preventing pediatric trauma is the focus of new congressional caucus

Time Warner Cable News NY1

URL: <http://www.ny1.com/nyc/all-boroughs/news/2016/09/21/preventing-pediatric-trauma-is-the-focus-of-new-congressional-caucus.html>

September 22, 2016 (Television)

Surge in ER visits for injuries, concussions from soccer

WRAL News

URL: <http://www.wral.com/surge-in-er-visits-for-injuries-concussions-from-soccer/16006832/>

September 12, 2016 (Television)

I-Team: How dangerous is football for teens?

ABC11 Eyewitness News

URL: <http://abc11.com/sports/i-team-how-dangerous-is-football-for-teens/1200974/>

February 15, 2016 (Television)

Football and the brain

CBS 60 Minutes

URL: <http://www.cbsnews.com/news/football-and-the-brain-nfl-60-minutes/>

November 15, 2015 (Television)

Concussion research at UNC

Time Warner Cable News

URL:

<http://mms.tveyes.com/transcript.asp?StationID=8165&DateTime=11/14/2015%209:28:13%20PM&playclip=true>

November 14, 2015 (Television)

UNC youth ice hockey concussion research

Carolina Hurricanes Pre-Game Show on Fox Sports Carolinas

March 1-2, 2014 (Television—2-part series)

Concussion study

Football Saturdays on Raycom Sports

URL: <http://raycomsports.com/football-saturdays-in-the-south/>

August 3, 2013 (Television)

UNC leads way in concussion research

WRAL News

URL: <http://www.wralsportsfan.com/a-concussion-will-give-you-a-headache-/12109687/>

February 14, 2013 (Television and online)

Concussion? There's an app for that

UNC Spotlight Feature

URL: <http://www.unc.edu/spotlight/concussion-app>

March 5, 2012 (Posted to www.unc.edu as Spotlight Feature)

Youth hockey aims to curb concussion risk

Raleigh News & Observer

URL: <http://www.newsobserver.com/2011/12/19/1719682/youth-hockey-aims-to-curb-concussion.html>

December 19, 2011 (Print and Online media)

Experts say helmets are not cure-all

ESPN NFL

URL: <http://sports.espn.go.com/nfl/news/story?id=6685511>

June 20, 2011 (Online media)

App for mobile phones helps diagnose concussions

Fox News

URL: <http://www.foxnews.com/health/2011/06/03/app-for-mobile-phones-helps-diagnose-concussions/>

June 3, 2011 (Online)

Expert discusses advances in concussion research

National Collegiate Athletic Association News

URL: <http://www.ncaa.org/wps/wcm/connect/public/ncaa/resources/latest+news/2011/february/expert+discusses+advances+in+concussion+research>

February 8, 2011 (Online)

At the Mayo Clinic: Women's hockey, a most dangerous sport

New York Times Slap Shot: News from the hockey world

URL: <http://slapshot.blogs.nytimes.com/2010/10/19/at-the-mayo-clinic-womens-hockey-a-most-dangerous-game/>

October 19, 2010 (Online blog)

Bracing for blow may ward off brain injury

Paging Dr. Gupta

URL: <http://pagingdrgupta.blogs.cnn.com/2010/05/17/bracing-for-blow-may-ward-off-brain-injury>

May 17, 2010 (Online blog)

'Keep head up' hockey advice gains proof

CBC News

URL: <http://www.cbc.ca/m/rich/health/story/2010/05/16/hockey-boys-helmet-head-injury.html>

May 17, 2010 (Print media)

Offensive play: How different are dogfighting and football?

The New Yorker

URL: http://www.newyorker.com/reporting/2009/10/19/091019fa_fact_gladwell

October 19, 2009 (Print media)