

YVONNE M. GOLIGHTLY
Curriculum Vitae

PERSONAL

University of North Carolina
Gillings School of Global Public Health
Department of Epidemiology

Office:

Thurston Arthritis Research Center
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EDUCATION

Ph.D., Epidemiology, August 2010 University of North Carolina, Chapel Hill, NC <i>Substantive Area: Injury</i> <i>Dissertation: Osteoarthritis and Injury in the Knee and Hip</i>	2006-2010
M.S., Human Movement Science, May 2005 University of North Carolina, Chapel Hill, NC <i>Substantive Area: Advanced Orthopaedics/Biomechanics</i> <i>Thesis: Shoe Lift Therapy in Individuals with Limb Length Inequality and Low Back Pain</i>	2002-2005
B.S., Allied Health Science, Physical Therapy, June 1998 The Ohio State University, Columbus, OH	1994-1998

PROFESSIONAL EXPERIENCE

Research Experience

Associate Professor with Tenure, Epidemiology University of North Carolina, Chapel Hill, NC Faculty Affiliations: Thurston Arthritis Research Center, Injury Prevention Research Center, Human Movement Science Program University of North Carolina, Chapel Hill, NC	2021 - present
Adjunct Associate Professor, Department of Orthopaedics University of North Carolina, Chapel Hill, NC	2021 - present
Adjunct Associate Professor, Division of Physical Therapy University of North Carolina, Chapel Hill, NC	2021 - present
Assistant Professor, Epidemiology University of North Carolina, Chapel Hill, NC Faculty Affiliations: Thurston Arthritis Research Center, Injury Prevention Research Center, Human Movement Science Program University of North Carolina, Chapel Hill, NC	2016 - 2021

Adjunct Assistant Professor, Division of Physical Therapy University of North Carolina, Chapel Hill, NC	2016 - 2021
Co-Director of Research Grants Program Officer Osteoarthritis Action Alliance University of North Carolina, Chapel Hill, NC	2019-present 2014 – 2019
Research Assistant Professor, Epidemiology Faculty Affiliations: Thurston Arthritis Research Center, Injury Prevention Research Center, Human Movement Science Program University of North Carolina, Chapel Hill, NC	2012 – 2016
Interim Project Director Johnston County Osteoarthritis Project University of North Carolina, Chapel Hill, NC	2014– 2015
Postdoctoral Fellow Arthritis Foundation Postdoctoral Fellowship Award Thurston Arthritis Research Center, University of North Carolina, Chapel Hill, NC	2010 –2012
Graduate Student Trainee National Institutes of Health Arthritis and Immunology Training Grant (T32 – AR07416) Thurston Arthritis Research Center, University of North Carolina, Chapel Hill, NC Mentor: Dr. Joanne M. Jordan	2006 - 2010
Research Physical Therapist/ Research Assistant Health Services Research & Development: Osteoarthritis, Stroke, Amyotrophic Lateral Sclerosis Veterans Affairs Medical Center, Durham, NC	2003 - 2010
<u>Clinical Experience</u>	
Physical Therapist Veterans Affairs Medical Center, Durham, NC	2005 – 2009
Physical Therapist Physical Recovery, Durham, NC	2004 – 2005
Physical Therapist Rex Healthcare, Raleigh, NC	2003 – 2004
Physical Therapist Avante Physical Therapy, Inc., Cary, NC	2001 – 2002
Physical Therapist Jefferson Hospital, Pittsburgh, PA	1999 – 2001
HONORS	
Outstanding (top 5%) Reviewer for <i>Arthritis Care & Research</i>	2019
Outstanding (top 5%) Reviewer for <i>Arthritis Care & Research</i>	2018
Outstanding (top 5%) Reviewer for <i>Arthritis Care & Research</i>	2017

Outstanding Reviewer 2016, <i>Osteoarthritis and Cartilage</i>	2017
American College of Rheumatology/European League Exchange Program Award (<i>the first non-rheumatologist to receive this award</i>)	2016
Outstanding Reviewer 2015, <i>Osteoarthritis and Cartilage</i>	2016
Junior Faculty Development Award (co-PI with Amanda Nelson, MD, MSCR) University of North Carolina, Chapel Hill, NC	2014
Scholar in the UNC Clinical Translational Science Award-K12 Scholars Program (KL2) (NIH Clinical and Translational Science Awards) University of North Carolina, Chapel Hill, NC	2012
Awarded membership in the Young Investigators Initiative Grant Mentoring Program United States Bone and Joint Initiative, Rosemont, IL	2012
Delta Omega, Honorary in Public Health University of North Carolina, Chapel Hill, NC	2011
Arthritis Foundation Postdoctoral Fellowship Award Thurston Arthritis Research Center, University of North Carolina, Chapel Hill, NC	2010
Young Investigator Award Winner Osteoarthritis Biomarker Global Initiative Meeting, Bethesda, MD	2009
American College of Rheumatology Research and Education Foundation/Abbott Health Professional Graduate Student Research Preceptorship Awardee	2008
Robert Verhalen Endowed Scholarship in Injury Prevention and Trauma Management University of North Carolina, Chapel Hill, NC	2007
American College of Rheumatology Research and Education Foundation/Abbott Medical and Graduate Student Achievement Award	2007
Mary Clyde Singleton Art and Science Award University of North Carolina, Division of Physical Therapy, Chapel Hill, NC	2004
Golden Key National Honorary The Ohio State University, Columbus, OH	1998
Mortar Board Senior Honorary The Ohio State University, Columbus, OH	1997
Bucket & Dipper Junior Honorary The Ohio State University, Columbus, OH	1996
Mirrors Sophomore Honorary The Ohio State University, Columbus, OH	1995
Alpha Lambda Delta/Phi Eta Sigma Honorary The Ohio State University, Columbus, OH	1995

MEMBERSHIPS

Member, Osteoarthritis Research Society International	2009 - present
Member, Association of Rheumatology Professionals	2006 - present

BIBLIOGRAPHY

Book Chapters (Total = 4)

1. Curtis JR, **Golightly YM**, Saag KG. Broad Issues in the Approach to Rheumatic Disease, Chapter 34: Clinical Research Methods in Rheumatic Disease. In: Kelley and Firestein's Textbook of Rheumatology (11th Edition). 2021; pps. 495-509.
2. **Golightly YM**, Jordan JM, Saag KG. Broad Issues in the Approach to Rheumatic Disease, Chapter 31: Clinical Research Methods in Rheumatic Disease. In: Kelley and Firestein's Textbook of Rheumatology (10th Edition). 2017; pps. 475–485.
3. **Golightly YM**, Adams SB, Jr., Kraus VB. Chapter 25: Biomarkers of Post-Traumatic Arthritis. In: Post-Traumatic Arthritis: Pathogenesis, Diagnosis, and Management. New York: Springer. 2014; pps. 317-330.
4. **Golightly YM**, Jordan JM. Broad Issues in the Approach to Rheumatic Disease, Chapter 30: Principles of Epidemiology in Rheumatic Disease. In: Kelley's Textbook of Rheumatology, 9th edition. 2012; pps. 431-9.

Refereed Papers (Total = 119; 40 as first/senior* author, *italics* indicates student/mentee, *underlined italics* indicates a student/mentee for whom Dr. Golightly was primary advisor or senior author)

1. Gates LS, Perry TA, **Golightly YM**, Nelson AE, Callahan LF, Felson D, Nevitt M, Jones G, Cooper C, Batt ME, Sanchez-Santos MT, Arden NK. Recreational physical activity and risk of incident knee osteoarthritis: an international meta-analysis of individual participant-level data. *Arthritis & Rheumatology* [In press, accepted for publication 2021 Sep] (40 pages)
2. Keil LG, Nash AB, Stürmer T, **Golightly YM**, Lin FC, Stone JD, Sanders JO, Louer CR. When is a growth-friendly strategy warranted? A matched comparison of growing rods versus primary posterior spinal fusion in juveniles with early-onset scoliosis. *Journal of Pediatric Orthopedics* [In press, accepted for publication 2021 Aug] (28 pages)
3. Wellsandt E, Emory J, **Golightly YM**, Dudley AT, Michaud K, Tao MA, Manzer MN, Sajja BR. Individual and Cumulative Measures of Knee Joint Load Associate with T2 Relaxation Times of Knee Cartilage in Young, Uninjured Individuals: A Pilot Study. *The Knee* 2021 Oct;32:19-29
4. *Shiue KY*, Dasgupta N, Naumann RB, Nelson AE, **Golightly YM***. Sociodemographic and Clinical Predictors of Prescription Opioid Use in a Longitudinal Community-Based Cohort Study of Middle-Aged and Older Adults. *Journal of Aging and Health* [In press, accepted for publication 2021 Jul] (28 pages)
5. *Shmuel S*, Pate V, Pepin MJ, Bailey JC, **Golightly YM**, Hanson LC, Stürmer T, Naumann RB, Gnjjidic D, Lund JL. Effects of anticholinergic and sedative medication use on fractures: A self-controlled design study. *Journal of the American Geriatrics Society* [In press, accepted for publication 2021 Jun] (34 pages)
6. Brandt PD, Sturzenegger Varvayanis S, Baas T, Bolgioni AF, Alder J, Petrie KA, Dominguez I, Brown AM, Stayart CA, Singh H, Van Wart A, Chow CS, Mathur A, Schreiber BM, Fruman DA, Bowden B, Wiesen CA, **Golightly YM**, Holmquist CE, Arneman D, Hall JD, Hyman LE, Gould KL, Chalkley R, Brennwald PJ, Layton RL. A cross-institutional analysis of the effects of broadening trainee professional development on research productivity. *PLoS Biology* 2021 Jul 15;19(7):e3000956.
7. Nelson AE, Smith JA, Alvarez C, Arbeeveva L, Renner JB, Murphy LB, Jordan JM, **Golightly YM***, Duryea J. Associations between baseline and longitudinal semi-automated quantitative joint space width at the hip and incident hip osteoarthritis: Data from a community-based cohort. *Arthritis Care & Research* [In press, accepted for publication 2021 Jun] (28 pages)

8. **Golightly YM***, Smith-Ryan AE, Blue MNM, Alvarez C, Allen KD, Nelson AE. High Intensity Interval Training for knee osteoarthritis: A pilot study. *ACR Open Rheumatology* [In press, accepted for publication 2021 Jun] (29 pages)
9. Nelson AE, Hu D, Arbeevea L, Alvarez C, Cleveland RJ, Schwartz TA, Murphy LB, Helmick CG, Callahan LF, Renner JB, Jordan JM, **Golightly YM***. The prevalence of knee symptoms, radiographic, and symptomatic osteoarthritis at four time points. *ACR Open Rheumatology* [In press, accepted for publication 2021 May] (29 pages)
10. **Golightly YM***, Alvarez C, Arbeevea L, Cleveland RJ, Schwartz TA, Renner JB, Murphy LB, Callahan LF, Jordan JM, Nelson AE. Associations of comorbid conditions and transitions across states of knee osteoarthritis in a community-based cohort. *ACR Open Rheumatology* [In press, accepted for publication 2021 May] (32 pages)
11. Goode AP, Cleveland RJ, George SZ, Schwartz TA, Kraus VB, Renner JB, Gracely RH, DeFrate LE, Hu D, Jordan JM, **Golightly YM***. Predictors of lumbar spine degeneration and low back pain in the community: The Johnston County Osteoarthritis Project. *Arthritis Care & Research* [In press, accepted for publication 2021 May] (28 pages)
12. Allen KD, Thoma LM, **Golightly YM**. Epidemiology of osteoarthritis. *Osteoarthritis and Cartilage* [In press, accepted for publication 2021 Apr] (29 pages)
13. Beauchamp T, Arbeevea L, Cleveland RJ, **Golightly YM**, Hales DP, Hu DG, Allen KD. Accelerometer-based physical activity patterns and associations with outcomes among individuals with osteoarthritis. *Journal of Clinical Rheumatology* [In press, accepted for publication 2021 Apr] (22 pages)
14. Wellsandt E, Kallman T, **Golightly Y**, Podsiadlo D, Dudley A, Vas S, Michaud K, Tao M, Sajja B, Manzer M. Knee joint unloading and daily physical activity associate with cartilage T2 relaxation times 1 month after ACL injury. *Journal of Orthopaedic Research* [In press, accepted for publication 2021 Mar] (37 pages)
15. Coffman CJ, Arbeevea L, Schwartz TA, Callahan LF, **Golightly YM**, Goode AP, Huffman KM, Allen KD. Application of heterogeneity of treatment effect methods: exploratory analyses of a trial of exercise-based intervention for knee OA. *Arthritis Care and Research* [In press, accepted for publication 2021 Jan] (30 pages)
16. Flowers P, Nelson AE, Hannan MT, Hillstrom HJ, Renner JB, Jordan JM, **Golightly YM***. Foot osteoarthritis frequency and associated factors in a community-based cross-sectional study of White and African American adults. *Arthritis Care and Research* [In press, accepted for publication 2020 Aug] (18 pages)
17. **Golightly YM***, Gates L. Foot osteoarthritis: Addressing an overlooked global public health problem. *Arthritis Care & Research* 2021 Jun;73(6):767-769
18. Callahan LF, Cleveland RJ, Allen KD, **Golightly YM**. Racial/ethnic, socioeconomic and geographic disparities in knee and hip osteoarthritis. *Rheumatic Disease Clinics* 2021 Feb;47(1):1-20
19. *Shmuel S*, Pate V, Pepin MJ, Bailey JC, Hanson LC, Stürmer T, Naumman RB, **Golightly YM**, Gnjjidic D, Lund JL. Quantifying cumulative anticholinergic and sedative drug load among US Medicare Beneficiaries. *Pharmacoepidemiology Drug Safety* 2021 Feb;30(2):144-156
20. Smith-Ryan AE, Blue MNM, Anderson KC, Hirsch KR, Allen KD, Huebner JL, Muehlbauer MJ, Ilkayeva OR, Slentz CA, Kraus VB, Kraus WE, **Golightly YM***, Huffman KM. Metabolic and physiological effects of high intensity interval training in patients with knee osteoarthritis: a pilot and feasibility study. *Osteoarthritis and Cartilage Open* 2020 Dec; 2(4):100083

21. Master H, Neogi T, Callahan LF, Nelson AE, LaValley M, Cleveland RJ, **Golightly YM**, Thoma LM, Zhang Y, Voinier D, Christiansen MB, Jakiela JT, Nevitt M, Lewis CE, Frey-Law LA, White DK. The association between walking speed from short- and standard-distance tests with the risk of all-cause mortality among adults with radiographic knee osteoarthritis: Data from three large United States cohort studies. *Osteoarthritis and Cartilage* 2020 Dec;28(12):1551-1558
22. *Miller VE*, Chen DG, Barrett D, Poole C, **Golightly YM**, Sanders AE, Ohrbach R, Greenspan JD, Fillingim RB, Slade GD. Understanding the relationship between features associated with pain-related disability in people with painful temporomandibular disorder: an exploratory structural equation modeling approach. *Pain* 2020 Dec;161(12):2710-2719
23. *Emerson MA*, Troester M, **Golightly YM**, Tan X, Aiello AE, Reeder-Hayes KE, Olshan AF, Earp S. Developing an integrated understanding of access to care and tumor characteristics patterns by race and age in the Carolina Breast Cancer Study Phase III, 2008 – 2013. *Cancer* 2020 Nov 15;126(22):4957-4966
24. Scherzer ZA, Alvarez C, Renner JB, Murphy LB, Schwartz TA, Jordan JM, **Golightly YM***, Nelson AE. Effects of comorbid cardiovascular disease and diabetes mellitus on hand osteoarthritis, pain, and functional state transitions: The Johnston County Osteoarthritis Project. *Journal of Rheumatology* 2020 Oct 1;47(10):1541-1549
25. *Flowers PE*, Schwartz TA, Arbeeve L, **Golightly YM**, Pathak A, Cooke J, Gupta JJ, Callahan LF, Goode AP, Corsi M, Huffman KM, Allen KD. Racial differences in performance-based function and potential explanatory factors among individuals with knee osteoarthritis. *Arthritis Care and Research* 2020 Sep;72(9):1196-1204
26. Griesemer I, Vu MB, Callahan LF, Cleveland R, **Golightly YM**, Grimm K, Huffman K, Nelson AE, Rees J, Allen K. Developing a primary care-focused intervention to engage patients with osteoarthritis in physical activity: a stakeholder engagement qualitative study. *Health Promotion Practice* 2020 Aug 12, 1524839920947690
27. Goode AP, Cleveland RJ, George SZ, Kraus VB, Schwartz TA, Gracely RH, Jordan JM, **Golightly YM***. Different Phenotypes of Osteoarthritis in the Lumbar Spine Reflected by Demographic and Clinical Characteristics: the Johnston County Osteoarthritis Project. *Arthritis Care and Research* 2020 Jul;72(7):974-981
28. *Bjornstad EC*, Muronya W, Kamija M, Smith Z, Muthali CK, Gibson K, Mottl AK, Charles, A, Marshall SW, **Golightly YM**, Gower EW. Validity of urine NGALds® dipstick for acute kidney injury in a Malawian trauma cohort. *Kidney International Reports* 2020 Jul 25;5(10):1791-1798
29. *Shiue KY*, Cleveland RJ, Schwartz TA, Nelson AE, Kraus VB, Hannan MT, Hillstrom HJ, Goode AP, Flowers PPE, Renner, JB, Jordan JM, **Golightly YM***. Is the association between knee injury and knee osteoarthritis modified by the presence of general joint hypermobility? *Osteoarthritis and Cartilage Open* 2020 Jun; 2 (2): 100045
30. *Bjornstad EC*, Marshall SW, Mottl AK, Gibson K, **Golightly YM**, Charles A, Gower EW. Racial and health insurance disparities in pediatric acute kidney injury in the USA. *Pediatric Nephrology* 2020 Jun; 35 (6): 1085-1096
31. Allen KD, Vu MB, Callahan LF, Cleveland RJ, Gilbert AL, **Golightly YM**, Griesemer I, Grimm K, Hales DP, Hu DG, Huffman K, Nelson AE, Pathak A, Rees J, Rethorn ZD, Wandishin AE. Osteoarthritis Physical Activity Care Pathway (OA-PCP): Result of a feasibility trial. *BMC Musculoskeletal Disorders* 2020 May 16; 21 (1): 308.

32. Goode AP, Schwartz TA, Kraus VB, Huebner JL, George SZ, Cleveland RJ, Gracely R, Jimenez M, DeFrate LE, Chen J, **Golightly YM***, Jordan JM. Inflammatory, structural, and pain biochemical biomarkers may reflect radiographic disc space narrowing: The Johnston County Osteoarthritis Project. *Journal of Orthopedic Research* 2020 May; 38 (5): 1027-1037
33. Arbeevea L, Nelson AE, Alvarez C, Cleveland RJ, Allen KD, **Golightly YM**, Jordan JM, Callahan LF, Schwartz TA. An application of traditional and emerging methods for the joint analysis of repeated measurements with time-to-event outcomes in rheumatology. *Arthritis Care and Research* 2020 May; 72 (5): 615-621
34. Snyder EA, Alvarez C, **Golightly YM**, Renner JB, Jordan JM, Nelson AE. Incidence and Progression of Hand Osteoarthritis in a Large Community-Based Cohort: The Johnston County Osteoarthritis Project. *Osteoarthritis and Cartilage* 2020 Apr; 28 (4): 446-452.
35. *Bjornstad EC*, Muronya W, Smith ZH, Gibson K, Mottl AK, Charles A, Marshall SW, **Golightly YM**, Munthali CK, Gower EW. Incidence and Epidemiology of Acute Kidney Injury in a Pediatric Malawian Trauma Cohort: a Prospective Observational Study. *BMC Nephrology* 2020 Mar 14; 21 (1): 98
36. Arbeevea L, Mitchell BD, Jackson RD, Yau M, Ryan K, **Golightly YM**, Hannan MT, Nelson AE, Jordan JM, Hochberg MC. Genome-wide meta-analysis identified novel variant associated with Hallux Valgus. *Journal of Foot and Ankle Research* 2020 Mar 4; 13 (1): 11
37. *Emerson MA*, **Golightly YM**, Tan X, Aiello AE, Reeder-Hayes KE, Olshan AF, Earp HS, Troester MA. Integrating access to care and tumor patterns by race and age in the Carolina Breast Cancer Study, 2008-2013. *Cancer Causes and Control*. 2020 Mar; 31 (3): 221-230
38. Alvarez C, Cleveland RJ, Schwartz TA, Renner JB, Murphy LB, Jordan JM, Callahan LF, **Golightly YM***, Nelson AE. Comorbid conditions and the transition among states of hip osteoarthritis and symptoms in a community-based study: a multi-state time-to-event model approach. *Arthritis Research and Therapy*. 2020 Jan 20; 22 (1): 12
39. *Roos KG*, Kucera KL, **Golightly YM**, Myers JB, Rosamond WD, Marshall SW. Variability in the identification and reporting of overuse injuries among sport injury surveillance data collectors. *Athletic Training and Sports Health Care*. 2020 Jan; 12 (1): 31-39.
40. Stürmer T, Wang T, **Golightly YM**, Keil A, Lund JL, Jonsson Funk M. Methodological Considerations When Analyzing and Interpreting Real-world Data. *Rheumatology*. 2020 Jan 1; 59 (1): 14-25
41. *Shmuel S*, Lund JL, Alvarez C, Hsu CD, Palta P, Kucharska-Newton A, Jordan JM, Nelson AE, **Golightly YM***. Polypharmacy and Incident Frailty in a Longitudinal Community-based Cohort Study. *Journal of the American Geriatrics Society*. 2019 Dec; 67 (12): 2482-2489
42. Callahan LF, Ambrose KR, Albright AL, Altpeter M, **Golightly YM**, Huffman KF, Nelson AE, Weisner SE. Public Health Interventions for Osteoarthritis - updates on the Osteoarthritis Action Alliance's efforts to address the 2010 OA Public Health Agenda Recommendations. *Clinical and Experimental Rheumatology*. 2019 Sep-Oct; 37 Suppl 120 (5): 31-39
43. Morgan OJ, Hillstrom HJ, Ellis SJ, **Golightly YM**, Russell R, Hannan MT, Deland JT, Hillstrom R. Osteoarthritis in England: Incidence Trends from National Health Service Hospital Episode Statistics. *ACR Open Rheumatology*. 2019 Aug 19; 1 (8): 493-498
44. *Gullo TR*, **Golightly YM**, Cleveland RJ, Renner JB, Callahan LF, Jordan JM, Kraus VB, Nelson AE. Defining multiple joint osteoarthritis, its frequency and impact in a community-based cohort. *Seminars in Arthritis and Rheumatism* 2019 Jun; 48 (6): 950-957

45. Gates LS, Arden NK, Hannan MT, Roddy E, Gill TK, Hill CL, Dufour AB, Rathod-Mistry T, Thomas MJ, Menz HB, Bowen CJ, **Golightly YM***. Prevalence of foot pain across an international consortium of population based cohorts. *Arthritis Care and Research* 2019 May; 71 (5): 661-670
46. **Golightly YM***, Hannan MT, Nelson AE, Hillstrom HJ, Cleveland RJ, Kraus VB, Schwartz TA, Goode AP, Flowers P, Renner JB, Jordan JM. Relationship of joint hypermobility with ankle and foot radiographic osteoarthritis and symptoms in a community-based cohort. *Arthritis Care and Research* 2019 Apr; 71 (4): 538-544
47. *Gullo TR*, **Golightly YM**, Flowers P, Jordan JM, Renner JB, Schwartz TA, Kraus VB, Hannan MT, Cleveland RJ, Nelson AE. Joint hypermobility is not positively associated with prevalent multiple joint osteoarthritis: a cross-sectional study of older adults. *BMC Musculoskeletal Disorders*. 2019 Apr 11; 20 (1): 165
48. *Anderson ML*, Allen KD, **Golightly YM**, Arbeeve LS, Goode A, Huffman KM, Schwartz TA, Hill CH. Fall risk and utilization of balance training for adults with symptomatic knee osteoarthritis: Secondary analysis from a randomized clinical trial. *Journal of Geriatric Physical Therapy* 2019 Apr/Jun; 42 (2): E39-E44
49. Goode AP, Cleveland RJ, Schwartz TA, Nelson AE, Kraus VB, Hillstrom HJ, Hannan MT, Flowers P, Renner JB, Jordan JM, **Golightly YM***. Relationship of joint hypermobility with low back pain and lumbar spine osteoarthritis. *BMC Musculoskeletal Disorders*. 2019 Apr; 20 (1): 158
50. *Miller VE*, Poole C, **Golightly Y**, Barrett D, Chen DG, Ohrbach R, Greenspan JD, Fillingim RB, Slade GD. Characteristics associated with high-impact pain in people with temporomandibular disorders: a cross-sectional study. *Journal of Pain* 2019 Mar; 20 (3): 288-300
51. Junge T, Henriksen P, Hansen S, Ostengaard L, **Golightly YM**, Juul-Kristensen B. Generalised joint hypermobility and knee joint hypermobility: prevalence, knee joint symptoms and health-related quality of life in a Danish adult population. *International Journal of Rheumatic Diseases* 2019 Feb; 22 (2): 288-296
52. Corsi M, Alvarez C, Callahan LF, Cleveland R, **Golightly YM**, Jordan JM, Nelson AE, Renner J, Tsai A, Allen KD. Contributions of symptomatic osteoarthritis and physical function to incident cardiovascular disease. *BMC Musculoskeletal Disorders* 2018 Nov; 19 (1): 393
53. Iversen MD, Schwartz TA, von Heideken J, Callahan LF, **Golightly YM**, Goode A, Hill C, Huffman K, Pathak A, Cooke J, Allen KD. Sociodemographic and clinical correlates of physical therapy utilization in adults with symptomatic knee osteoarthritis. *Physical Therapy* 2018 Aug 1; 98 (8): 670-678
54. Pignato M, Arbeeve L, Schwartz TA, Callahan LF, Cooke J, **Golightly YM**, Goode AP, Heiderscheid BC, Hill CH, Huffman KM, Severson HH, Allen KD. Level of participation in physical therapy or an internet-based exercise training program: associations with outcomes for patients with knee osteoarthritis. *BMC Musculoskeletal Disorders*, 2018 July 19; 19 (1): 238
55. *Flowers PPE*, Cleveland RJ, Schwartz TA, Nelson AE, Kraus VB, Hillstrom HJ, Goode AP, Hannan MT, Renner JB, Jordan JM, **Golightly YM***. Association between general joint hypermobility and knee, hip, and lumbar spine osteoarthritis by race: a cross-sectional study. *Arthritis Research and Therapy* 2018 Apr 18; 20 (1): 76
56. *Roos K*, Kucera K, **Golightly Y**, Myers JB, Rosamond W, Marshall SW. Capture of time-loss overuse soccer injuries in the National Athletic Association's Injury Surveillance System, 2005-2006 through 2007-2008. *Journal of Athletic Training* 2018 Mar; 53 (3): 271-278
57. Allen KD, Abreeve L, Callahan LF, **Golightly YM**, Goode AP, Heiderscheid BC, Huffman KM, Severson HH, Schwartz TA. Physical therapy vs. internet-based exercise training for patients with knee

osteoarthritis: Results of a randomized controlled trial. *Osteoarthritis and Cartilage* 2018 Mar; 26 (3): 383-396

58. Wellsandt E, **Golightly YM***. Exercise in the management of knee and hip osteoarthritis. *Current Opinion in Rheumatology* 2018 Mar; 30 (2): 151-159
59. Gunn AH, Schwartz TA, Arbeeve LS, Callahan LF, **Golightly YM**, Goode AP, Hill CH, Huffman KM, Iversen MD, Pathak A, Taylor SS, Allen KD. Fear of movement and associated factors among adults with symptomatic knee osteoarthritis. *Arthritis Care and Research*, 2017 Dec; 69 (12): 1826-1833
60. **Golightly YM***, Allen KD, Ambrose KR, Stiller JL, Evenson KR, Voisin C, Hootman JM, Callahan LF. Physical activity as a vital sign: a systematic review. *Preventing Chronic Disease* 2017 Nov 30; 14: E123
61. Allen KD, **Golightly YM**, White DK. Gaps in appropriate use of treatment strategies in osteoarthritis. *Best Practice & Research Clinical Rheumatology* 2017 Oct; 31 (5): 746-759
62. *Hargrove JL*, **Golightly YM**, Pate V, Casteel CH, Loehr LR, Marshall SW, Stürmer T. Initiation of antihypertensive monotherapy and incident fractures among Medicare beneficiaries. *Injury Epidemiology* 2017 Oct 18; 4 (1): 27
63. *Hargrove JL*, Pate V, Casteel CH, **Golightly YM**, Loehr LR, Marshall SW, Stürmer T. Antihypertensive adherence trajectories among older adults in the first year after initiation of therapy. *American Journal of Hypertension* 2017 Oct 1; 30 (10): 1015-1023
64. Nelson AE, **Golightly YM**, Lateef S, Renner JB, Jordan JM, Aspden RM, Hillstrom HJ, Gregory JS. Cross-sectional associations between variations in ankle shape by statistical shape modeling, injury history, and race: The Johnston County Osteoarthritis Project. *Journal of Foot and Ankle Research* 2017 Jul 26; 10: 34
65. *Yau RK*, **Golightly YM**, Richardson DB, Runfola CD, Waller AE, Marshall SW. Potential predictors of injuries among pre-professional ballet and contemporary dancers. *Journal of Dance Medicine and Science* 2017 Jun 15; 21 (2): 53-63
66. Lateef S, **Golightly YM**, Renner JB, Jordan JM, Nelson AE. A cross-sectional analysis of radiographic ankle osteoarthritis frequency and associated factors: The Johnston County Osteoarthritis Project. *Journal of Rheumatology* 2017 Apr; 44 (4): 499-504
67. Pietrosimone BG, Blackburn JT, **Golightly YM**, Harkey MS, Luc BA, DeFreese JD, Padua DA, Jordan JM, Bennell KL. Certified Athletic Trainers' knowledge and perceptions of posttraumatic osteoarthritis after knee injury. *Journal of Athletic Training* 2017 Jun 2; 52 (6): 541-559
68. Meneses SR, Goode AP, Nelson AE, Lin J, Jordan JM, Allen KD, Bennell KL, Lohmander LS, Fernandes L, Hochberg MC, Underwood M, Conaghan PG, Liu S, McAlindon TE, **Golightly YM**, Hunter DJ. Clinical algorithms to aid osteoarthritis guideline dissemination. *Osteoarthritis and Cartilage* 2016 Sep; 24 (9): 1487-99
69. **Golightly YM***, Dufour AB, Hannah MT, Hillstrom HJ, Katz PP, Jordan JM. Leg muscle mass and foot symptoms, structure, and function: the Johnston County Osteoarthritis Project. *The Journals of Gerontology. Series A, Biological sciences and medical sciences* 2016; 71 (3): 385-90
70. Nelson AE, **Golightly YM**, Renner JB, Schwartz TA, Liu F, Lynch JA, Gregory JS, Aspden RM, Lane NE, Jordan JM. Variations in hip shape are associated with radiographic knee osteoarthritis: cross-sectional and longitudinal analyses of the Johnston County Osteoarthritis Project. *Journal of Rheumatology* 2016; 43 (2): 405-10

71. **Golightly YM***, Allen KD, Jordan JM. Defining the burden of osteoarthritis in population-based surveys. *Arthritis Care and Research* 2016; 68 (5): 571-3
72. Hsu Y-H, Liu Y, Hannan MT, Maixner W, Smith SB, Diatchenko L, **Golightly YM**, Menz HB, Kraus VB, Doherty M, Wilson AG, Jordan JM. Genome-wide association meta-analyses to identify common genetic variants associated with hallux valgus in Caucasians and African Americans. *Journal of Medical Genetics* 2015; 52 (11): 762-9
73. Pietrosimone BG, **Golightly YM**, Mihalik JP, Guskiewicz KM. Concussion frequency is associated with lower extremity musculoskeletal injury in retired National Football League players. *Medicine and Science in Sports & Exercise* 2015; 47 (11): 2366-72
74. **Golightly YM***, Allen KD, Nyrop KA, Nelson AE, Callahan LF, Jordan JM. Patient-reported outcomes to initiate a provider-patient dialog for the management of hip and knee osteoarthritis. *Seminars in Arthritis and Rheumatism* 2015; 45 (2): 123-31
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Refereed Other Products of Scholarship: Abstracts and Conference Presentations (Total = 59)

1. **Golightly YM**, Alvarez C, Hannan MT, Gates LS, Cleveland RJ, Neslon AE, Callahan LF. Severe foot symptoms are associated with mortality: the Johnston County Osteoarthritis Project. Will be presented at ACR Convergence 2021 - American College of Rheumatology, November 8, 2021; virtual conference.
2. ElTaraboulsi RR, Nelson AE, Alvarez C, Renner JB, Bowen C, Gates L, **Golightly YM**. Incidence and Progression of Foot Osteoarthritis. Presented at ACR Convergence 2020 - American College of Rheumatology, November 7, 2020; virtual conference.
3. **Golightly YM**, Alvarez C, Blue MNM, Allen KD, Nelson AE, Smith-Ryan AE. High Intensity Interval Training for Knee Osteoarthritis: A Pilot Study. Presented at American College of Rheumatology / Association of Rheumatology Professionals Annual Meeting, November 12, 2019; Atlanta, GA.
4. **Golightly YM**, Alvarez C, Arbeeve L, Cleveland RJ, Schwartz TA, Renner JB, Callahan LF, Jordan JM, Nelson AE. Knee Injury and Transitions Among States of Knee Osteoarthritis in the Johnston County Osteoarthritis Project: A Multi-State Time-To-Event Modeling Approach. Presented at American College of Rheumatology / Association of Rheumatology Professionals Annual Meeting, November 13, 2019; Atlanta, GA.
5. **Golightly YM**, Shiue KY, Nocera M, Guermazi A, Cantrell J, Renner JB, Padua DA, Cameron KL, Svoboda SJ, Jordan JM, Loeser R, Kraus VB, Lohmander LS, Beutler AI, Marshall SW. Association of Traumatic Knee Injury with Knee Function, Symptoms, and Radiographic Osteoarthritis in Military Officers. Presented at American College of Rheumatology / Association of Rheumatology Professionals Annual Meeting, November 12, 2019; Atlanta, GA.
6. Snyder EA, Alvarez C, **Golightly YM**, Renner JB, Jordan JM, Nelson AE. Incidence and progression of hand osteoarthritis in the Johnston County Osteoarthritis Project. Presented at 2019 OARSI World Congress on Osteoarthritis, May 3-4, 2019; Toronto, ON.
7. Smith JA, Alvarez C, Renner JB, Jordan JM, **Golightly YM**, Duryea J, Nelson AE. Semi-Automated Longitudinal Assessment of Quantitative Joint Space Width at the Hip in a Community-Based Cohort. Presented at 2019 OARSI World Congress on Osteoarthritis, May 3-4, 2019; Toronto, ON.

8. **Golightly YM**, Nocera MA, Beutler A, Renner JB, Guermazi A, Cantrell J, Padua DA, Cameron KL, Svoboda SJ, Jordan JM, Loeser RF, Kraus VB, Lohmander LS, Marshall SW. Association of Knee Ligament and/or Meniscal Injury with Radiographic Knee Osteoarthritis in Military Officers. Presented at American College of Rheumatology / Association of Rheumatology Health Professionals Annual Scientific Meeting, October 22, 2018; Chicago, IL.
9. Hankins J, Hill C, Hannan MT, Hillstrom HJ, Goode AP, **Golightly YM**. Standing balance and walking time among older adults with and without joint hypermobility: The Johnston County Osteoarthritis Project. Presented at American College of Rheumatology / Association of Rheumatology Health Professionals Annual Scientific Meeting, October 22, 2018; Chicago, IL.
10. Goode AP, Cleveland RJ, George SZ, Kraus VB, Schwartz TA, Gracely R, Jimenez M, Chen J, Jordan JM, **Golightly YM**. Demographics and clinical characteristics reflect different phenotypes of osteoarthritis in the lumbar spine: The Johnston County Osteoarthritis Project. Presented at American College of Rheumatology / Association of Rheumatology Health Professionals Annual Scientific Meeting, October 21, 2018; Chicago, IL.
11. Schmuel S, Lund JL, Alvarez C, Hsu CD, Palta P, Kucharska-Newton A, Nelson AE, **Golightly YM**. Polypharmacy and Frailty in the Johnston County Osteoarthritis Project. Presented at 34th International Conference on Pharmacoepidemiology, August 24, 2018; Prague, Czech Republic.
12. **Golightly YM**, Nocera M, Cantrell J, Renner JB, Marshall SW. Relationship of Traumatic Knee Injuries in Early-Onset Knee Osteoarthritis in Young Military Officers. Presented at American College of Rheumatology / Association of Rheumatology Health Professionals Annual Scientific Meeting, November 5, 2017; San Diego, CA.
13. Flowers P, Nelson AE, Hannan MT, Hillstrom HJ, Renner JB, Jordan JM, **Golightly YM**. Cross-sectional Analysis of Foot Osteoarthritis Frequency and Associated Factors: The Johnston County Osteoarthritis Project. Presented at American College of Rheumatology / Association of Rheumatology Health Professionals Annual Scientific Meeting, November 7, 2017; San Diego, CA.
14. Flowers P, Cleveland RJ, Schwartz TA, Nelson AE, Kraus VB, Hillstrom HJ, Goode AP, Hannan MT, Renner JB, Jordan JM, **Golightly YM**. Association of Joint Hypermobility and Lower Body Osteoarthritis by Race. Presented at 2017 OARSI World Congress on Osteoarthritis, April 28-29, 2017; Las Vegas, NV.
15. Goode AP, Cleveland RJ, Schwartz TA, Nelson AE, Kraus VB, Hillstrom HJ, Hannan MT, Flowers P, Renner JB, Jordan JM, **Golightly YM**. Relationship of Joint Hypermobility with Low Back Pain and Lumbar Spine Osteoarthritis: A Pooled Analysis of Three Cross-sectional Studies. Presented at 2017 OARSI World Congress on Osteoarthritis, April 28-29, 2017, Las Vegas, NV.
16. Tsai AJ, Hillstrom HJ, Hannan MT, Jordan JM, **Golightly YM**. Foot Function and Performance-Based Physical Function in Older Adults: The Johnston County Osteoarthritis Project. Presented at 2017 OARSI World Congress on Osteoarthritis, April 28-29, 2017.
17. **Golightly YM**, Alvarez C, Allen KD, Renner JB, Jordan JM. Relationship of Limb Length Inequality and Incident and Progressive Knee and Hip Radiographic Osteoarthritis and Symptoms. Presented at American College of Rheumatology / Association of Rheumatology Health Professionals Annual Scientific Meeting, November 14, 2016; Washington, D.C.
18. **Golightly YM**, Nelson AE, Hannan MT, Hillstrom HJ, Kraus VB, Cleveland RJ, Goode AP, Schwartz TA, Renner JB, Jordan JM. Is Joint Hypermobility Related to Foot Osteoarthritis and Symptoms? Presented at American College of Rheumatology / Association of Rheumatology Health Professionals Annual Scientific Meeting, November 15, 2016; Washington, D.C.

19. Jones J, Casteel C, **Golightly YM**, Loehr L, Marshall S, Sturmer T. Trajectories of antihypertensive adherence and persistence after initiation among older adults. Presented at International Society on Pharmacoepidemiology Conference, August 23, 2016; Dublin, Ireland.
20. **Golightly YM**, Nelson AE, Hannan MT, Hillstrom HJ, Kraus VB, Cleveland RJ, Goode AP, Schwartz TA, Renner JB, Jordan JM. Relationship of Joint Hypermobility and Ankle Osteoarthritis in a Community-Based Cohort. Presented at European League Against Rheumatism Congress, June 10, 2016; London, England.
21. **Golightly YM**, Goode AP, Cleveland RJ, Nelson AE, Hannan MT, Hillstrom HJ, Kraus VB, Schwartz TA, Renner JB, Jordan JM. Relationship of Joint Hypermobility and Lumbar Spine Pain and Osteoarthritis: A Cohort Study. Presented at European League Against Rheumatism Congress, June 10, 2016; London, England.
22. **Golightly YM**, Alvarez C, Cantrell J, Renner JB, Helmick CG, Jordan JM. Leg Length Inequality as a Risk Factor for Disability in a Community-Based Longitudinal Study. Presented at European League Against Rheumatism Congress, June 9, 2016; London, England.
23. **Golightly YM**, Gross MT, Nelson AE, Callahan LF, Jordan JM. Correction of leg length inequality among older adults with hip or knee symptoms. Presented at: American College of Rheumatology/ Association of Rheumatology Health Professionals, November 11, 2015; San Francisco, CA.
24. Yau RK, **Golightly YM**, Richardson DB, Runfola CD, Waller AE, Potter AB, Santos LA, Wilkenfeld DA, Marshall SW. Injuries among elite pre-professional ballet and contemporary dancers. Presented at: American Public Health Association Annual Meeting November 1, 2015: Chicago, IL.
25. Yau R, **Golightly YM**, Richardson D, Runfola C, Waller A, Orr B, Potter A, Marshall S. Eating disorder symptoms among elite pre-professional ballet and modern dancers. Presented at: International Association of Dance Medicine and Science Annual Meeting October 9, 2015: Pittsburgh, PA.
26. **Golightly YM**, Stiller JL, Cantrell J, Renner JB, Jordan JM, Aspden RM, Gregory JS, Nelson AE. Hip Shape by Statistical Shape Modeling is Associated with Leg Length Inequality in Older Adults. Presented at: Osteoarthritis Research Society International 2015 Congress May 1, 2015: Seattle, WA.
27. **Golightly YM**, Hannan MT, Katz PP, Hillstrom HJ, Dufour AB, Jordan JM. Foot Structure and Function Show Associations with Lower Extremity Physical Function. Presented at: American College of Rheumatology/ Association of Rheumatology Health Professionals, November 18, 2014; Boston, MA.
28. Roos KG, Kerr ZY, **Golightly YM**, Kucera KL, Myers JB, Marshall SW, Rosamond WD, Comstock RD. The Epidemiology of Overuse Injuries in US Collegiate and High School Athletics. Presented at: American College of Sports Medicine Annual Meeting, May 30, 2014: Orlando, FL.
29. Pietrosimone B, **Golightly YM**, Mihalik JP, Guskiewicz. Concussion Frequency is Associated with Lower Extremity Musculoskeletal Injury in Retired National Football League Players. Presented at: American College of Sports Medicine Annual Meeting, May 30, 2014: Orlando, FL.
30. Nelson AE, **Golightly YM**, Liu F, Lynch JA, Gregory JS, Aspden RM, Lane NE, Jordan JM. Variations in hip shape are associated with prevalent radiographic knee osteoarthritis: The Johnston County Osteoarthritis Project. Presented at: Osteoarthritis Research Society International 2014 Congress April 25, 2014: Paris, France.
31. **Golightly YM**, Hannan MT, Hillstrom HJ, Dufour AB, Nelson AE, Dore A, Jordan JM. The Link Of Foot Structure and Foot Function With Falls: The Johnston County Osteoarthritis Project. Presented at: American College of Rheumatology/ Association of Rheumatology Health Professionals, October 28, 2013; San Diego, CA.

32. **Golightly YM**, Hannan MT, Dufour AB, Nelson AE, Dore A, Jordan JM. Foot Symptoms Increase Odds Of Falling: The Johnston County Osteoarthritis Project. Presented at: American College of Rheumatology/ Association of Rheumatology Health Professionals, October 27, 2013; San Diego, CA.
33. Nelson AE, Smith MW, **Golightly YM**. "Generalized Osteoarthritis": A Systematic Review. Presented at: American College of Rheumatology/ Association of Rheumatology Health Professionals, October 27, 2013; San Diego, CA.
34. Dore A, **Golightly YM**, Mercer V, Renner JB, Shi XA, Jordan JM, Nelson AE. Risk Of Falls Increases With Additional Symptomatic Osteoarthritic Joints: The Johnston County Osteoarthritis Project. Presented at: American College of Rheumatology/ Association of Rheumatology Health Professionals, October 27, 2013; San Diego, CA.
35. Hannan MT, Dufour AB, **Golightly YM**, Casey VA, Hagedorn TJ, Riskowski JL, Hillstrom HJ, Jordan JM. Race interactions and foot function in older adults: The Johnston County Osteoarthritis Project. Presented at: Osteoarthritis Research Society International 2013 Congress April 19-20, 2013; Philadelphia, PA. *Osteoarthritis and Cartilage, Volume 21, Supplement, April 2013, Page S152.*
36. Dufour AB, Hannan MT, Katz PP, **Golightly YM**, Hagedorn TJ, Jordan JM. Leg muscle mass and foot pain, structure and function: The Johnston County Osteoarthritis Study. Presented at: Osteoarthritis Research Society International 2013 Congress April 19-20, 2013; Philadelphia, PA. *Osteoarthritis and Cartilage, Volume 21, Supplement, April 2013, Pages S157-S158.*
37. **Golightly YM**, Hannan MT, Hillstrom HJ, Jordan JM. Foot disorders associated with foot-related symptoms and function. Presented at: Translational Science Meeting, April 18, 2013; Washington, D.C.
38. **Golightly YM**, Hannan MT, Dufour AB, Hillstrom HJ, Jordan JM. Foot disorders associated with over-pronated and over-supinated foot types: The Johnston County Osteoarthritis Project. Presented at: American College of Rheumatology/ Association of Rheumatology Health Professionals, November 11, 2012; Washington, D.C.
39. **Golightly YM**, Nelson AE, Kraus VB, Renner JB, Jordan JM. General joint hypermobility and hip osteoarthritis: The Johnston County Osteoarthritis Project. Presented at: Arthritis Foundation Segal North-American Osteoarthritis Workshop (SNOW V) on Injury and Osteoarthritis, October 26-28, 2012 in Chicago, IL.
40. **Golightly YM**, Nelson AE, Kraus VB, Renner JB, Jordan JM. General joint hypermobility and hip osteoarthritis: The Johnston County Osteoarthritis Project. Presented at: Osteoarthritis Research Society International 2012 Congress April 27-28, 2012; Barcelona, Spain. *Osteoarthritis and Cartilage, Volume 20, Supplement 1, April 2012, Page S182.*
41. Jordan JM, Smith S, Maixner W, **Golightly YM**, Hsu Y-H, Hannan MT. Genome-wide association study of hallux valgus: The Johnston County Osteoarthritis Project. Presented at: Osteoarthritis Research Society International 2012 Congress April 27-28, 2012; Barcelona, Spain. *Osteoarthritis and Cartilage, Volume 20, Supplement 1, April 2012, Page S194.*
42. Nelson AE, Renner JB, **Golightly YM**, Schwartz TA, Kraus VB, Helmick CG, Jordan JM. Differences in multi-joint symptomatic osteoarthritis phenotypes by race and gender: The Johnston County Osteoarthritis Project. Presented at: Osteoarthritis Research Society International 2012 Congress April 27-28, 2012; Barcelona, Spain. *Osteoarthritis and Cartilage, Volume 20, Supplement 1, April 2012, Page S156.*
43. **Golightly YM**, Hannan MT, Dufour AB, Renner JB, Jordan JM. Factors associated with hallux valgus: The Johnston County Osteoarthritis Project. Presented at: American College of Rheumatology/ Association of Rheumatology Health Professionals, November 7, 2011; Chicago, IL.

44. Goode AP, Kraus VB, **Golightly YM**, Marshall SW, Irwin DE, Jordan JM. Association of lumbar spine individual radiographic features with serum C-propeptide (sCPII) and serum collagen neoepitope (sC2C) of Type II collagen: The Johnston County Osteoarthritis Project. Presented at: American College of Rheumatology/ Association of Rheumatology Health Professionals, November 7, 2011; Chicago, IL.
45. **Golightly YM**, DeVellis RF, Roos EM, Lohmander LS, Hannan MT, Nelson AE, Jordan JM. Psychometric properties of the Foot and Ankle Outcome Score (FAOS) in a community-based osteoarthritis study. Presented at: Osteoarthritis Research Society International 2011 World Congress September 16-17, 2011; San Diego, CA. *Osteoarthritis and Cartilage, Volume 19, Supplement 1, September 2011, Page S153.*
46. Allen KD, **Golightly YM**, Helmick CG, Ibrahim SA, Kwok CK, Renner JB, Jordan JM. Racial and gender differences in willingness to undergo total joint replacement: The Johnston County Osteoarthritis Project. Presented by YM Golightly at: Osteoarthritis Research Society International 2011 World Congress September 16-17, 2011; San Diego, CA. *Osteoarthritis and Cartilage, Volume 19, Supplement 1, September 2011, Pages S155-S156.*
47. Goode AP, Kraus VB, **Golightly YM**, Marshall SW, Jordan JM. Association of lumbar spine individual radiographic features with urinary cross-linked C-telopeptide of type II collagen (CTX-II) and serum hyaluronan: The Johnston County Osteoarthritis Project. Presented at: Osteoarthritis Research Society International 2011 World Congress September 16-17, 2011; San Diego, CA. *Osteoarthritis and Cartilage, Volume 19, Supplement 1, September 2011, Page S73.*
48. Nelson AE, DeVellis RF, DeVellis BM, **Golightly YM**, Maixner W, Jordan JM. Identifying pain vulnerability phenotypes in osteoarthritis. Presented at: Osteoarthritis Research Society International 2011 World Congress September 16-17, 2011; San Diego, CA. *Osteoarthritis and Cartilage, Volume 19, Supplement 1, September 2011, Pages S8-S9.*
49. **Golightly YM**, Dufour AB, Jordan JM, Kaplan J, Hannan MT. Racial differences in foot disorders: The Johnston County Osteoarthritis Project. Presented at: American Podiatric Medical Association July 29, 2011; Boston, MA.
50. **Golightly YM**, Hannan MT, Dufour AB, Jordan JM. Racial differences in foot disorders: The Johnston County Osteoarthritis Project. Presented at: American College of Rheumatology/ Association of Rheumatology Health Professionals, November 9, 2010; Atlanta, GA.
51. **Golightly YM**, Marshall SW, Kraus VB, Renner JB, Villaveces A, Casteel C, Jordan JM. Serum cartilage oligomeric matrix protein, hyaluronan, high-sensitivity C-reactive protein, and keratin sulfate as predictors of incident radiographic knee osteoarthritis: Difference by chronic knee symptoms. Presented at: Osteoarthritis Research International Society World Conference September 24-25, 2010; Brussels, Belgium. *Osteoarthritis and Cartilage, Volume 18, Supplement 2, October 2010, Pages S62-S63.*
52. Nelson AE, **Golightly YM**, Kraus VB, Stabler T, Renner JB, Jordan JM. Serum transforming growth factor-beta 1 as a biomarker of incident and progressive radiographic osteoarthritis at the knee: The Johnston County Osteoarthritis Project. Presented at: Osteoarthritis Research International Society World Conference September 24-25, 2010; Brussels, Belgium. *Osteoarthritis and Cartilage, Volume 17, Supplement 1, September 2009, Pages S65-S66.*
53. **Golightly YM**, Hannan MT, Helmick CG, Shi QA, Renner JB, Jordan JM. Chronic foot symptoms and self-reported and performance based physical function: The Johnston County Osteoarthritis Project. A summary of this work was presented on October 20, 2009 at the American College of Rheumatology/ Association of Rheumatology Health Professionals conference in Philadelphia, PA.
54. **Golightly YM**, Nelson A, Kraus VB, Stabler T, Renner JB, Jordan JM. Serum cartilage oligomeric matrix protein (COMP) and incident and progressive radiographic osteoarthritis at the knee and hip: The

Johnston County Osteoarthritis Project. Presented at: Osteoarthritis Research International Society World Conference September 11-12, 2009 in Montreal, Canada; Arthritis Foundation Segal North-American Osteoarthritis Workshop on Injury and Osteoarthritis, October 1-3, 2009 in Chicago, IL. *Osteoarthritis and Cartilage, Volume 17, Supplement 1, September 2009, Page S64.*

55. **Golightly YM**, Marshall SW, Callahan LF, Guskiewicz K. Arthritis in retired National Football League players. Presented at: Society for Advancement of Violence and Injury Research; March 6, 2009 in Atlanta, GA, and the Arthritis Foundation Segal North-American Osteoarthritis Workshop on Injury and Osteoarthritis, October 1-3, 2009 in Chicago, IL.
56. **Golightly YM**, Nelson A, Kraus VB, Stabler T, Renner JB, Jordan JM. Serum cartilage oligomeric matrix protein (COMP) and incident and progressive radiographic osteoarthritis at the knee and hip: The Johnston County Osteoarthritis Project. A summary of this work was presented on April 24, 2009 at the OA Biomarker Global Initiative Meeting, Bethesda, MD.
57. **Golightly YM**, Allen KD, Helmick CG, Renner JB, Jordan JM. Relationship of limb length inequality with knee and hip symptoms. Presented at: the American College of Rheumatology/ Association of Rheumatology Health Professionals conference October 26, 2008; San Francisco, CA.
58. **Golightly YM**, Marshall SW, Callahan LF, Guskiewicz K. Arthritis in retired National Football League players. Presented at: American College of Rheumatology/ Association of Rheumatology Health Professionals, November 9, 2007; Boston, MA.
59. **Golightly YM**, Allen KD, Helmick CG, Renner JB, Salazar A, Jordan JM. Relationship of limb length inequality with radiographic knee and hip osteoarthritis. Presented on November 12, 2006 at the American College of Rheumatology/ Association of Rheumatology Health Professionals conference in Washington, D.C.
60. **Golightly YM**, Allen KD, Bosworth HB. Racial differences in treatment decision-making among veterans with osteoarthritis. Presented at: VA Health Services Research and Development National Meeting, February 16, 2006; Washington, D.C.

Invited Oral Presentations

“Therapeutic Exercise for Joint Health.” Will be presented at: American College of Rheumatology (ACR) Convergence: The ACR's All-Virtual Annual Meeting; November 8, 2020.

“Exercise, the “Wonder Drug: Motivation and Persistence from the Patient’s Perspective.” Presented at: American College of Rheumatology/Association of Rheumatology Professionals Annual Scientific Meeting, Atlanta, GA; November 11, 2019.

“Encouraging Community Organizations to Implement Evidence-Based Physical Activity Interventions Among People With Arthritis.” Presented at: American College of Rheumatology/Association of Rheumatology Health Professionals Annual Scientific Meeting, San Diego, CA; November 7, 2017.

“Studying Population Diversity in Biomechanics: Is it Warranted? Racial Differences In Foot Disorders, Structure, And Function: The Johnston County Osteoarthritis Project.” Presented at: 40th Annual Meeting of the American Society of Biomechanics, Raleigh, NC, August 5, 2016.

“The Osteoarthritis Action Alliance Impact on Aging in America. Osteoarthritis: An Overview.” Presented at: American Society on Aging’s Aging in America Conference, Washington, D.C.; March 21, 2016.

“Bridging Research and Advocacy: The Osteoarthritis Action Alliance Update.” Presented at: American College of Rheumatology/Association of Rheumatology Health Professionals Annual Scientific Meeting, San Francisco, CA; November 11, 2015.

“Long-Term Consequences of Musculoskeletal Disorders on Public Health.” Presented at: Lunch with the Dean, University of North Carolina, Gillings School of Global Public Health, Chapel Hill, NC: September 2, 2014.

“Biomarkers & Biomechanics Associated with Injury-Mediated Osteoarthritis: A Study of Military Cadets.” 2013-North Carolina Cartilage – Arthritis Research Alliance (NC-CARA) Meeting. Wake Forest University, Winston-Salem, NC; October 11, 2013.

“Limb length inequality and osteoarthritis”. 2012-North Carolina Cartilage – Arthritis Research Alliance (NC-CARA) Meeting. The Friday Center, University of North Carolina, Chapel Hill, NC; March 20, 2012.

Dissertation (PhD)

Golightly YM. 2010. “Osteoarthritis and Injury in the Knee and Hip.” Department of Epidemiology, University of North Carolina at Chapel Hill

Thesis (MS)

Golightly YM. 2005. “Shoe Lift Therapy in Individuals with Limb Length Inequality and Low Back Pain.” Human Movement Science, University of North Carolina at Chapel Hill

TEACHING RECORD

Classroom Teaching (past 3 years)

Lead Instructor Fall 2018, 2019, 2020, 2021
EPID 625: Injury as a Public Health Problem
Department of Epidemiology, University of North Carolina, Chapel Hill, NC
Number of students: 16 (2019), 12 (2020), 12 (2021)

Co-Instructor Spring 2019, 2020, 2021
EPID 626, Violence as a Public Health Problem
Department of Epidemiology, University of North Carolina, Chapel Hill, NC
Number of students: 15 (2019), 18 (2020), 24 (2021)

Guest Lectures & Invited Educational Presentations

“The role of the foot and ankle in falls in people with arthritis.” Invited Educational Presentation at: American College of Rheumatology/Association of Rheumatology Health Professionals Annual Scientific Meeting, Chicago, IL; October 23, 2018.

“Musculoskeletal Injury and Joint Health across the Life Course: How Can We Intervene to Improve Outcomes?” Invited Educational Presentation at: University of Nebraska Medical Center, Omaha, NE; July 25, 2018.

“Rehabilitation Considerations for the Management of Joint Hypermobility.” Invited Educational Presentation at: American College of Rheumatology/Association of Rheumatology Health Professionals Annual Scientific Meeting, Washington D.C., November 15, 2016.

“The Prevalence Ratio as an Alternative to the Odds Ratio for Cross-sectional Studies.” Invited Educational Presentation at: American College of Rheumatology/Association of Rheumatology Health Professionals Annual Scientific Meeting, Boston, MA; November 18, 2014.

“Beyond the basics: A real life example of multiple imputation for missing data problems.” Presented at American College of Rheumatology/Association of Rheumatology Health Professionals Annual Scientific Meeting, Washington, D.C.; November 14, 2012.

“Leg Length Inequality and Osteoarthritis.” Invited Educational Presentation at: Osteoarthritis Action Alliance Lunch and Learn. University of North Carolina, Chapel Hill, NC: August 20, 2014.

“Limb Length Inequality and Foot Disorders.” Invited Educational Presentation at UNC Department of Medicine, Division of Rheumatology, Allergy, and Immunology Grand Rounds, University of North Carolina, Chapel Hill, NC; October 4, 2013.

“Musculoskeletal Epidemiology.” Invited Educational Presentation at UNC Division of Physical Therapy Grand Rounds, University of North Carolina, Chapel Hill, NC; April 11, 2013.

“Epidemiologic research on osteoarthritis, musculoskeletal disorders, and injury of the lower extremity.” Invited Educational Presentation at School of Allied Health Research Seminar Series, University of Nebraska Medical Center, Omaha, NE; January 12, 2012.

Guest Lecturer, HMSC 886, Understanding Research, “Epidemiologic Methods” (1 lecture). Human Movement Science Program, University of North Carolina, Chapel Hill, NC, 2010.

Teaching Assistant

EPID 600, Principles of Epidemiology for Public Health 2008
Department of Epidemiology, University of North Carolina, Chapel Hill, NC

PHYT 299, Seminar in Differential Physical Therapy 2004
Division of Physical Therapy, University of North Carolina, Chapel Hill, NC

Student Advising

Current PhD Academic Advising – Primary Advisor

Student: Monica Martinez-Swilley August 2021- present
Epidemiology PhD program, University of North Carolina, Chapel Hill, NC

Student: Lucas Neuroth August 2021- present
Epidemiology PhD program, University of North Carolina, Chapel Hill, NC

Student: Molly Minnig August 2020- present
Epidemiology PhD program, University of North Carolina, Chapel Hill, NC

Student: Erin Shore August 2020- present
Epidemiology PhD program, University of North Carolina, Chapel Hill, NC

Student: Nandi Taylor August 2020- present
Epidemiology PhD program, University of North Carolina, Chapel Hill, NC
Awarded Shults Injury Prevention Scholarship 2021

Student: Mary Figgatt August 2019- present
Epidemiology PhD program, University of North Carolina, Chapel Hill, NC
Awarded Shults Injury Prevention Scholarship 2019

Student: Kristin Shiue August 2018- present
Epidemiology PhD program, University of North Carolina, Chapel Hill, NC
Awarded Gary G. and Carolyn J. Koch Merit Scholarship in Public Health for 2018/2019

Student: Bhavna Singichetti August 2018- present
Epidemiology PhD program, University of North Carolina, Chapel Hill, NC
Awarded Shults Injury Prevention Scholarship 2018

Current Dissertation Advising

Committee Chair

Chair of Doctoral Committee May 2021-present
Student: Kristin Shiue
Research: Birth cohorts and determinants of opioid use
Epidemiology PhD Candidate, University of North Carolina, Chapel Hill, NC

Graduated

Committee Chair

Chair of Doctoral Committee February 2018-August 2019
Student: Marc Emerson
Research: Race- and age-related disparities in exposure and risk factor patterns for breast cancer
Epidemiology PhD Candidate, University of North Carolina, Chapel Hill, NC

Doctoral Committee Member

Member of Doctoral Committee September 2020-July 2021
Student: Morgan Richey
Research: Occupational Fatality Trends among Vulnerable Populations in North Carolina
Epidemiology PhD Candidate, University of North Carolina, Chapel Hill, NC

Member of Doctoral Committee April 2018-June 2021
Student: Katie Wolff
Research: Firearm death in North Carolina
Epidemiology PhD Candidate, University of North Carolina, Chapel Hill, NC

Member of Doctoral Committee May 2018-May 2020
Student: Shahar Shmuel
Research: Anticholinergic and Sedative Drug Load in Older Adults
Epidemiology PhD Candidate, University of North Carolina, Chapel Hill, NC

Member of Doctoral Committee February-October 2019
Student: Erica Bjornstad
Research: Evaluating epidemiological risk factors for pediatric acute kidney injury globally: from United States and a low-resource setting Malawi
Injury Epidemiology PhD Candidate, University of North Carolina, Chapel Hill, NC

Member of Doctoral Committee October 2016- August 2018
Student: Vanessa Miller
Research: Temporomandibular joint disorders
Epidemiology PhD Candidate, University of North Carolina, Chapel Hill, NC

Member of Doctoral Committee March 2015- May 2017
Student: Jennifer Jones Hargrove
Research: Antihypertensive use and fractures among older adults
Injury Epidemiology PhD Candidate, University of North Carolina, Chapel Hill, NC

Member of Doctoral Committee July 2014- May 2016
Student: Rebecca Yau

Research: Risk factors for musculoskeletal injuries and eating disorders/disordered eating among high school and university dancers
Injury Epidemiology PhD Candidate, University of North Carolina, Chapel Hill, NC
Awarded University of North Carolina Graduate School Summer Fellowship, 2015

Member of Doctoral Committee September 2012- May 2015

Student: Karen Roos

Research: Overuse Injuries in High School and Collegiate Populations: Occurrence and Methodological Issues in Surveillance Data

Injury Epidemiology PhD Candidate, University of North Carolina, Chapel Hill, NC

Member of Doctoral Committee July 2012- May 2014

Student: Rebecca Begalle

Research: The Effect of Anterior Cruciate Ligament Injury and Reconstruction on Lower Extremity Landing Biomechanics and Asymmetry in Female Adolescents

Human Movement Science PhD Candidate, University of North Carolina, Chapel Hill, NC

Graduate Research Assistant Advising

Student: Molly Minnig August 2020- present

Injury Epidemiology PhD program, University of North Carolina, Chapel Hill, NC

Funding: R01AR072013, Golightly start-up funds

Student: Kristin Shiue August 2018- August 2020

Injury Epidemiology PhD program, University of North Carolina, Chapel Hill, NC

Funding: Gary G. and Carolyn J. Koch Merit Scholarship in Public Health, Golightly start-up funds

Student: Shahar Shmuel August 2017-August 2018

Pharmacoepidemiology PhD Candidate, University of North Carolina, Chapel Hill, NC

Funding: Golightly start-up funds

Student: Apostolos Alexandridis May 2017-August 2018

Injury Epidemiology PhD Candidate, University of North Carolina, Chapel Hill, NC

Funding: R01AR067743, Golightly start-up funds

Medical School/MD Advising

Current Master of Science in Clinical Research (MSCR)

Rachel Randell August 2020- present

Epidemiology MSCR program, University of North Carolina, Chapel Hill, NC

Current Medical Student

Daniel O'Connell June 2020-present

Medical Student, University of North Carolina, Chapel Hill, NC

2020 Rheumatology Research Foundation Medical and Graduate Student Preceptorship

Fellowship / Training Completed

Co-mentor for Rheumatology Fellow July 2019-June 2020

Rheumatology Fellow: Rami ElTaraboulsi, MD

Research: Epidemiology of foot osteoarthritis

Primary mentor: Amanda Nelson

Thurston Arthritis Research Center, University of North Carolina, Chapel Hill, NC

Co-mentor for Medical Student Training in Aging Research (MSTAR) Program March – August 2018
Medical Student: Terese Gullo, The Ohio State University
Research: Epidemiology of multijoint osteoarthritis and joint hypermobility
Primary mentor: Amanda Nelson
Thurston Arthritis Research Center, University of North Carolina, Chapel Hill, NC

Mentor for Medical Student Training in Aging Research (MSTAR) Program March 2016-April 2017
Medical Student: Allen Tsai, Northeast Ohio Medical University
Research: Foot biomechanics and physical function
Primary mentor: Yvonne Golightly
Thurston Arthritis Research Center, University of North Carolina, Chapel Hill, NC

Co-mentor for Medical Student May 2015- April 2017
Medical Student: Shahmeer Lateef, University of North Carolina
Research: Ankle osteoarthritis and joint shape
Primary mentor: Amanda Nelson
Thurston Arthritis Research Center, University of North Carolina, Chapel Hill, NC

Co-mentor for Rheumatology Fellow January 2013-June 2014
Rheumatology Fellow: Adam Doré, DO
Research: Epidemiology of falls and osteoarthritis
Primary mentor: Amanda Nelson
Thurston Arthritis Research Center, University of North Carolina, Chapel Hill, NC

Co-mentor for Medical Student Training in Aging Research (MSTAR) Program June-August 2011
Medical Student: Imran Aslam, BS (Northeast Ohio Medical School)
Primary Mentors: Joanne Jordan MD, MPH; Amanda Nelson MD, MSCR
Thurston Arthritis Research Center, University of North Carolina, Chapel Hill, NC

Co-mentor for Medical Student Training in Aging Research (MSTAR) Program June-August 2011
Medical Student: Irina Perjar, BA (University of North Carolina)
Primary Mentors: Joanne Jordan MD, MPH; Amanda Nelson MD, MSCR
Thurston Arthritis Research Center, University of North Carolina, Chapel Hill, NC

Doctor of Physical Therapy (DPT) Advising

Completed

Member of Committee for Doctor of Physical Therapy Capstone Project August 2017- May 2018
Student: Jaime Hankins
Project: Joint Hypermobility and Physical Function
Primary mentor: Michael T. Gross, PT, PhD
Thurston Arthritis Research Center, University of North Carolina, Chapel Hill, NC

Member of Committee for Doctor of Physical Therapy Capstone Project August 2016- May 2017
Student: Monica Anderson
Project: Falls Risk and Utilization of Balance Training by Physical Therapists for Adults with Symptomatic Knee Osteoarthritis: A Retrospective Data Analysis
Primary mentor: Carla Hill, DPT, PhD
Thurston Arthritis Research Center, University of North Carolina, Chapel Hill, NC

Member of Committee for Doctor of Physical Therapy Capstone Project February 2016- May 2016
Student: Annemarie Erich
Project: Interventions for osteoarthritis

Primary mentor: Michael T. Gross, PT, PhD
Thurston Arthritis Research Center, University of North Carolina, Chapel Hill, NC

Postdoctoral Advising

Completed

Mentor for Postdoctoral Research Associate August 2016 – December 2018
Mentee: Portia Flowers, PhD
Research: Racial differences in joint hypermobility, injury, and osteoarthritis
Thurston Arthritis Research Center, University of North Carolina, Chapel Hill, NC

Faculty Advising

Current

Mentor for Assistant Professor March 2020 - present
Mentee: Louise Thoma, PT, DPT, PhD
Research: Arthritis and physical activity
Division of Physical Therapy, University of North Carolina, Chapel Hill, NC

Co-mentor for Assistant Professor December 2017 - present
Mentee: Abigail Gilbert, MD
Research: Arthritis and physical activity
School of Medicine, University of North Carolina, Chapel Hill, NC

Mentor for Assistant Professor October 2016 - present
Mentee: Elizabeth Wellsandt, PT, DPT, PhD, OCS
Research: Knee injury and osteoarthritis
Division of Physical Therapy, University of Nebraska Medical Center, Omaha, NE

Completed

Co-mentor for Assistant Professor March 2016 – August 2018
Mentee: Carla Hill, DPT, MPT, OCS, Cert MDT
Research: Knee osteoarthritis
Division of Physical Therapy, University of North Carolina, Chapel Hill, NC

Other Mentoring Activities

Chair of Intradepartmental Review Committee June 2021
Student: Bhavna Singichetti
Injury Epidemiology PhD Candidate, University of North Carolina, Chapel Hill, NC

Chair of Intradepartmental Review Committee May 2021
Student: Kristin Shiue
Injury Epidemiology PhD Candidate, University of North Carolina, Chapel Hill, NC

Mentor in epidemiologic osteoarthritis research June 2020-July 2020
Student: Talyn Steinmann
Research: Assessment of Walk With Ease online portal
participation in rural and urban areas
Rising 12th grade student, North Carolina School of Science and Mathematics, Durham, NC

Member of Intradepartmental Review Committee Student: Erica Bjornstad Injury Epidemiology PhD Candidate, University of North Carolina, Chapel Hill, NC	February 2019
Member of Intradepartmental Review Committee Student: Katie Wolff Injury Epidemiology PhD Candidate, University of North Carolina, Chapel Hill, NC	May 2018
Member of Intradepartmental Review Committee Student: Shahar Shmuel Injury Epidemiology PhD Candidate, University of North Carolina, Chapel Hill, NC	March 2018
Member of Intradepartmental Review Committee Student: Apostolos Alexandridis Injury Epidemiology PhD Candidate, University of North Carolina, Chapel Hill, NC	December 2014
Member of Intradepartmental Review Committee Student: Rebecca Yau Injury Epidemiology PhD Candidate, University of North Carolina, Chapel Hill, NC	March 2014
Member of Intradepartmental Review Committee Student: Jared Parrish Injury Epidemiology PhD Candidate, University of North Carolina, Chapel Hill, NC	November 2013
Mentor in epidemiologic musculoskeletal research for 4th year undergraduate student Student: Swathi Krishnarajapet Research: Foot disorders and biomechanics Exercise and Sport Studies, Rutgers University, New Brunswick, NJ	January –March 2013
Member of Intradepartmental Review Committee Student: Karen Roos, MSPT, ATC Injury Epidemiology PhD Candidate, University of North Carolina, Chapel Hill, NC	September 2012
Faculty member of University of North Carolina Injury Epidemiology Journal Club, teaching and reviewing epidemiologic methods relevant to injury research	2012-present

GRANTS

Active (Total=8)

1-NU58-DP006980 Centers for Disease Control and Prevention - Advancing Arthritis Public Health Approaches through National Organizations OsteoArthritis Action Alliance (OAAA) To promote innovative and enduring actions and will amplify efforts to facilitate collaborative public health action to successfully reduce the significant burden of OA and other types of arthritis. Direct costs: \$1,838,235 Role: Co-Investigator/ Co-Director of Research, 5% FTE	(PI: Callahan) 9/30/2021–9/29/2026
R01AR078187 Source: National Institute of Arthritis and Musculoskeletal and Skin Diseases Title: Healthy knee aging vs. osteoarthritis in three large diverse cohorts: What	(PI: Kwoh, University of Arizona) 9/25/2021-9/24/2024

is the clinical relevance of structural changes seen on radiographs?
To establish reference standards for joint space width (JSW) in healthy knees,
identify trajectories of structural deterioration and symptoms based on
risk factors, and evaluate the clinical relevance of changes in JSW in
terms of pain and function using pooled data from three large longitudinal
observational studies of knee osteoarthritis.

Direct costs: \$170,626

Role: Co-Investigator, 7.5% FTE

No Award Number (PI: Golightly) 8/11/2021-8/10/2022

TARC/UNC Core Center for Clinical Research Pilot and Feasibility Research Grant

Source: UNC Thurston Arthritis Research Center Core Center for Clinical Research, NIH/NIAMS grant P30
AR072580

Title: Machine Learning Approaches to Inform Biomechanical Subtypes of Knee Osteoarthritis

To apply machine learning approaches to existing baseline data from participants with knee osteoarthritis (OA)
to identify patterns from the data that may suggest distinct phenotypes of knee OA.

Direct costs: \$25,000

Role: Principal Investigator, 0% FTE

R21AR075254 (PI: Wellsandt [University of Nebraska Medical Center]) 2/25/2020-1/31/2022

NIH Exploratory/Developmental Research Grant Program (R21)

Source: National Institute of Arthritis and Musculoskeletal and Skin Diseases

Title: Osteoarthritis After ACL Injury: Establishing Cumulative Joint Loading
as a Preventative Target

To identify markers that predict the earliest signs of poor joint outcomes
after anterior cruciate ligament (ACL) injury

Direct costs: \$11,730

Role: Co-Investigator, 4% FTE

P30 AR072580 (PI: Callahan) 9/1/2019-8/31/2024

Core Centers for Clinical Research (CCCR) (P30)

Source: National Institute of Arthritis and Musculoskeletal and Skin Diseases

Title: UNC Core Center for Clinical Research

The overall goal of this center is to enhance the design and conduct of
clinical studies in Rheumatic and Musculoskeletal Diseases (RMDs)
with a focus on osteoarthritis (OA), a particular strength of our
research community.

Direct costs: \$ 2,499,995

Role: Co-Investigator, 5% FTE

R21AG056568/R33AG056568 (PI: Allen) 6/1/2018 – 5/31/2022

R21/33 National Institute on Aging

Title: Physical Activity Pathway for Patients with Osteoarthritis in Primary Care

Purpose: The proposed project will develop and test an OA primary care

Physical activity Care Pathway (OA-PCP), a scalable intervention that includes:

1) a practical process for physical inactivity screening in primary care, 2) a brief,
tailored PA counseling intervention via telephone, 3) connection of patients with
community programs and other resources to support PA, and 4) follow-up with
patients to deliver additional appropriate counseling and referrals to PA resources.

Direct costs: \$238,095

Role: Co-Investigator, 5% FTE

R01AR071440 (Lead PI: Goode [Duke University], **UNC Site PI: Golightly**) 9/7/2017– 9/6/2022

Source: National Institute of Arthritis and Musculoskeletal and Skin Diseases

Title: Biomarkers to Advance Clinical Phenotypes of Low Back Pain (BACK)

Purpose: To phenotype patients underlying causes of low back pain to decrease the heterogeneity in the diagnosis of LBP. This project will conduct the first longitudinal analyses of biomarkers and the largest (n=3,146) analysis of predictive factors ever performed in the lumbar spine by capitalizing on extant data from two large existing cohorts: the Johnston County Osteoarthritis Project and Genetics of Generalized Osteoarthritis Study.

Direct costs for subcontract: \$ 478,387

Role: Co-Investigator, UNC Site Principal Investigator, 10% FTE

R01AR072013 (PI: Niethammer) 8/15/2017-7/31/2023

Source: National Institute of Arthritis and Musculoskeletal and Skin Diseases

Title: Large-scale automatic analysis of the OAI magnetic resonance image dataset

This project will develop open-source, novel and scalable computer algorithms to assess cartilage in the OAI MRI dataset, and assess cartilage characteristics as imaging biomarkers of OA progression.

Direct Costs: \$1,859,524

Role: Co-Investigator, 8% FTE

Completed (Total=20; 9 as Principal Investigator)

U01-DP006266 (co-PIs: Nelson, Golightly) 9/30/2016–9/29/2021

Centers for Disease Control and Prevention

Johnston County Osteoarthritis Project: Arthritis, Disability, and Other Chronic Diseases

This is a longitudinal population-based cohort study of risk factors for incidence and progression of osteoarthritis and disability.

Aim 2 of this study is to examine joint injury as a potentially modifiable risk factor for incidence and progression of knee and hip osteoarthritis, knee and hip symptoms, and disability and to determine whether these associations vary by race.

Direct costs: \$1,198,038

Role: Co-Principal Investigator, 10% FTE

1-NU58-DP006262 (PI: Callahan) 10/1/2016–9/30/2021

Centers for Disease Control and Prevention - Advancing Arthritis

Public Health Approaches through National Organizations

OsteoArthritis Action Alliance (OAAA)

The OAAA strives to increase awareness of the burden and health impacts of arthritis, targeting three of the areas identified in the osteoarthritis

Agenda: physical activity, weight management, and injury prevention.

Direct costs: \$ 1,466,055

Role: Co-Investigator/ Co-Director of Research, 7% FTE

R01AR067743 (PI: Golightly) 5/1/2015-4/30/2020

National Institute of Arthritis and Musculoskeletal and Skin Diseases

Title: The Role of Joint Hypermobility in Lower Body Osteoarthritis

Purpose: To rigorously assess associations of joint hypermobility, injury, and lower body osteoarthritis in the largest study (combining three large musculoskeletal cohort studies) ever conducted of participants with and without osteoarthritis.

Direct costs: \$ 1,047,410

Role: Principal Investigator, 20% FTE

W81XWH-14-DMRDP-CRMRP-NMSIRA (PI: Blackburn) 8/1/2015-7/31/2019

Clinical and Rehabilitative Medicine Research Program/Joint Program Committee 8 Neuromusculoskeletal Injuries Research Award Defense Health Program, Defense Medical Research and Development Program, Department of Defense, and Congressionally Directed Medical Research Programs

Title: Effects of local and whole body vibration on quadriceps function, proprioception, and gait biomechanics following anterior cruciate ligament injury.

Purpose: To identify methods for rehabilitation of traumatic knee injuries and prevention of post-traumatic knee OA.

Direct: \$535,754

Role: Co-investigator, 1% FTE

P60 AR062760

(PI: Callahan)

7/19/2013-6/30/2019

Multidisciplinary Clinical Research Center

Source: National Institute of Arthritis and Musculoskeletal and Skin Diseases

Title: Mitigating the Impact of Osteoarthritis

Project 2 Title: Biomarkers & Biomechanics Associated with Injury-Mediated Osteoarthritis

This application proposes a new Multidisciplinary Clinical Research Center at the Thurston Arthritis Research Center at the University of North Carolina, focusing on mitigating the public health impact of osteoarthritis (OA). The overall objective of Project 2 is to determine whether changes in lower extremity biomechanics and serum biomarkers following anterior cruciate ligament injury can be used to detect individuals at risk for injury-mediated osteoarthritis. This study will examine military cadets from the large cohort study Joint Undertaking to Monitor and Prevent Anterior Cruciate Ligament Injury (JUMP-ACL) Study. Direct costs: \$ 4,000,000

Role: Co-Investigator on Project 2 and Methodology Core, 10% FTE

1R21HD088852-01A1

(Lead PI: Golightly, PI: Smith-Ryan)

7/12/2017– 6/30/2019

Source: National Institute of Child Health and Human Development (NICHD)

Title: High Intensity Interval Training for Knee Osteoarthritis

Purpose: To improve outcomes among individuals with knee osteoarthritis using a novel exercise approach for disease management: high intensity interval training.

Direct costs: \$275,000

Role: Lead Principal Investigator, 20% FTE

R01AR067743-02S1

(PI: Golightly)

8/22/2016 – 4/30/2018

National Institute of Arthritis and Musculoskeletal and Skin Diseases

Title: Research Supplements to Promote Diversity in Health-Related

Research: Joint Hypermobility and Lower Body Osteoarthritis

Purpose: The overall goal of the parent project is to define the contribution of joint hypermobility to lower body osteoarthritis (OA). The independent research project of the postdoctoral associate Dr. Portia Flowers will examine the association of joint hypermobility and OA by race.

Direct costs: \$82,876

Role: Principal Investigator and Primary Mentor, no PI effort funded

000509380-SP004-003

(PI: Smith-Ryan)

11/23/2016–11/22/2017

REACT Center Pilot Studies Rehabilitation Research Resources to Enhance Clinical Trials

Source: University of Alabama at Birmingham

Title: High Intensity Interval Training for Knee Osteoarthritis
Purpose: To examine the feasibility of conducting a high intensity interval training (HIIT) intervention in patients with symptomatic knee OA (40-75 years old) and to obtain preliminary data on changes in physiological changes in skeletal muscle metabolism during and after HIIT.
Direct costs: \$39,642

Role: Co-Investigator, no co-I effort funded

R21AR067560 (PI: Pietrosimone) 9/1/2015-8/31/2017

National Institute of Arthritis and Musculoskeletal and Skin Diseases

Title: Improving Disability in Knee Osteoarthritis by Targeting Neuromuscular Deficits

Purpose: To report the feasibility and determine the initial effects of using transcutaneous electrical nerve stimulation to target neuromuscular activation deficits and enhance the traditional therapeutic exercise provided to knee osteoarthritis patients in physical therapy clinics.

Direct costs: \$275,000

Role: Co-investigator

CER-1306-02043 (PI: Allen) 7/1/2014-6/30/2017

Patient-Centered Outcomes Research Institute (PCORI)

Title: Physical Therapy vs. Internet-Based Exercise Training for Patients with Knee Osteoarthritis

This project will compare standard physical therapy (PT) with an internet-based exercise training program (IBET) for patients with knee osteoarthritis (OA). Both of these programs will be compared to a wait list control group (WL) that receives a program after their study assessments are complete. The project will also evaluate patient characteristics that may be associated with different levels of improvement in PT or IBET.

Direct costs: \$496,962

Role: Co-Investigator, 15% FTE

W911QY-15-1-0013 (PI: Cameron) 9/15/2015-3/14/2017

U.S. Army Medical Department Advanced Medical Technology Initiative

Title: Using a Telehealth Platform to Deliver Innovative Therapeutic Care for Military Service Members at High Risk for Post-traumatic Osteoarthritis

Purpose: To facilitate appropriate ongoing therapeutic follow-up for military service members with a history of traumatic knee joint injury.

Using an established telehealth platform, we will create a virtual knee health clinic that delivers innovative therapeutic care to limit progression to post-traumatic osteoarthritis. These methods include ongoing symptom assessment, advice regarding appropriate nutrition and weight management, maximizing physical activity while limiting joint loading, information about pharmaceuticals and intra-articular therapies, and self-management approaches to optimize joint health in this high risk population.

Direct costs: \$100,865

Role: Co-investigator, no co-I effort funded

2KR661506 (PI: Golightly) 11/1/2015-10/30/2016

NC TraCS

Title: Falls Prevention Program for Adults with Osteoarthritis

Purpose: To assess the feasibility of using Otago Exercise Program enhanced with the Arthritis Foundation's Walk with Ease among 10

osteoarthritis patients in Johnston County, North Carolina.

Total: \$2000

Role: Principal Investigator, no PI effort funded

No Award Number (PI: Callahan)

1/1/2015-9/30/2016

Arthritis Foundation

Title: OsteoArthritis Action Alliance (OAAA)

The OAAA strives to increase awareness of the burden and health impacts of arthritis, targeting three of the areas identified in the osteoarthritis Agenda: physical activity, weight management, and injury prevention.

Direct costs: \$229,992

Role: Co-Investigator, 10% FTE

UO1DP003206-01 (PI: Jordan)

9/30/2011–9/29/2016

Centers for Disease Control and Prevention

Title: The Johnston County OA Project: Arthritis and Disability

This is a longitudinal population-based cohort study of risk factors for incidence and progression of osteoarthritis and disability. Aim 3 of this study is to examine leg length inequality as a potentially modifiable risk factor for incidence and progression of knee and hip osteoarthritis, knee and hip symptoms, and disability and to determine whether these associations vary by race.

Direct costs per year: \$600,464

Role: Co-Investigator, 10% FTE

Pilot Grant Program-Planning Grant (PI: Jordan)

1/1/2014-6/30/2015

North Carolina Translational and Clinical Sciences Institute (NC TraCS)

Title: Biomarker & Biomechanical Predictors of Osteoarthritis in ACL-Injured Patients

This planning grant will establish an interdisciplinary research infrastructure designed to collect biomarker and biomechanical data on patients undergoing ACL reconstruction. This will enable us to pursue future funding opportunities, particularly clinical trials in innovative intra-articular therapies to prevent post-traumatic knee OA, in this highly competitive field that is gathering increasing attention from the NIH, the Arthritis Foundation, and private industry.

Total: \$50,000

Role: Co-investigator, no co-I effort funded

KL2TR001109 (PI: Runge)

11/1/2013-4/30/2015

NIH/NCATS

North Carolina Translational & Clinical Sciences Institute (NC TraCS)

The overall goal of this application is to combine the research strengths, resources and opportunities at UNC and new partner, RTI International, to build on the foundation established in the CTSA's last five years.

NC TraCS will work to improve human health by accelerating clinical and translational research from health science discovery to dissemination to patients and communities.

Project Title: Defining and Correcting Limb Length Inequality (LLI) in Adults with Knee or Hip Symptoms

The study will examine clinical assessment methods for LLI, determine if there is an association between foot posture (flat, normal, or high arch) and LLI, and gather preliminary data in preparation for R01 application to fund a larger LLI intervention study.

Direct costs: \$1,139,647

Role: Scholar, 75% FTE

Junior Faculty Development Award (Co-PIs: Nelson, **Golightly**) 1/1/2014-12/31/2014
Committee on Faculty Research and Study Leaves
Title: Hip Shape and Leg Length Inequality
The purpose of this project is to determine whether hip shape varies according to leg length inequality (LLI) status and by magnitude of LLI in Johnston County Osteoarthritis Project cohort study.
Total: \$7,500

Role: Co-Principal Investigator, no PI effort funded

No Award Number (Co-PIs: Callahan, **Golightly**) 10/1/2013-9/30/2014
Arthritis Foundation
Physical Activity White Paper
Solicitation of a research paper (white paper) regarding the short- and/or long-term impacts of physical activity on arthritis prevention, progression and pain management, as well as the potential economic impacts of physical activity on all forms of arthritis, and co-morbidities associated with arthritis.
Direct costs: \$92,358

Role: Co-Principal Investigator, 25% FTE

KL2TR000084 (PI: Runge) 5/19/2008 - 4/30/2014
National Institutes of Health/National Center for Advancing Translational Sciences
UNC Clinical Translational Science Award-K12 Scholars Program (KL2)
A national consortium with the goal of transforming how clinical and translational research is conducted, ultimately enabling researchers to provide new treatments more efficiently and quickly to patients.
Project Title: Defining and Correcting Limb Length Inequality (LLI) in Adults with Knee or Hip Symptoms
The study will examine clinical assessment methods for LLI, determine if there is an association between foot posture (flat, normal, or high arch) and LLI.
Direct costs: \$2,090,864

Role: Scholar, 75% FTE

Postdoctoral Fellowship Renewal Award (PI: **Golightly**) 9/1/2012-8/31/2013
Arthritis Foundation
Quality of a Foot Outcome Measure in a Community-Based Osteoarthritis Study
The purpose of the proposed project continuation is to identify foot disorders (from physical examination data) and foot types (from biomechanical data) associated with foot symptoms and functional limitations (from the Foot and Ankle Outcome Score [FAOS]) in the Johnston County Osteoarthritis Project.
Direct costs: \$50,000

Role: Principal Investigator, 50% FTE

Postdoctoral Fellowship Award (PI: **Golightly**) 9/1/2010-8/31/2012
Arthritis Foundation
Quality of a Foot Outcome Measure in a Community-Based Osteoarthritis Study
The purpose of this study is to examine the reliability and validity of the Foot and Ankle Outcomes Score (FAOS) to determine whether it is a

useful questionnaire among a large, community-based sample of African American and Caucasian men and women 50+ years old from the Johnston County Osteoarthritis Project.

Training and results from this project led to the current Arthritis Foundation Fellowship Renewal Award.

\$50,000 (Direct)

Role: Principal Investigator, 100% FTE

Arthritis and Immunology NIH T-32 Training Grant AR-07416

8/23/2006-8/27/2010

National Institutes of Health

This research examined joint injury and osteoarthritis, biomarkers of osteoarthritis, leg length inequality, and foot problems in the Johnston County Osteoarthritis Project.

Predocctoral Stipend of \$20,000/year

Role: Trainee

Mentor: Joanne M. Jordan, MD, MPH; Dissertation Advisor: Stephen W. Marshall, PhD

PROFESSIONAL SERVICE

University

North Carolina Translational and Clinical Sciences (NC TraCS) Institute Pilot Study Section 2021-present

Task Force Member for the development of the UNC Sport Medicine Institute 2019-present

Member of University of North Carolina Epidemiology Admissions Committee 2017-present

Member of 2-person subcommittee to design and score University of North Carolina Injury Epidemiology Qualifying Examination for doctoral students 2015-present

Member of University of North Carolina Epidemiology Graduate Studies Committee 2014-2016

Member of 3-person subcommittee to design and score University of North Carolina Epidemiology Methods Qualifying Examination for doctoral students 2014

National/International

Co-Chair, Association of Rheumatology Professionals Governance Task Force 2021-present

Associate Editor for *Osteoarthritis and Cartilage* 2021-present

Member of American College of Rheumatology Committee on Ethics and Conflict of Interest 2020-present

Member of NIH/NIAMS Data & Safety Monitoring Board 2018-present

Member of Rheumatology Research Foundation Portfolio Review Panel 2018

Member of American College of Rheumatology Early Career Investigators Subcommittee 2017-2020

Faculty Mentor, United States Bone and Joint Initiative Young Investigators Initiative Grant Mentoring & Career Development Program 2017-present

Member of Editorial Board for *Arthritis Care & Research* 2016-present

Member of Osteoarthritis Action Alliance Steering Committee 2015-present

Member of Editorial Board for *Osteoarthritis and Cartilage* 2012-2020

Yvonne M. Golightly

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11/03/2021

Reviewer of abstracts submitted to Osteoarthritis Research Society International	2016-present
Reviewer of abstracts submitted to Epidemiology and Research Methodology Sections for the American College of Rheumatology/ Association of Rheumatology Professionals Annual Scientific Meetings	2011-present
Member of American College of Rheumatology Abstract Oversight Selection Subcommittee	2014-2017
Reviewer of abstracts submitted to Society for Epidemiologic Research	2015
Member of Arthritis Foundation Physical Activity Expert Panel	2014-2015
Advisor on Brief Educational Tool To Enhance Recovery (BETTER) from Pain, Hartford Foundation Collaborative Pilot Project	2014-2015
Member of Osteoarthritis Research Society International Randomized Controlled Trial Guidelines, Clinical Trials Diet-Exercise workgroup and Clinical Trials Implementation workgroup	2013-2015
Member of Osteoarthritis Action Alliance Injury Prevention, Physical Activity, and Obesity Workgroups	2013-2015
American College of Rheumatology Quality of Care Committee	2011-2014
Member of voting panel of the American Academy of Orthopaedic Surgeons (AAOS) Appropriate Use Criteria for Non-Arthroplasty Treatment of Osteoarthritis of the Knee	2013
Arthritis Foundation Arthritis Walk Organizing Committee Member and Team Captain	2009-2013
Advisor to the Arthritis Foundation's Walk with Ease Online Program Development	2012
American College of Rheumatology/ Association of Rheumatology Health Professionals 2011 Annual Scientific Meeting Program Subcommittee	2010-2011
Association of Rheumatology Health Professionals Research Committee	2008-2010
<u>Grant Review</u>	
Reviewer, Rheumatology Research Foundation	2021
Reviewer, NC TraCS Pilot Study Section	2021-present
Reviewer, NC TraCS Internal K Selection Committee	2019, 2020, 2021
Reviewer NIH/NICHD Special Emphasis Panel/Scientific Review Group	2017, 2018, 2019, 2020
Panel Member, 2019 Congressionally Directed Medical Research Programs, Peer Reviewed Medical Research Program (PRMRP), Discovery Award	2019
Ad Hoc Reviewer NIH/NIAMS Scientific Review Group Arthritis and Musculoskeletal and Skin Diseases Clinical Trials Review Committee	2018
Reviewer Department of Defense Congressionally Directed Medical Research Program (CDMRP) arthritis and post-traumatic osteoarthritis pre-application (PRE-ART-PTOA)	2017, 2018

Reviewer of Arthritis Foundation 2015 Delivering on Discovery	2015
Reviewer for Arthritis Research UK Project Grant	2011-2015
Reviewer for Arthritis Society Canada Letters of Intent for Strategic Operating Grants	2014
Reviewer for Arthritis Foundation Investigator Awards and Arthritis Foundation Innovative Research Grants	2013
Reviewer for National Athletic Trainers Association Research and Education Foundation	2013, 2017
Reviewer for Arthritis Foundation New Investigator Award	2010-2012
<u>Reviewer for Professional Journals</u>	
Reviewer for <i>Preventing Chronic Disease</i>	2021-present
Reviewer for <i>ACR Open</i>	2020-present
Reviewer for <i>Arthritis Research & Therapy</i>	2017-present
Reviewer for <i>BMC Musculoskeletal Disorders</i>	2014-present
Reviewer for <i>Seminars in Arthritis and Rheumatism</i>	2013-present
Reviewer for <i>Journal of Rheumatology</i>	2011-present
Reviewer for <i>Arthritis and Rheumatology</i>	2011-present
Reviewer for <i>Arthritis Care and Research</i>	2010-present
Reviewer for <i>Osteoarthritis and Cartilage</i>	2007-present