WAKE FOREST UNIFERSITY SCHOOL OF MEDICINE
Curriculum Vitae

NAME Garrett Scott Bullock, PT, DPT, DPhil

CITIZENSHIP United States

ADDRESS Department of Orthopaedic Surgery
Wake Forest University School of Medicine
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EDUCATION

2009	Wake Forest University Winston-Salem, North Carolina Bachelor of Arts in History
2017	Duke University Durham, North Carolina Doctor of Physical Therapy
2021	University of Oxford Wolfson College Oxford, United Kingdom Doctor of Philosophy (DPhil) Research Advisor(s): Nigel Arden, MD, Gary Collins, PhD, Dr. Stephanie Filbay, PT, PhD. Thesis: An Epidemiological Study of Health, Arm Injury, and Long-Term Outcomes in Baseball Players

FELLOWSHIPS & VISITING PROFESSORSHIPS

2026-2027	Aspetar Faculty Visiting Fellowship Development of Prospective Young Athlete's Hip Registry Doha, Qatar
2027	Fulbright-University of Innsbruck Visiting Professor Data Science for Health: Developing Skills and Sustainable Solutions in a Modern Health World Innsbruck, Austria

PROFESSIONAL LICENSURE

2017-present	Virginia Physical Therapy License

SPECIALTY CERTIFICATION

2017-present	Certified Dry Needling
2017-present	ASTYM
2017-present	Selective Functional Movement Assessment (SFMA)-Level 1
2017-present	Functional Movement Systems Y-Balance
2017-present	Functional Movement Systems FMS Level One
2017-present	Functional Movement Systems Fundamental Capacity Screen

EMPLOYMENT

Academic Appointments

2018-2021	DPhil Student, Nuffield Department of Orthopaedics, Rheumatology, and Musculoskeletal Sciences, University of Oxford
2018-Present	Research Associate, Versus Arthritis, Centre for Sport, Exercise, and Osteoarthritis, University of Oxford
2021-Present	Associate Faculty, Department of Biomedical Engineering, Wake Forest University School of Medicine
2021-Present	Associate Faculty, Center for Biomedical Informatics, Wake Forest University School of Medicine
2021-2022	Instructor, Department of Orthopaedic Surgery and Rehabilitation Wake Forest University School of Medicine
2022-Present	Assistant Professor, Department of Orthopaedic Surgery and Rehabilitation, Wake Forest University School of Medicine
2022-Present	Associate Faculty, Department of Biostatistics and Data Science, Wake Forest University School of Medicine
2022-Present	Adjunct Assistant Professor of Health and Wellness, Dr. Jo Watts Williams School of Education, Elon University
2022-Present	Adjunct Assistant Professor, Sport Injury Prevention Research Center, University of Calgary
2024-Present	Adjunct Assistant Professor, Department of Exercise Science, University of North Carolina Chapel Hill
2024-Present	Research Associate, Department of Epidemiology, School of Global Public Health, University of North Carolina Chapel Hill

Professional Experience

2009-2014	Player, Minor League Professional Baseball, Houston Astros, Evansville

	Otters, Trois-Rivieres Aigles
2017-2018	Team Leader, Clinic Director, Mountain River Physical Therapy
2016-Present	Statistical Consultant
2021-Present	Invited Consultant, ATI Physical Therapy Youth Injury Prevention
2021-Present	Co-Founder, Aletheia Statistical Consulting Group
2021-Present	Invited Consultant, Major League Baseball Draft
2021-Present	Invited Consultant, Major League Baseball Players' Association, Data Protection
2021-Present	Invited Consultant, Major League Baseball, International Signing
2023-Present	Invited Consultant, National Basketball Association, Injury Prevention
2023-Present	Invited Consultant, Royal Navy, Injury Prevention
2023-Present	Invited Consultant, International Olympic Committee, Female Athlete Injury Prevention

EXTRAMURAL APPOINTMENTS AND SERVICE

2019-2023	Steering Group Member, Osteoarthritis Research International (OARSI), Sport, Exercise, and Physical Activity
2021-2023	Advisory Group Member, Osteoarthritis Research International (OARSI), Hand Osteoarthritis Research
2021-2023	International Consensus Group Member, OPTIKNEE
2021-2024	Chair, United Kingdom & United States Military Injury Consensus Steering Group
2021-Present	International Expert, Major League Baseball Draft
2023-Present	International Expert, Royal Navy Injury Prevention Committee
2023-Present	Chair, Open Science in Sport International Consensus Steering Group
2023-Present	International Expert, National Basketball Association Expert Advisory Committee League-Wide Biomechanical Assessment for Injury Prevention
2023-Present	International Expert, Wartburg College Sport Science and Analytics Graduate Program Development; International Expert
2023-Present	International Consensus Group Member, International Olympic Committee Female Athlete Injury Prevention (FAIR) Consensus
2024-Present	Group Member, Osteoarthritis Research International (OARSI), Early Career Committee
2025-Present	Group Member, Five Eyes Intelligence Alliance, Work Package Assignment:

Supporting Force Resilience through a Health Systems Approach

2025-Present Group Member, Physical Therapy Foundation, Grant Reviewer

ADMINISTRATIVE SERVICE

Institutional Service

2024 Vice Chair, Surgical Science Research Day Committee

2025-Present Chair, Surgical Science Research Day Committee

Departmental Service

2021-2024 Committee Member, Sport Physical Therapy Residency & Fellowship Development Committee

2021-Present Committee Member, Data Management and Research Committee

2021-Present Committee Member, Musculoskeletal Research Committee

2021-Present Committee Member, Clinician Science Admissions Committee

2024-Present Committee Member, Orthopaedic Research Advisory Council

EXTRAMURAL APPOINTMENTS AND SERVICE

Journal Reviewer

2016-Present Journal of Athletic Training

2016-Present Journal of Strength and Conditioning Research

2017-Present Journal of Sport Rehabilitation

2017-Present International Journal of Performance Analysis in Sport

2018-Present Journal of Physical Therapy in Sport

2018-Present PLoS One

2019-Present Translational Sports Medicine

2019-Present Journal of Science and Medicine in Sport

2019-Present American Journal of Sports Medicine

2020-Present Journal of Shoulder and Elbow Surgery

2020-Present Sports Medicine

2020-Present Journal of Motor Control

2021-Present	British Journal of Sports Medicine
2021-Present	JAMA Open
2021-Present	Substance Use & Misuse
2022-Present	BMC Sport Science, Medicine, and Rehabilitation
2022-Present	Arthroscopy
2022-Present	Frontiers in Public Health
2022-Present	JAMA Pediatrics
2024-Present	European Heart Journal – Digital Health

PROFESSIONAL MEMBERSHIPS AND SERVICE

Professional Membership

2014-Present	American Physical Therapy Association
2014-Present	American Academy of Sports Physical Therapy
2014-Present	American Academy of Orthopaedic Physical Therapy
2019-Present	American Shoulder Society of Shoulder and Elbow Therapists
2019-Present	Osteoarthritis Research Society International

Promotion and Tenure Examinations

2021 Promotion and Tenure External Examiner, Christie, Jo-Ann. Rhodes University, South Africa. National Research Foundation (NRF) South Africa.

Doctor of Philosophy External Examinations

2020 External Committee Examiner, Edwards, Peter. University of Western Australia, Australia. Exercise rehabilitation and functional recovery following reverse total shoulder arthroplasty.

2024 External Committee Examiner, Mine, Koya. University of South Australia, Australia. Associations between upper trunk rotation kinematics, trunk functions and arm fatigue in baseball pitching.

2024 External Committee Examiner, Lopes, Yuri. Griffith University. Anterior cruciate ligament injury prevention in women's football.

Masters' of Science External Examinations

2021 External Committee Examiner, Jacobs, Jacoby. University of the Witwatersrand, South Africa. Prevalence and incidence systematic review of injuries amongst female cricketers.

Transitional Doctor of Physical Therapy Committee Member

2020	Research Committee Member, Kennedy, June. University of North Carolina Chapel Hill. A systematic review of reverse total shoulder arthroplasty clinical and patient-reported outcomes and complications stratified by pre-operative diagnosis.

Clinical Practice Guideline Reviewer

2022	Committee Member, Physical therapist management of glenohumeral joint osteoarthritis: A clinical practice guideline from the American Physical Therapy Association.
2022	Committee Member, Management of glenohumeral joint osteoarthritis: American Orthopaedic Society for Sports Medicine.

HONORS AND AWARDS

2005-2009	Four Year Letter Winner, Baseball, Wake Forest University
2005-2009	E.K. Rogers Endowed Scholarship for Christian Athletic Leadership, Wake Forest University
2006-2009	Atlantic Coast Conference Leader in Pickoffs
2007	Drafted by Arizona Diamondbacks
2009	Team Captain, Wake Forest Baseball Team
2010	Houston Astros Minor League Pitcher of the Year
2014	Faculty Liaison, Department of Physical Therapy, Duke University
2015-2017	Class President, Department of Physical Therapy, Duke University
2017	Degree Marshall, Department of Physical Therapy, Duke University
2018-2021	Clarendon Scholar, University of Oxford
2019	Sports Medicine Australia Clinical Sports Medicine Award. ASICS Sports Medicine Australia Conference - Finalist
2021	Outstanding Platform: North America Caribbean Region. World Physiotherapy Congress
2022	American Physical Therapy Association Best Research in Sports Physical Therapy, Two Separate Research Studies for same award - Finalist
2022	American Physical Therapy Association Best Research in Sports Physical Therapy, Two Separate Research Studies for same award – Finalist
2023	Best Early Career Platform Presentation. World Physiotherapy Congress
2023	CIHR-IMHA, Research Excellence Prize in the team science category for the OPTIKNEE consensus

2023	Major League Baseball best research paper of the year finalist
2024	Emerging Leader Award, Duke University School of Medicine, Physical Therapy
2026	Wake Forest University School of Medicine, Early Career Research Award

GRANT FUNDING

Currently Active Grants

NIH: Ro1 (Joel Stitzel, PI, 15% effort) — 5/1/2025-4/30/2030
Intervention program to reduce head impacts in youth ice hockey — $3.0 million / Direct Cost
Role: Co-Investigator, Provide epidemiological and statistical support
Collaborators: Jillian Urban, Joel Stitzel

CDMRP-PRORP, Department of Defense (Bullock, PI, 25% effort) — 9/1/2025-8/30/2028
Health Care Trajectories Leading to Treatment Disparities — $1.25 million/ Direct Cost
For Musculoskeletal Hip Pain in Female Service Members
Award Number: OR240316
Role: Principal Investigator
Collaborators: Dan Rhon, Michael Reiman

NIH: Ro1 (Jillian Urban, PI, 15% effort) — 9/1/2024-8/30/2029
Intervention program to reduce head impacts in youth football players — $3.1 million / Direct Cost
Role: Co-Investigator, Provide epidemiological and statistical support
Collaborators: Jillian Urban, Joel Stitzel

Directed Medical Research Program (CDMRP) (Dan Rhon, P.I., 10% effort) — 9/1/2024-8/30/2028
PRECISe RTD Trial — $6.8 million / Direct Cost
PRECISion with Return to Duty decisions in the military
Role: Co-Investigator, Provide Statistical Support
Collaborators: Dan Rhon, Gen. Deydre Teyhen

Directed Medical Research Program (CDMRP) (Tim Sell, PI, 25% effort) — 8/1/2024-7/31/2028
Head Supported Mass Injury Prevention — $6.5 Million / Direct Cost
Role: Co-Investigator, Statistical Support
Collaborators: Tim Sell (Atrium Charlotte, Department of Orthopaedics)

British Association of Sports Medicine (Co-PI, 0% effort) — 3/1/2025-2/28/2026
Open Science in Sport — 25,000 GBP/ Direct Cost
Role: Co-Principal Investigator
Collaborators: Stefan Kluzek

United Kingdom Versus Arthritis (Co-PI, 0% effort) — 4/1/2025-3/30/2026
Centre for Sport Exercise, and Osteoarthritis — 18,800 GBP/ Direct Cost
Creating a Knowledge User Centered
Open Science Analytical Program
Role: Co-Principal Investigator
Collaborators: Stefan Kluzek

Childress Foundation (David Poppoli, PI, 0% effort) — 2/1/2025-1/30/2026
Seeing the Future: Pupillometry as a Diagnostic Tool for Concussion
Role: Co-Investigator, Provide epidemiological and statistical support
Collaborators: David Poppoli, Kerry Danelson

Canadian Institute of Health (Carolyn Emery, PI, 0% effort) — 9/1/2025-8/30/2029

You-CAN SHRED Concussions Program — $1.5 million CAD/ Direct Cost
Role: Co-investigator; Provide Statistical Support
Collaborators: Carolyn Emery, Kay Crossley

Department of Defense (Rachel Seymour, PI, 5% effort) — 09/2023-09/2027
Primary Subtalar Arthrodesis for Calcaneal Fractures to Optimize Performance: A Randomized Clinical Trial — $2,486,254 / Direct Cost
Role: Co-investigator; Provide Statistical Support
Collaborators: Rachel Seymour

Medical Technology Enterprise Consortium (Rachel Seymour, PI, 5% effort) — 08/2025-10/2028
Novel Strategies to Prevent and Treat Infection in Severe Fracture — $3,682,997 / Direct Cost
Role: Co-investigator; Provide Statistical Support
Collaborators: Rachel Seymour

Canadian Brain Health Institute (Stephen West, PI, 0% effort) — 1/1/2026-12/31/2028
Previous experience in collision sport: Friend or foe for future concussion risk — $100,000 CAD/ Direct Cost
Role: Co-investigator; Provide Statistical Support
Collaborators: Stephen West, Carolyn Emery

Department of Defense (Rachel Seymour, PI, 2.5% effort) — 08/2025-10/2028
Calcium Sulfate Prophylactic Use in Orthopaedic Trauma — $3,500,000 / Direct Cost
Role: Co-investigator; Provide Statistical Support
Collaborators: Rachel Seymour

Department of Defense (Rachel Seymour, PI, 2.3% effort) — 08/2025-10/2028
Recovery Trajectories Following Distal Femur Fracture — $3,500,000 / Direct Cost
Role: Co-investigator; Provide Statistical Support
Collaborators: Rachel Seymour

Department of Defense (Rachel Seymour, PI, 2.3% effort) — 08/2025-10/2028
Treatment of OI Hand Trauma Injuries — $3,500,000 / Direct Cost
Role: Co-investigator; Provide Statistical Support
Collaborators: Li Hsu

Department of Defense (Rachel Seymour, PI, 2.3% effort) — 08/2025-10/2028
Hazard of Nonunion in Trauma Foot Fractures — $3,500,000 / Direct Cost
Role: Co-investigator; Provide Statistical Support
Collaborators: Meghan Wally

Pending Grants

Canadian Institute of Health (Stephen West, PI, 0% effort) — 12/1/2025
Co-production of collision sport injury prevention program — $500,000 CAD/ Direct Cost
Role: Co-investigator; Provide Statistical Support
Collaborators: Stephen West, Carolyn Emery

Australian Defense Strategic Policy Grant (Walker-Bone, PI, 0% effort) — 12/1/2025
Preventing musculoskeletal disorders to maximise resilience in ADF personnel — 500,000 AUD/ Direct Cost
Role: Co-investigator; Provide Statistical Support
Collaborators: Karen Walker-Bone, Joanne Fallowfield

Canadian Transdisciplinary Connector Grant (Stephen West, PI, 0% effort) 11/15/2025
Applying a sports approach to head impact evaluation in Calgary Police
Role: Co-investigator; Provide Statistical Support
Collaborators: Stephen West, Carolyn Emery

Canadian Frontiers in Research (Carolyn Emery, PI, 5% effort) 5/25/2025
You-CAN SHRED Concussions Program $1.5 million CAD/ Direct Cost
Role: Co-investigator; Provide Statistical Support
Collaborators: Carolyn Emery, Kay Crossley

National Football League (Carolyn Emery/Garrett Bullock, Co-PI's, 15% effort) 3/1/2025
Reducing Injuries in Grassroots Rural Football Teams $1.2 million / Direct Cost
Role: Co-Principal Investigator
Collaborators: Carolyn Emery

National Institute of Health: UG3/UH3 7/2/2025
Preventing Musculoskeletal Injuries in Rural High Schools $6.1 million / Direct Cost
Role: Principal Investigator
Collaborators: Stephen Marshall, Kristen Kucera

Past Grant History

Smith & Nephew (Aaron Scott, P.I., 7% effort) 7/1/2021-9/1/2021
Tibiotalocalcaneal arthrodesis using an intramedullary nail $19,995 / Direct Cost
Provided statistical and epidemiological support
Role: Co-Investigator, Provide Statistical and Epidemiological Support
Collaborators: Aaron Scott

Major League Baseball Draft (Bullock, PI, 0% effort) 7/1/2021-9/1/2021
Developing an injury and health data collection strategy $20,000 / Direct Cost
Role: Principal Investigator
Collaborators: None

Toyota Racing (Joel Stitzel, PI, 20% effort) 11/15/2021-3/15/2022
Influence of sub-concussive impacts on neuro-physical testing $250,000 / Direct Cost
Role: Co-Investigator, Provide Statistical Support
Collaborators: Joel Stitzel, Jillian Urban

National Physical Therapy Foundation (Bullock, PI, 51% effort) 7/1/2022-6/31/2023
'CoHSTAR' Faculty Fellowship
Assessing falls risk in orthopaedic populations $67,500 / Direct Cost
Role: Principal Investigator, Project Lead
Collaborators: Pamela Duncan, Christine McDonough

US Army Research Laboratory (Danelson, PI, 1% effort) 2/4/2019-2/3/2022
W911NF-19-2-0032, Subaward $231,059 / Direct Cost
Ohio State University
Influence of footwear and foot characteristics on blast injury prevention
The goal of this research effort is to determine how the issued
combat boot interacts with foot during high rate loading.
Collaborators: Kerry Danelson
Role: Co-Investigator, Provide Statistical Support
Collaborators: Kerry Danelson

Versus Arthritis (Bullock, PI, 0% effort) 1/15/2022-3/30/2023
United Kingdom & United States Injury Consensus Meeting $6,661 / Direct Cost
Role: Co-Principal Investigator
Collaborators: Nigel Arden, Dan Rhon, Joanne Fallowfield

BERD (Jaime Speiser, PI, 0% effort) 4/1/2022-3/29/2023
Grant #UL1TR001420 $10,000 / Direct Cost
Predictor selection in random forest models using continuous outcomes
Role: Co-Investigator, Statistical and Clinical Translation
Collaborators: Jamie Speiser, Nathan O'Connell, Byron Jaeger

GTS# 50903, Toyota Racing (Joel Stitzel, PI, 10% effort) 3/15/2022-3/31/2023
Influence of sub-concussive impacts on neuro-physical testing $250,000 / Direct Cost
Role: Co-Investigator, Provide Statistical Support
Collaborators: Jillian Urban, Joel Stitzel

Smith & Nephew (Shields, PI, 4.4% effort) 8/1/2022 - 7/31/2023
Smith & Nephew – Adult Reconstruction Fellowship Program $34,000 / Direct Cost
Role: Co-Investigator, Provide Statistical Support

Colorado Rockies Baseball Club (PI, 0% effort) 1/1/2023-12/30/2023
Assessing usability and implementation of an arm injury $20,000 / Direct Cost
Prediction algorithm
Role: Principal Investigator
Collaborators: Charles Thigpen, Ellen Shanley, Thomas Noonan, Michael Kissenberth

NATA, (Laurie Devaney, PI, 0% effort)
Grant #2122NIP01 5/22/2022-10/1/2024
Pre-season neck mobility and injury risk in College Baseball Pitchers $23,001 / Direct Cost
Role: Co-Principal Investigator; South Research Coordinator
Collaborators: Laurie Devaney, Charles Thigpen, Ellen Shanley, Tim Sell

AOSSM Playmaker's Grant (Kristen Nicholson, P.I., 0% effort) 7/15/2023-7/1/2024
Explore elbow varus torque using novel wearable technology $25,000 / Direct Cost
Role: Co-Investigator, Provide Statistical Support
Collaborators: Kerry Danelson, Brian Waterman

Major League Baseball (PI, 20% effort) 6/1/2023-5/30/2024
Feasibility of implementing wearable biomechanical technology
Summer league baseball Wake Forest Award: $60,000 / Direct Cost
Role: Principal Investigator Total Grant: $250,000 / Direct Cost
Collaborators: Kristen Nicholson, Franco Impellizzeri, Patrick Ward, Ellen Shanley, Charles Thigpen

United States Congress MIRROR Initiative (Bullock, Co-PI, 30% effort) 8/1/2023–7/30/2024
Military Musculoskeletal Injury Surveillance, Reporting and Prevention Consensus Wake Forest Award: $57,000 / Direct Cost
Total Grant: $500,000 / Direct Cost
Role: Co-Principal Investigator, Chair and Co-Lead Consensus Initiative
Collaborators: Nigel Arden, Dan Rhon, Joanne Fallowfield

NIH R 21, HD108530 (Jillian Urban, PI, 5% effort) 12/1/2021-11/31/2024
Utilizing head motion measurements integrated with clinical $275,000 / Direct Cost
outcomes to inform post-concussion return to play protocols in gymnastics
Role: Co-Investigator, Provide Statistical Support
Collaborators: Jillian Urban, Joel Stitzel

R03 HD104894, NICHD (Jillian Urban, PI, 0% effort) 04/01/21-07/31/2024

Development of a Biomechanically-Based Post-Concussion Return to Play Protocol for Gymnasts — $50,000 / Direct Cost
Role: Co-Investigator, Provide Statistical Support
Collaborators: Jillian Urban, Joel Stitzel

Childress Foundation (Jillian Urban, PI, 2% effort) — 2/1/2024-1/30/2025
Intervention program to reduce head impacts in youth football players — $49,973 / Direct Cost
Role: Co-Investigator, Provide epidemiological and statistical support
Collaborators: Jillian Urban, Joel Stitzel

Major League Baseball (PI, 23% effort) — 5/1/2024-4/30/2025
Screen to Succeed: Difference in Differences for Arm Injury Reduction — Wake Forest Award: $59,000 / Direct Cost
Role: Principal Investigator — Total Grant: $5.7 Million/ Direct Cost
Collaborators: Phil Plisky, Jake Beiting

BIBLIOGRAPHY

Peer-Reviewed Publications

1. Butler RJ, **Bullock GS**, Arnold T, Plisky P, Queen R. Competition-Level Differences on the Lower Quarter Y-Balance Test in Baseball Players. J Athl Train. 2016; 51(12):997-1002. doi: 10.4085/1062-6050-51.12.09. PMID: 27849388; PMCID: PMC5264565.
2. **Bullock GS**, Schmitt AC, Chasse P, Little BA. Diehl LH, Butler RJ. Heart rate response between different pitch types in collegiate baseball pitchers. Int J Perform Anal Sport. 2017;11;1-9. doi: https://doi.org/10.1080/24748668.2017.1399324
3. **Bullock GS**, Brookreson N, Knab AM, Butler RJ. Examining Fundamental Movement Competency and Closed-Chain Upper-Extremity Dynamic Balance in Swimmers. J Strength Cond Res. 2017 Jun; 31(6):1544-1551. doi: 10.1519/JSC.0000000000001627. PMID: 28538303.
4. Harnish CR, **Bullock GS**, Hendrix S, Baumann J. Physical, Performance, and Functional Movement Characteristics of NCAA Division III Women's Soccer and Volleyball Players. ARC Journal of Research in Sports Medicine. 2017; 2(1): 27-33.
5. **Bullock GS**, Schmitt AC, Shutt JM, Cook G, Butler RJ. Kinematic and kinetic variables differ between kettlebell swing styles. Int J Sports Phys Ther. 2017 Jun; 12(3):324-332. PMID: 28593086; PMCID: PMC5455182.
6. **Bullock GS**, Kraft L, Amsden K, Gore W, Prengle B, Wimsatt J, Ledbetter L, Covington K, Goode A. The prevalence and effect of burnout on graduate healthcare students. Can Med Educ J. 2017 Jun 30; 8(3):e90-e108. PMID: 29098051; PMCID: PMC5661741.
7. **Bullock GS**, Schmitt AC, Chasse PM, Little BA, Diehl LH, Butler RJ. The Relationship between Trunk Rotation, Upper Quarter Dynamic Stability, and Pitch Velocity. J Strength Cond Res. 2018 Jan; 32(1):261-266. doi: 10.1519/JSC.0000000000001772. PMID: 28225709.
8. Peters SD, **Bullock GS**, Goode AP, Garrigues GE, Ruch DS, Reiman MP. The success of return to sport after ulnar collateral ligament injury in baseball: a systematic review and meta-analysis. J Shoulder Elbow Surg. 2018 Mar; 27(3):561-571. doi: 10.1016/j.jse.2017.12.003. PMID: 29433647.
9. Chasse P, **Bullock GS**, Schmitt AC, Little BA, Diehl LH, Butler RJ. The relationship between trunk rotation, upper quarter dynamic stability, and Kerlan-Jobe orthopaedic clinic overhead athlete shoulder and elbow score in division I collegiate pitchers. Int J Sports Phys Ther. 2018 Aug; 13(5):819-827. PMID: 30276014; PMCID: PMC6159496.
10. Peters S, **Bullock GS**, Goode A, Garrigues GE, Ruch DS, Reiman MR. The Success of Return to Sport after Ulnar Collateral Ligament Injury in Baseball: A Systematic Review and Meta-Analysis. J Shoulder Elbow Surg. 2018; 27; 561-571. doi: 10.1016/j.jse.2017.12.003 PMID: 29433647.
11. **Bullock GS**, Chapman T, Joyce T, Prengle R, Stern T, Butler RJ. Examining Differences in Movement Competency in Professional Baseball Players Born in the United States and Dominican Republic. J Sport Rehabil. 2018; 27(5):397-402. doi: 10.1123/jsr.2016-0251. PMID: 28605316.

12. Helmkamp JK, **Bullock GS**, Amilo NR, Guerrero EM, Ledbetter LS, Sell TC, Garrigues GE. The clinical and radiographic impact of center of rotation lateralization in reverse shoulder arthroplasty: a systematic review. J Shoulder Elbow Surg. 2018 Nov; 27(11):2099-2107. doi: 10.1016/j.jse.2018.07.007. PMID: 30340806.
13. Coughlin RP, **Bullock GS**, Shanmugaraj A, Sell TC, Garrigues GE, Ledbetter L, Taylor DC. Outcomes after Arthroscopic Rotator Interval Closure for Shoulder Instability: A Systematic Review. Arthroscopy. 2018 Nov; 34(11):3098-3108.e1. doi: 10.1016/j.arthro.2018.05.042. PMID: 30297156.
14. **Bullock GS**, Faherty MS, Ledbetter L, Thigpen CA, Sell TC. Shoulder Range of Motion and Baseball Arm Injuries: A Systematic Review and Meta-Analysis. J Athl Train. 2018 Dec; 53(12):1190-1199. doi: 10.4085/1062-6050-439-17. PMID: 30525937; PMCID: PMC6365063.
15. **Bullock GS**, Arnold TW, Plisky PJ, Butler RJ. Basketball Players' Dynamic Performance across Competition Levels. J Strength Cond Res. 2018 Dec; 32(12):3528-3533. doi: 10.1519/JSC.0000000000001372. PMID: 26854789.
16. Gourlay J, **Bullock GS**, Weaver A, Matsel K, Kiesel K, Plisky P. The reliability and criterion validity of a novel Dorsiflexion Range of motion screen. Athletic Training & Sports Health Care. 2019;12(1), 40–44. doi: 10.3928/19425864-20190214-02.
17. **Bullock GS**, Garrigues GE, Ledbetter L, Kennedy J. A Systematic Review of Proposed Rehabilitation Guidelines Following Anatomic and Reverse Shoulder Arthroplasty. J Orthop Sports Phys Ther. 2019; 49(5):337-346. doi: 10.2519/jospt.2019.8616. PMID: 31021690.
18. Krysak S, Harnish CR, Plisky PJ, Knab AM, **Bullock GS**. Fundamental movement and dynamic balance disparities among varying skill levels in golfers. Int J Sports Phys Ther. 2019; 14(4):537-545. PMID: 31440406; PMCID: PMC6670059.
19. **Bullock GS**, Garrigues GE, Ledbetter L, Kennedy J. Rehabilitation for Anatomic and Reverse Total Shoulder Arthroplasty: A Systematic Review. J Orthop Sports Phys Ther. 2019;49(5):337-346. doi: 10.2519/jospt.2019.8616. PMID: 31021690
20. **Bullock GS**, Panagodage-Perera NK, Murray A, Arden NK, Filbay SR. Relationship between cricket participation, health and well-being: scoping review protocol. BMJ Open. 2019;9(11):e032070. doi: 10.1136/bmjopen-2019-032070. PMID: 31712345; PMCID: PMC6858230.
21. **Bullock GS**, Collins GS, Peirce N, Arden NK, Filbay SR. Physical activity and health-related quality of life in former elite and recreational cricketers from the UK with upper extremity or lower extremity persistent joint pain: a cross-sectional study. BMJ Open. 2019;9(11):e032606. doi: 10.1136/bmjopen-2019-032606. PMID: 31719092; PMCID: PMC6858171.
22. Cai H, **Bullock GS**, Sanchez-Santos MT, Peirce N, Arden NK, Filbay SR. Joint pain and osteoarthritis in former recreational and elite cricketers. BMC Musculoskelet Disord. 2019;20(1):596. doi: 10.1186/s12891-019-2956-7. PMID: 31830981; PMCID: PMC6909456.
23. Small SR, **Bullock GS**, Khalid S, Barker K, Trivella M, Price AJ. Current clinical utilisation of wearable motion sensors for the assessment of outcome following knee arthroplasty: a scoping review. BMJ Open. 2019;9(12): e033832. doi: 10.1136/bmjopen-2019-033832. PMID: 31888943; PMCID: PMC6936993.
24. **Bullock GS**, Weaver A, Matsel K, Kiesel K, Plisky P. The reliability and criterion validity of a novel dorsiflexion range of motion screen. Athletic Training & Sports Health Care. 2019;12(1), 40–44. doi: https://doi.org/10.3928/19425864-20190214-02.
25. **Bullock GS**, Collins GS, Peirce N, Arden NK, Filbay SR. Playing sport injured is associated with osteoarthritis, joint pain and worse health-related quality of life: a cross-sectional study. BMC Musculoskelet Disord. 2020;21(1):111. doi: 10.1186/s12891-020-3136-5. PMID: 32075619; PMCID: PMC7031986.
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Invited Publications (Editorially Reviewed)

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Fallowfield JL, Hayhurst D, **Bullock GS,** Fisher B, Harrison K. Royal Navy Musculoskeletal Injury Mitigation Programme; Report 11: Musculoskeletal Injury Surveillance Data Requirements, Minimum Data Elements, Definitions and Standard Operating Procedures. Royal Navy Technical Report. 2024.

Sell TC, Zerega R, **Bullock GS.** Neck prognostic factors in military service members. U.S. Department of Defense. Technical Report. 2024.

White Papers

Kluzek S, Arundale AJH, Jackson W, Metcalf A, **Bullock GS.** Prevention of ACL Injuries, Reducing the Burden of Injury: Evidence and Implementation. Sky Sports in Collaboration with the English Institute of Sport. 2022.

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Bullock GS, Emery CA, Nelson V, Prats-Uribe A, Gilliland RG, Thigpen CA, Shanley E. Higher Rates of Concussion Following COVID-19 Infection in High School Athletes. Br J Sport Med. 2022.

Blogs

Bullock GS, Emery CA, Nelson VR, Prats-Uribe A, Gilliland RG, Thigpen CA, Shanley E. Higher rates of concussion following COVID-19 infection in high school athletes. British Journal of Sports Medicine. 2022.

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Whittaker JL, **Bullock GS,** Losciale JL, Martin M, Martin CL, Emery CA. Modifiable risk factors for lower-extremity injury: a systematic review and meta-analysis for the Female, Woman and Girl Athlete Injury Prevention (FAIR) consensus. British Journal of Sports Medicine. 2026.

Newspaper and Magazine Articles

Bullock GS. Selzer MM. (2019). What is Motor Control? On Target Publication. https://www.otpbooks.com/maggie-selzer-garrett-bullock-what-is-motor-control/

Zumbrun J. (2023). Severity, Not Frequency, Sets Football Injuries Apart. Quoted. Wall Street Journal. https://www.wsj.com/articles/severity-not-frequency-sets-football-injuries-apart-11673581887

Podcast

(2021, Jun 1). Overhead Athlete Rehabilitation. [Audio podcast episode]. In *H2S Podcast*.

Wardell, M. (Host). (2021, Jul 1). Making Sense of Movement and Research Findings in Throwing Athletes [Audio podcast episode]. *In Overhead Athlete Podcast.* Https://www.youtube.com/watch?v=gRS_f0XIEoM-1

(2022, Jun 1). Sports Corner: Return to baseball after injury, with Dr. Garrett Bullock (No. 93) [Audio podcast episode]. In *JOSPT Insights.*

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(2023, July 10) Is baseball throwing PT a curveball? [Audio podcast episode]. Move with Dr. Chuck Thigpen, *ATI Podcast Network*.

(2024, November 26) Upper extremity injury prevention: A holistic approach. [Audio podcast episode]. *Behind the Sports Medicine Podcast.*

PRESENTATIONS AT PROFESSIONAL MEETINGS

Symposiums

Filbay SR, **Bullock GS**, Perera N, Arden NK. The long-term health and wellbeing effects of cricket participation. World Conference of Science and Medicine in Cricket. July 8-10, 2019, Loughborough, United Kingdom.

Bullock GS, Buckingham HC, Christopher SM, Filbay SR, Hoogenboom BJ. Mind Games: The short and long term implications of injury, athletic identity, and mental health in the female athlete across the lifespan. Combined Sections Meeting. February 24-27, 2021, Orlando, FL.

Shah K, **Bullock GS,** Arden NK. OARSI Hand OA Discussion Group: Initial consensus meeting for phenotyping Hand Osteoarthritis. World Congress on Osteoarthritis (OARSI). April 29-May 5, 2021. Online.

Bullock GS, Losciale J, Shanley E, Rhon D, Kluzek S, Thigpen CS. Can prediction models and artificial intelligence improve clinical care? Considerations for the trenches. Combined Sections Meeting. 2023, San Diego, CA.

Bullock GS, Losciale J, Shanley E, Rhon D, Kluzek S, Thigpen CS. Can prediction models and artificial intelligence improve clinical care? Considerations for the trenches. Combined Sections Meeting. 2023, San Diego, CA.

Nicholson KF, **Bullock GS.** Integrating biomechanical analyses in injury prevention programs. American College of Sports Medicine: Mid-Atlantic Region. November 2, 2022, Harrisonburg, PA.

Harnish C, **Bullock GS.** Injury prevention in collegiate athletes, much more than meets the eye. American College of Sports Medicine: Mid-Atlantic Region. November 2, 2022, Harrisonburg, PA.

Whittaker J, Bo K, **Bullock GS**, Ngeh E, Moseley J. Knowledge Translation. World Physiotherapy Congress. June 2-4, 2023. Dubai, UAE.

Rhon DI, Arden NK, de la Motte S, Fallowfield J, Fisher B, **Bullock GS.** Reducing Musculoskeletal Injuries in the Military: A Consensus Approach to Tackling a Shared Wicked Problem. International Conference of Solider Physical Performance. September 12-14, 2023, London, UK.

Bullock GS, Pastva A, Bowen M, Duncan PD. Implementing medical models in practice for at risk patients. California Physical Therapy Association Conference. October 7-8, 2023. Long Beach, CA.

Critchley M, Kenny S, **Bullock GS,** Poppoli D. Injury Surveillance and Prevention in Dance: A Multifaceted Approach. International Association of Dance Medicine and Science. October 12-15, 2023, Columbus, Ohio.

Bullock GS, Poppoli D. Integrating Injury Prevention in Dancers. Winston-Salem Dance Medicine Conference. November 3, 2023. Winston-Salem, North Carolina.

Borg-Stein J, Tenforde AS, Jayabalan P, **Bullock GS.** Post Traumatic Arthritis: Mechanisms, Risk Factors and New Treatments. AAPMR National Conference. November 15-19, 2023, New Orleans, LA.

Fallowfield JL, Nielsen E, Fisher B, **Bullock GS,** Bilzon J, Carins J. The Royal Navy's Musculoskeletal Injury Mitigation Programme; A Whole System Approach to Deliver Impact in the Military Setting. International Conference of Military Medicine. September 8-12, 2024. Brisbane, Australia.

Emery CA, Whittaker JW, Hemming E, **Bullock GS.** Systematic Reviews Informing the International Olympic Committee Female, Women, and Girl Athlete Injury Prevention (FAIR) Consensus. Female Athlete Conference. June 4-6, 2025. Boston, MA.

Presentations

Bullock GS, Bowen R, Nordhoff F, Knab AM. Two-week progressive non-linear taper not effective in decreasing 5K run time in younger vs. Master's aged endurance athletes [Podium]. American College of Sports Medicine, 62nd Annual Meeting and 6th World Conference. San Diego, CA, May 26-30, 2015.

Selzer MM, **Bullock GS**, Schmitt AC, Shutt JM, Cook G, Butler RJ. Predicting Jump Performance using biomechanics of various versions of the kettlebell swing [Podium]. American College of Sports Medicine, 63nd Annual Meeting and 7th World Conference. Boston, MA, May 31-June 4, 2016.

Shutt JM, **Bullock GS**, Selzer MM, Schmitt AC, Cook G, Butler RJ. (2016, Jun 2). Mechanical load comparison between different kettlebell swing styles [Podium]. American College of Sports Medicine, 63nd

Annual Meeting and 7th World Conference. Boston, MA, May 31-June 4, 2016.

Bullock GS, Brookreson N, Knab AM, Butler RJ. Examining fundamental movement competency and closed chain upper extremity dynamic balance in swimmers [Podium]. American College of Sports Medicine, 63nd Annual Meeting and 7th World Conference. Boston, MA, May 31-June 4, 2016.

Bullock GS, Chapman T, Joyce T, Prengle R, Stern T, Butler RJ. Examining differences in movement competency in professional baseball players born in the United State and Dominican Republic [Podium]. American College of Sports Medicine, 63nd Annual Meeting and 7th World Conference. Boston, MA, May 31-June 4, 2016.

Baumann J, Hendrix S, **Bullock GS**, Harnish C. Relationship between functional movement patterns and performance between Division III women's soccer and volleyball [Podium]. American College of Sports Medicine, 63nd Annual Meeting and 7th World Conference. Denver, CO, May 30- June 3, 2017.

Bullock GS, Harnish CR, Krysak S, Blount A, Knab AM. Axiomatic movement and dynamic balance disparities between varying competition levels in golfers [Podium]. American College of Sports Medicine, 63nd Annual Meeting and 7th World Conference. Denver, CO, May 30- June 3, 2017.

Hendrix S, Baumann J, **Bullock GS**, Harnish C. In season Changes in functional movement patterns in Division III women's' soccer and volleyball players [Podium]. American College of Sports Medicine, 63nd Annual Meeting and 7th World Conference. Denver, CO, May 30- June 3, 2017.

Bullock GS, Kraft LM, Amsden K, Gore W, Prengle R, Wimsatt J, Ledbetter L, Covington JK, Goode A. The prevalence and effect of burnout on graduate healthcare students [Podium] Combined Sections Meeting. San Antonio, TX, February 17, 2017.

Chasse P, **Bullock GS**, Schmitt AC, Little BA, Diehl LH, Butler RJ. Kerlan-Jobe Orthopaedic Clinic Shoulder and Elbow Scores (KJOC) differ between college baseball pitchers who have had prior injury and those who have not [Podium] Combined Sections Meeting. San Antonio, TX, February 17, 2017.

Bullock GS, Schmitt AC, Chasse P, Little BA, Diehl LH, Butler RJ. The relationship between upper quarter rotation mobility, dynamic stability and pitch velocity [Podium] Combined Sections Meeting. San Antonio, TX, February 18, 2017.

Reagan D, **Bullock GS**. Current evidence and application for return to sport for hamstring strains in sprinters [Podium] Virginia Athletic Trainers Association State Conference. Williamsburg, VA, January 6-7, 2017.

Little BA, **Bullock GS**, Schmitt AC, Chasse P, Diehl LH, Butler RJ. The impact of pitch type on physiologic Playerload™, are all types equal? [Podium]. North Carolina Orthopaedic Conference. Raleigh, NC, March 1, 2017.

Bullock GS, Faherty MS, Ledbetter L, Thigpen CA, Sell TC. Is shoulder range of motion associated with baseball arm injuries: A systematic review and meta-analysis [Podium] Combined Sections Meeting. New Orleans, LA, February 21-24, 2018.

Bullock GS, Plisky PJ, Matsel K, Weaver A, Gourlay J, Kiesel K. The relationship between the half kneeling closed chain ankle dorsiflexion test and a novel ordinal scale modified weight bearing lunge test [Podium]. American College of Sports Medicine, 64th Annual Meeting and 8th World Conference. Minneapolis, MN, May 29- June 2, 2018.

Kiesel K, Schwartzkopf-Phifer K, Huebner B, **Bullock GS**, Garner MB, Hayden J, Matsel K, Ricard R, Plisky PJ. The reliability and criterion validity of a novel dorsiflexion range of motion screen [Podium]. American College of Sports Medicine, 64th Annual Meeting and 8th World Conference. Minneapolis, MN, May 29-

June 2, 2018.

Bullock GS, Garrigues GE, Ledbetter L, Kennedy JS. Rehabilitation for Anatomic and Reverse Total Shoulder Arthroplasty: A Systematic Review [Podium]. American Society of Shoulder and Elbow Therapists 26th Annual Meeting. Chicago, IL, October 11-14, 2018.

Coughlin RP, **Bullock GS,** Shanmugaraj A, Sell TC, Garrigues GE, Ledbetter L, Taylor DC. Outcomes after Arthroscopic Rotator Interval Closure for Shoulder Instability: A Systematic Review [Podium]. American Shoulder and Elbow Surgeons Annual Meeting. Chicago, IL, October 11-14, 2018.

Helmkamp JK, **Bullock GS**, Amilo NR, Ledbetter LS, Guerrero EM, Sell TC, Garrigues GE. The clinical impact of center of rotation lateralization in reverse shoulder arthroplasty: A systematic review [Podium]. American Shoulder and Elbow Surgeons Annual Meeting. Chicago, IL, October 11-14, 2018.

Denning N, **Bullock GS,** Plisky PJ, Kiesel K. The relationship between repeated vertical and broad jumps: An exploratory analysis [Podium]. Combined Sections Meeting. Washington D.C., January 23-26, 2019.

Coughlin RP, **Bullock GS,** Shanmugaraj A, Sell TC, Garrigues GE, Ledbetter L, Taylor DC. Outcomes after Arthroscopic Rotator Interval Closure for Shoulder Instability: A Systematic Review [Podium]. American Academy of Orthopaedic Surgeons Annual Meeting. Las Vegas, NV, March 12-16, 2019.

Bullock GS, Collins GS, Arden NK, FIlbay SR. Physical activity and health-related quality of life in former cricketers with persistent upper-limb or lower-limb joint pain [Podium] World Congress on Osteoarthritis (OARSI). Toronto, Canada, May 1-5, 2019.

Guerrero E, **Bullock GS**, Helmkamp J, Andres J, Garrigues GE. The Clinical Impact of Different Approaches to Osteocapsular Debridement for Primary Osteoarthritis of the Elbow: A Systematic Review [Podium] International Congress of Shoulder and Elbow Surgeons. Buenos Aires, Argentina, September 17-20, 2019.

Guerrero E, **Bullock GS**, Helmkamp J, Andres J, Garrigues GE. The Clinical Impact of Different Approaches to Osteocapsular Debridement for Primary Osteoarthritis of the Elbow: A Systematic Review [Podium] American Society of Shoulder and Elbow Therapists 27th Annual Meeting. New York, NY, October 16-19, 2019.

Helmkamp JK, **Bullock GS**, Rao A, Shanley E, Thigpen CJ, Nicholson G, Garrigues GE. The Relationship between Humeral Torsion and Arm Injury in Baseball Players: A Systematic Review and Meta-analysis [Podium] American Society of Shoulder and Elbow Therapists 27th Annual Meeting. New York, NY, October 16-19, 2019.

Bullock GS, Collins GS, Arden NK, FIlbay SR. Having played sport while injured is associated with osteoarthritis, joint pain and worse health related quality of life [Podium] ASICS Sports Medicine Australia Conference. Brisbane, Australia, October 23-26, 2019.

Bullock GS, Collins GS, Arden NK, FIlbay SR. Resilience is associated with greater health related quality of life and flourishing in former cricketers [Podium] ASICS Sports Medicine Australia Conference. Brisbane, Australia, October 23-26, 2019.

Perera NKP, **Bullock GS**, Arden NK, Filbay SR. Physical activity in current and former cricketers [Podium]. ASICS Sports Medicine Australia Conference. Brisbane, Australia, October 23-26, 2019.

Bullock GS, Collins GS, Peirce N, Arden NK, FIlbay SR. Physical activity and health related quality of life in former elite and recreational cricketers with persistent upper extremity or lower extremity joint pain. Combined Sections Meeting. Denver, CO, February 12-15, 2020.

Bullock GS, Uhan J, Harriss EK, Arden NK, Filbay SR. The relationship between baseball participation,

health, and wellbeing: A systematic scoping review. Combined Sections Meeting. Denver CO, February 12-15, 2020.

Schlussel MM, Kirtley S, de Beyer JA, Kirtley S, Logullo P, Dhiman P, MacCarthy A, Korolyova A, Speich B, **Bullock GS**, Moher D, Collins GC. Strengthening the methodology of reporting guidelines: mapping the landscape, updating development guidance and creating a methodological quality badging system. REWARD | EQUATOR Conference. Berlin, Germany, February 20-22, 2020.

Veroneau BJ, Tadlock BA, Christopher S, Vallabhajosula S, Knab AM, Harnish C, **Bullock GS.** The effect of injuries and pain on athletic identity across NCAA divisions. Human Movement Science Research Symposium. Chapel Hill, NC, March 20, 2020.

Guerrero E, **Bullock GS**, Helmkamp J, Andres J, Garrigues GE. The Clinical Impact of Different Approaches to Osteocapsular Debridement for Primary Osteoarthritis of the Elbow: A Systematic Review. American Academy of Orthopaedic Surgeons Annual Meeting. Orlando, FL, March 24-28, 2020.

Helmkamp JK, **Bullock GS**, Rao A, Shanley E, Thigpen CJ, Nicholson G, Garrigues GE. The Relationship between Humeral Torsion and Arm Injury in Baseball Players: A Systematic Review and Meta-analysis. American Academy of Orthopaedic Surgeons Annual Meeting. Orlando, FL, March 24-28, 2020.

Bullock GS, Nicholson KF, Waterman BR, Niesen E, Salamh P, Thigpen CS, Shanley E, Collins GS, Arden NK, Filbay SR. Persistent pain and upper extremity function in former collegiate baseball players: An exploratory analysis. World Congress on Osteoarthritis (OARSI). Vienna, Austria, April 30-May3, 2020.

Bullock GS, Christopher S, Veroneau BJ, Tadlock BA, Vallabhajosula S, Knab AM, Harnish C, Vallabhajosula S. The effect of pain on flourishing in NCAA collegiate athletes. American College of Sports Medicine 65th Annual Meeting and 9th World Conference. San Francisco, CA, May 26-30, 2020.

Hermann AJ, Denning N, **Bullock GS**, Matsel K, Kiesel K, Plisky PJ. Utilization of the 2-1-2 and triple broad jump as alternative tests in identifying decreased performance and asymmetries. American College of Sports Medicine 65th Annual Meeting and 9th World Conference. San Francisco, CA, May 26-30, 2020.

Tadlock BA, Veroneau BJ, Christopher S, Vallabhajosula S, Knab AM, Harnish C, **Bullock GS.** Injury and injury-related pain relationships to NSAID use and abuse in collegiate athletes. American College of Sports Medicine 65th Annual Meeting and 9th World Conference. San Francisco, CA, May 26-30, 2020.

Veroneau BJ, Tadlock BA, Christopher S, Vallabhajosula S, Knab AM, Harnish C, **Bullock GS.** The effect of injuries and pain on athletic identity across NCAA divisions. Clinician Best Poster Highlight Session at the American College of Sports Medicine 65th Annual Meeting and 9th World Conference. San Francisco, CA, May 26-30, 2020.

Bullock GS, Hulburt TC, Beck EC, Waterman BR, Nicholson KF. The relationship between pitch velocity and shoulder distraction force and elbow valgus torque in collegiate and high school pitchers. American Baseball Biomechanics Society Online Conference. Virtual, July 15, 2020.

Dhiman P, **Bullock GS,** Ma J, Speich B, Navarro A, Kirtley S, Vancalster B, Riley R, Moons KGM, Collins GS. A systematic review of Oncology clinical prediction models developed using Machine Learning methods. Methods for Evaluating Medical Prediction Models, Tests and Biomarkers (MEMTAB) International Symposium. Leuven, Belgium, July 2-3, 2020.

Nicholson KF, Hulbert T, Beck EC, Waterman BR, **Bullock GS**. The relationship between pitch velocity and shoulder distraction force and elbow valgus torque in collegiate and high school pitchers. 38th International Society of Biomechanics in Sports Conference. Liverpool, UK, July 21-25, 2020.

Nicholson KF, Hulbert T, Beck EC, Waterman BR, **Bullock GS**. The relationship between pitch velocity and shoulder distraction force and elbow valgus torque in collegiate and high school pitchers. 44th

American Society of Biomechanics. Atlanta, GA, August 4-7, 2020.

Kennedy J, Klifto CS, Ledbetter L, **Bullock GS.** A systematic review of reverse total shoulder arthroplasty clinical and patient-reported outcomes and complications stratified by pre-operative diagnosis. 28th American Society of Shoulder and Elbow Therapists Annual Meeting. New York, NY, October 16-19, 2020.
McCarthy K, Hines D, Schneible J, Perkins S, Gehrin J, Zhuang Y, Shupe A, Christopher S, **Bullock GS.** The Effect of Menopause and Overuse Injuries on Athletic Identity in Female Masters Runners. State of North Carolina Undergrad Research & Creativity Symposium. Raleigh, NC, November 7, 2020.

Bullock GS, Ferguson T, Collins GS, Kluzek S. The effect of severe ankle, knee, and hip injuries on National Basketball Association player performance. IOC World Conference on Prevention and Injury in Sport. Monaco, Monaco. February 10-12, 2021.

Bullock GS, Thigpen CA, Collins GS, Arden NK, Noonan TK, Kissenberth MJ, Wyland DJ, Arnold A, Bailer LB, Shanley E. A comparison of machine learning and statistical prediction models in predicting youth baseball pitcher humeral torsion. Combined Sections Meeting. Orlando, FL, February 24-27, 2021.

Bullock GS, Thigpen CA, Collins GS, Arden NK, Noonan TK, Kissenberth MJ, Wyland DJ, Arnold A, Bailer LB, Shanley E. Development and internal validation of humeral torsion prediction model for professional baseball pitchers. Combined Sections Meeting. Orlando, FL, February 24-27, 2021.

Christopher S, Tadlock BA, Veroneau BJ, Harnish C, Perera NKP, Knab AM, Vallabhajosula S, **Bullock GS**. Epidemiological profile of pain and non-steroid anti-inflammatory drug use in collegiate athletes in the United States. Combined Sections Meeting. Orlando, FL, February 24-27, 2021.

Kennedy J, Klifto CS, Ledbetter L, **Bullock GS.** A systematic review of reverse total shoulder arthroplasty clinical and patient-reported outcomes and complications stratified by pre-operative diagnosis. Combined Sections Meeting. Orlando, FL, February 24-27, 2021.

Kluzek S, Ferguson T, Vaughan J, Gillespie D, Collins GS, **Bullock GS.** Temporal Trends and Severity in Injury and Illness Incidence in the National Basketball Association over Eleven Seasons**.** Combined Sections Meeting. Orlando, FL, February 24-27, 2021.

Kluzek S, Murray E, Vaughan J, **Bullock GS.** Temporal Trends in Incidence of Time-loss Injuries in Four Professional North American Sports. Combined Sections Meeting. Orlando, FL, February 24-27, 2021.

Martin CL, Shanley E, Harnish C, Knab AM, Christopher S, Vallabhajosula S, **Bullock GS**. The relationship between flourishing, injury status, and resilience in collegiate athletes. Combined Sections Meeting. Orlando, FL, February 24-27, 2021.

Martin CL, Shanley E, Harnish C, Knab AM, Christopher S, Vallabhajosula S, **Bullock GS**. Overuse Injury, Substance Use, and Resilience in Collegiate Female Athletes. Combined Sections Meeting. Orlando, FL, February 24-27, 2021.

Patel AD, **Bullock GS**, Paterno M, Ledbetter L, Sell TS, Losciale J. Does Biologic Sex Affect Second ACL Injury Risk? A Systematic Review with Meta-Analysis. Combined Sections Meeting. Orlando, FL, February 24-27, 2021.

Plisky PJ, Schwarzkopf K, Huebner B, **Bullock GS.** Systematic Review and Meta-analysis of the Y-Balance Test Lower Quarter: Reliability, Discriminant Validity, and Predictive Validity in Active Populations. Combined Sections Meeting. Orlando, FL, February 24-27, 2021.

Plisky PJ, Schwarzkopf K, Huebner B, **Bullock GS.** The relationship between age and dynamic balance in male and female physical active populations. Combined Sections Meeting. Orlando, FL, February 24-27, 2021.

Schwarzkopf K, Plisky PJ, Huebner B, **Bullock GS**. The relationship of age and gender on dynamic balance in soccer athletes. Combined Sections Meeting. Orlando, FL, February 24-27, 2021.

Shanley E**, Bullock GS**, Collins GS, Arden NK, Noonan TK, Kissenberth MJ, Wyland DJ, Thigpen CA. Clinical Measures Predict Humeral Torsion in Youth Baseball Pitchers Development of a prediction model for humeral torsion in youth baseball pitchers. Combined Sections Meeting. Orlando, FL, February 24-27, 2021.

Shanley E**, Bullock GS**, Collins GS, Arden NK, Noonan TK, Kissenberth MJ, Wyland DJ, Thigpen CA. Informing the Avoidance of Arm Injury for Professional Pitchers through Predictive Modeling. Combined Sections Meeting. Orlando, FL, February 24-27, 2021.

Thigpen CA, **Bullock GS**, Shanley E, Collins GS, Arden NK, Noonan TK, Kissenberth MJ, Wyland DJ, Shanley E. Organizational Risk Profiling and Education Associated with Reduction in Professional Pitching Arm Injuries: An interrupted time series analysis. Combined Sections Meeting. Orlando, FL, February 24-27, 2021.

Veroneau BJ, Tadlock BA, Christopher S, Vallabhajosula S, Knab AM, Harnish C, **Bullock GS.** The effect of injuries and pain on athletic identity across NCAA divisions. Combined Sections Meeting. Orlando, FL, February 24-27, 2021.

Bullock GS, Thigpen CA, Collins GS, Arden NK, Noonan TK, Kissenberth MJ, Wyland DJ, Shanley E. Development and application of an arm injury prediction model for professional pitchers. American Academy of Orthopaedic Surgeons. San Diego, CA, March 9-12, 2021.

Mohammad H, **Bullock GS**, Kennedy J, Marks B, Mellon SJ, Murray DW, Judge A. A comparison of the ten-year clinical outcomes of cemented and cementless unicompartmental knee replacements – A systematic review. American Academy of Orthopaedic Surgeons. San Diego, CA, March 9-12, 2021.

Gehrin J, Y Zhuang, **Bullock GS**, Christopher S. Athletic identity in prenatal and postpartum runners. University of Virginia Running Medicine Conference. Charlottesville, VA, March 12-13, 2021.

Hines D, Schneible J**, Bullock GS**, Christopher S. Do age related changes affect athletic identity in master's runners? University of Virginia Running Medicine Conference. Charlottesville, VA, March 12-13, 2021.

Perkins S, Shupe A, **Bullock GS**, Christopher S. What are the similarities and differences between adolescent and collegiate runners when investigating athletic identity and running habits? University of Virginia Running Medicine Conference. Charlottesville, VA, March 12-13, 2021.

McCarthy K, **Bullock GS**, Christopher C. The relationship of athletic identity and body image in female runners across the lifespan. Elon Spring Undergraduate Research Forum. Elon, NC, April 1, 2021.

Bullock GS, Thigpen CA, Collins GS, Arden NK, Noonan TK, Kissenberth MJ, Wyland DJ, Shanley E. Professional Starting Baseball Pitchers Demonstrate Increased Time to Arm Injury Risk Compared to Relievers: A Survival Analysis. World Physiotherapy Congress 2021. Dubai, UAE, April 8-10, 2021.

Martin CL, Kluzek SM, Collins GS, **Bullock GS.** Injury Incidence Temporal Trends and Influence of Rookie Season Injury on Career Longevity among National Basketball Association Players. World Physiotherapy Congress 2021. Dubai, UAE, April 8-10, 2021.

Bullock GS, Thigpen CA, Collins GS, Arden NK, Noonan TK, Kissenberth MJ, Wyland DJ, Shanley E. Incorporating both modifiable and non-modifiable factors improve professional baseball pitch injury net benefit compared to current best evidence-based practice. Canada Sports Physiotherapy Conference. Toronto, Canada, May 2, 2021.

Bullock GS, Thigpen CA, Collins GS, Arden NK, Noonan TK, Kissenberth MJ, Wyland DJ, Shanley E. Incorporating both modifiable and non-modifiable factors improve injury risk assessment in professional baseball pitchers. Canada Sports Physiotherapy Conference. Toronto, Canada, May 2, 2021.

Shah K, **Bullock GS**, Furniss D, Silman A, Arden NK, Collins GS. Prediction model to understand risk factors and calculate overall risk for hand osteoarthritis progression at ten years. Annual European Congress of Rheumatology (EULAR). Virtual, June 2-5, 2021.

Hines D, McCarthy K, Schneible J, Perkins S, Gehrin J, Zhuang Y, Shupe A, Christopher S, **Bullock GS.** The Effect of Menopause and Overuse Injuries on Athletic Identity in Female Masters Runners. American College of Sports Medicine 68th Annual Meeting. Washington D.C. June 2-5, 2021.

Huebner B, Plisky PJ, Schwarzkopf K, **Bullock GS.** The relationship between age and dynamic balance in male and female physical soccer athletes. American College of Sports Medicine 68th Annual Meeting. Washington, D.C. June 2-5, 2021.

Perkins S, Hines D, McCarthy K, Schneible J, Perkins S, Gehrin J, Zhuang Y, Shupe A, Christopher S, **Bullock GS.** The relationship of athletic identity in pregnant and postpartum female runners**.** American College of Sports Medicine 68th Annual Meeting. Washington, D.C., June 2-5, 2021.

Zhuang Y, Hines D, McCarthy K, Schneible J, Perkins S, Gehrin J, Shupe A, Christopher S, **Bullock GS.** The relationship of athletic identify in recreational and female collegiate athletes. American College of Sports Medicine 68th Annual Meeting. Washington, D.C., June 2-5, 2021.

Bullock GS, Shanley E, Collins GS, Arden NK, Noonan TK, Kissenberth MJ, Wyland DJ, Thigpen CA. Organizational Risk Profiling and Education Associated with Reduction in Professional Pitching Arm Injuries: An interrupted time series analysis. American Orthopaedic Society of Sports Medicine, Specialty Day. Nashville, TN, July 8-11, 2021.

Bullock S, Thigpen CA, Collins GS, Arden NK, Noonan TK, Kissenberth MJ, Wyland DJ, Shanley E. A multivariable prediction model improves arm injury risk assessment and clinical net benefit in professional pitchers compared to ROM risk profiling alone. American Orthopaedic Society of Sports Medicine, Specialty Day. Nashville, TN, July 8-11, 2021.

Nicholson KF, Collins GS, Waterman BR, **Bullock GS**. Predicting pitching arm stress with machine learning models. Society for American Baseball Research (SABR). Baltimore, MD, July 20-21, 2021.

Hulburt T, **Bullock GS,** Aguinaldo AL, Nicholson K. Are Distal Throwing Arm Kinematics Predictive of Maximum Elbow Valgus Torque in Youth Baseball Pitchers? International Society of Biomechanics. Virtual, July 25-29, 2021.

Nicholson K, Collins GS, Waterman BR, **Bullock GS**. Statistical and machine learning modelling of arm stress. International Society of Biomechanics. Virtual, July 25-29, 2021.

Dhiman P, Ma J, Andaur Navarro CA, Speich B, **Bullock GS**, Damen JA, Kirtley S, Hooft L, Riley RD, Van Calster B, Collins GS. Reporting of clinical prediction models based on machine learning methods in oncology needs to be improved. International Society for Computational Biology Conference. Virtual, July 26-30, 2021.

Nicholson K, Collins GS, Waterman BR, **Bullock GS**. Machine learning prediction of arm stress. American Society of Biomechanics. Virtual, August 10-13, 2021.

Bullock GS, Thigpen CA, Collins GS, Arden NK, Noonan TK, Kissenberth MJ, Wyland DJ, Shanley E. Incorporating both modifiable and non-modifiable factors improve professional baseball pitch injury net benefit compared to current best evidence-based practice. Association of Shoulder and Elbow Therapists National Conference. Tampa Bay, FL, October 20-22, 2021.

Shanley E, Thigpen CA, Collins GS, Arden NK, Noonan TK, Kissenberth MJ, Wyland DJ, **Bullock GS.** Incorporating both modifiable and non-modifiable factors improve injury risk assessment in professional baseball pitchers. Association of Shoulder and Elbow Therapists National Conference. Tampa Bay, FL, October 20-22, 2021.

Thigpen CA, **Bullock GS**, Collins GS, Arden NK, Noonan TK, Kissenberth MJ, Wyland DJ, Shanley E. Organizational Risk Profiling and Education Associated with Reduction in Professional Pitching Arm Injuries: A Natural Experiment. Association of Shoulder and Elbow Therapists National Conference. Tampa Bay, FL, October 20-22, 2021.

Nicholson K, Collins GS, Waterman BR, **Bullock GS**. Using machine learning modelling to predict arm stress in pitchers. North Carolina Orthopaedic Association. Pinehurst, NC, October 29-31, 2021.

Noonan TJ, Shanley E, Noonan TJ, Kissenberth MJ, Arden NK, Collins GS, Thigpen CS, **Bullock GS**. Starting pitchers demonstrate a greater hazard of arm injury compared to relief pitchers. Major League Baseball Winter Meetings, December 5, 2021.

Recker AJ, Waters T, Rosas S, **Bullock GS**, Nicholson KF, Waterman BR. SLAP Repair Versus Biceps Tenodesis for Isolated Type II SLAP Tears: An Expected-Value Decision Analysis. Society of Military Orthopaedic Surgeons 63rd Annual Meeting. Olympic Valley, CA, December 14-17, 2021.

Park Z, **Bullock GS**, Owens T, Robbins GT. Validation of the FUNC Score for predicting rehabilitation outcomes and eventual disposition for patients admitted with non-traumatic ICH in the inpatient rehabilitation setting. Physiatry National Conference, New Orleans, LA, February 1-5, 2022.

Bang F, Danelson K, **Bullock GS**, Pilson H. Gender Disparity in Orthopaedic Textbook Authorship: The Opportunity Gap. North Carolina Orthopaedic Conference. Pinehurst, NC, February 2022.

Bullock GS, Thigpen CA, Noonan TK, Kissenberth MJ, Shanley E. Initial Lower extremity and Trunk Injuries Increase Risk of Subsequent Arm Injuries in Baseball Pitchers. American Physical Therapy Association Combined Sections Meeting. San Antonio, TX, February 2-5, 2022.

Hines D, Perkins S, Gehrin J, Y Zhuang, Shupe S, **Bullock GS**, Christopher S. The influence of running habits and injury on athletic identity across the female runner lifespan. American Physical Therapy Association Combined Sections Meeting. San Antonio, TX, February 2-5, 2022.

Leonard CL, Lieb AE, Tokish J, Shanley E, **Bullock GS**. Initial Versus Subsequent Injury and Illness Incidence among National Hockey League Players. American Physical Therapy Association Combined Sections Meeting. San Antonio, TX, February 2-5, 2022.

Lieb AE, Leonard CL, Tokish J, Shanley E, **Bullock GS**. Injury and Illness Incidence Temporal Trends in National Hockey League Players over 13 Seasons. American Physical Therapy Association Combined Sections Meeting. San Antonio, TX, February 2-5, 2022.

Losciale JM, Zerega RJ, King V, Reiter C, Wrona H, Sell TC, Mills N, Ledbetter L, Räisänen, A, Kvist J, Filbay SR, **Bullock GS**. Psychological readiness to return to sport after ACL reconstruction, a systematic review with meta-analysis. American Physical Therapy Association Combined Sections Meeting. San Antonio, TX, February 2-5, 2022.

Jacquier C, **Bullock GS**, Salamh P, Luck J. The Diagnosis and Clinical Implications of Concussions Detected with Head Impact Sensors: A Systematic Review. American Physical Therapy Association Combined Sections Meeting. San Antonio, TX, February 2-5, 2022.

Salamh P, Entler K, Vrbancic C, Parks M, Usui T, **Bullock GS**, Hegedus E, Cook C. Actual vs. Perceived Pitch Counts in Adolescent Baseball Players: Not Even in the Same Ballpark. American Physical Therapy Association Combined Sections Meeting. San Antonio, TX,

February 2-5, 2022.

Kluzek S, **Bullock GS**, Feakins B, Stocks J. Matched cohort analysis on the effect of osteoarthritis on physical activity. European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis, and Musculoskeletal Diseases (ESCEO). Virtual. Berlin, Germany, March 24-26, 2022.

Mylott JA, **Bullock GS,** Nicholson KF. Lower Extremity Kinematic and Kinetic Differences Between Medicine Ball Rotational Exercises and the Throwing Motion among Collegiate Baseball Players. Wake Forest Bioengineering Symposium. Winston Salem, NC, April 22-23, 2022.

Bullock GS, Thigpen CA, Prats-Uribe A, Norhen T, Staley T, Shanley E. Epidemiological Description of Illness and COVID-19 incidence in High School Athletes and the Risk of Subsequent Injury. Canadian Academy of Sport and Exercise Medicine. Quebec, Canada, April 27-30, 2022.

Shanley E, Thigpen CA, Collins GS, Arden NK, Noonan TJ, Kissenberth MJ, Wyland D, **Bullock GS**. Organizational Risk Profiling and Education Associated with Reduction in Professional Pitching Arm Injuries: A Natural Experiment. Canadian Academy of Sport and Exercise Medicine. Quebec, Canada, April 27-30, 2022.

Wang S, **Bullock GS**, Kluzek S, Stocks J. Investigating physical activity and musculoskeletal pain in Nordic walkers using digital technology. European Pain Foundation Conference. Dublin, Ireland, April 27-30, 2022.

Stocks J, **Bullock GS**, Kluzek S. Common Joint Pain in the Running Community. European Federation of Joint Pain International Conference (EFIC). Dublin, Ireland, April 27-30, 2022.

Bullock GS, Stocks J, Feakins G, Bestwick-Stevenson T, Kluzek S. The relationship of lower extremity persistent pain and osteoarthritis on running and physical activity in recreational runners. World Congress on Osteoarthritis (OARSI). Berlin, Germany, April 6-10, 2022.

Shah K, **Bullock GS,** Cleveland R, Nelson A**,** Silman A, Furniss D, Collins GS, Arden NK. Redeveloped Prediction Model for Progressive Radiographic Finger Interphalangeal Osteoarthritis. World Congress on Osteoarthritis (OARSI). Berlin, Germany, April 6-10, 2022.

Stocks J, **Bullock GS**, Feakins B, Gayer De Mena L, Tahir D, Wang S, Huang X, Bestwick-Stevenson T, Jumbo N, Simpkins D, Kluzek S. Changes in physical activity levels during different lockdown stages within the United Kingdom in 2021. British Association of Sport and Exercise Medicine. Brighton, United Kingdom, May 26-27, 2022.

Thomas A, Silman A, Arden NK, Filbay SR, **Bullock GS.** A cohort study on the prevalence of skin cancer in current and former cricketers. British Association of Sport and Exercise Medicine. Brighton, United Kingdom, May 26-27, 2022.

Schlussel MM, Kirtley S, de Beyer JA, Kirtley S, Logullo P, Dhiman P, MacCarthy A, Korolyova A, Speich B, **Bullock GS**, Moher D, Collins GC. Characteristics and developing methods of reporting guidelines for health research: an internal audit of the equator database. 7th World Conference on Research Integrity. Cape Town, South Africa, May 29-June 1, 2022.

Shah K, **Bullock GS,** Silman A, Furniss D, Arden NK, Collins GS. Risk of hand osteoarthritis at ten years follow up. International Federation of Societies for Surgery of the Hand. Combined Congress. London, United Kingdom, June 6-10, 2022.

Filben TM, Pritchard NS, Oravec CS, Hile CW, Bercaw JR, Zoch SR, Miller LE, **Bullock GS**, Flashman LA, Miles CM, Urban JE, Stitzel JD. Head Kinematics in Dirt Track Racing: Quantifying Differences between Tracks. National Neurotrauma Society Symposium. Atlanta, GA. June 26-29, 2022.

Stocks J, **Bullock GS**, Feakins B, Kluzek S. Physical activity in people self-reporting chronic multi-joint

pain in lower limbs. British Pain Society. London, United Kingdom, June 13-15, 2022.

Nicholson KF, Mylott JA, Hulburt TC, Hamer TJ, **Bullock GS**. Pitching biomechanical comparison between professional Dominican Republic and American Baseball Pitchers. International Society of Biomechanics. 2022. Liverpool, United Kingdom, July 19-23, 2022.

Dees A, Bang K, Scott M, Walters J, Mohamed N, Holley M, **Bullock GS**, Danelson K, Pilson H. Match Rate Success of Orthopaedic Surgery Gap Year Research Participants. Southern Orthopaedic Association Annual Meeting. White Sulphur Springs, WV, July 21, 2022.

Walters J, MS. Bang K Scott M, Jeansonne N, Strickland L, Dees A, Taylor L, Rider D, Schieffer S, **Bullock GS**, Danelson K, Pilson H. Gender Disparity in Orthopaedic Textbook Authorship: The Opportunity Gap. Southern Orthopaedic Association Annual Meeting. White Sulphur Springs, WV, July 21, 2022.

Dees A, BS. Bang K, MD. Scott M, MD. Walters J, MS. Mohamed N, MD. Holley M, BA. **Bullock G**, PT, PhD. Danelson K, PhD. Pilson H, MD. Match Rate Success of Orthopaedic Surgery Gap Year Research Participants. Southern Orthopaedic Association Annual Meeting. White Sulphur Springs, WV, July 21, 2022.

Walters J, MS. Bang K, MD. Scott M, MD. Jeansonne N, BS, Strickland L, BS. Dees A, BS. Taylor L, MD. Rider D, MD. Schieffer S, MD. **Bullock GS**, PT, PhD. Danelson K, PhD. Pilson H, MD. Gender Disparity in Orthopaedic Textbook Authorship: The Opportunity Gap. Southern Orthopaedic Association Annual Meeting. White Sulphur Springs, WV, July 21, 2022.

Mobley J, **Bullock GS**, Brooks, Gilliland R**,** Shanley E. Uses of Healthcare System Medical Care Services by Athletes after Injury at the High School Level. University of South Carolina Medical School Research Symposium. Columbia SC, July 22, 2022

Nicholson KF, Mylott JA, Hulburt TC, Hamer TJ, **Bullock GS**. Kinematic and kinetic comparison between professional Dominican Republic and American baseball pitchers. North American Congress on Biomechanics. Ottawa, Canada, August 21-25, 2022.

Rhon DI, Plisky P, Kiesel K, **Bullock GS**, Shaffer S, Goffar S, Teyhen DS. After being cleared to return to work after an initial injury, what best predicts a subsequent future injury? A prediction model for military service members. IFSPT Fourth World Congress of Sports Physical Therapy. Nyborg, Denmark, August 26-27, 2022.

Arnold CJ, **Bullock GS**, Hulburt TC, Nicholson KF. Differences in throwing kinetics between different ball masses in youth baseball players. Biomedical Engineering Society Conference. Winston Salem, NC, August 6, 2022.

Tom NA, Venkatiahgari N, Filben TM, Pritchard NS, Miller LE, **Bullock GS**, Flashman LA, Miles CM, Urban JE, Stitzel JD. Characterization of Head Acceleration Exposure in Dirt Track Motorsport. Biomedical Engineering Society Conference. Winston Salem, NC, August 6, 2022.

Venkatiahgari N, Tom NA, Filben TM, Pritchard NS, Miller LE, **Bullock GS**, Flashman LA, Miles CM, Urban JE, Stitzel JD. Comparing Vehicle Crash Accelerations and Self-Reported Concussion Symptoms in Grassroots Dirt Track Racing. Biomedical Engineering Society Conference. Winston Salem, NC, August 6, 2022.

Thigpen CA, Shanley E, Noonan TJ, Wylands J, Kissenberth T, Arden NK, Collins GS, **Bullock GS**. Assessing the clinical benefit of an arm injury prediction model in professional pitchers compared to current evidence-based practice: A decision curve analysis. Orthopaedic Research Symposium. Boston, MA, September 21-24, 2022.

Thigpen CA, Shanley E, Noonan TJ, Kissenberth T, Arden NK, Collins GS, **Bullock GS**. Decreased

Incidence of Arm Injuries in Professional Baseball Players Through Risk Profiling: A Natural Experiment. Orthopaedic Research Symposium. Boston, MA, September 21-24, 2022.

Greenlee TA, **Bullock GS**, Teyhen DS, Rhon DI. Examination of a psychological profile for predicting injury of active-duty military members following return to duty after thoracolumbar spine or lower extremity injury. Military Health System Research Symposium. Orlando, FL, September 2022.

Davidson A, **Bullock GS**, Halverson JJ. Analysis of Tranexamic acid Administration in Orthopedic Hip Trauma Patients. Wake Forest School Medical Students Research Day. Winston Salem, NC, October 12, 2022.

George T, **Bullock GS,** Sinacore DR, Jones M. Using pedal radiography and serum biomarkers to assess pedal impairment risk across CKD-MBD stages. Wake Forest School Medical Students Research Day. Winston-Salem, NC, October 12, 2022.

Cohen JG, Mylott J, **Bullock GS**, Nicholson KF. Influence of Elbow Pain on Kinematics and Kinetics in Youth, High School, and Collegiate Baseball Pitchers. Biomedical Engineering Society Conference. San Antonio, TX, October 12-15, 2022.

Phillips M, **Bullock GS**, Scott A. Use of straight retrograde intramedullary nail for tibiotalocalcaneal arthrodesis. Eastern Orthopaedic Society. Atlantic City, NJ, October 26-29, 2022.

Recker D, **Bullock GS**, Coates K, Cruz-Diaz N, Bratcher BN, Hartzell EL, Nicholson KF, Waterman BR. SLAP Repair Versus Biceps Tenodesis for Isolated Type II SLAP Tears: An Expected-Value Decision Analysis. NC Orthopaedic Conference. Kiawah Island, SC, October 28-30, 2022.

Oravec CS, Filben TM, Pritchard NS, **Bullock GS**, Flashman LA, Miles CM, Urban JE, Stitzel JD. Relationships of head and neck acceleration data in Grassroots Dirt Track Racing. Pediatric Neurological Surgeons Section Meeting. Washington DC, December 1-5, 2022.

Bullock GS, Thigpen CA, Padua D, Lentz T, Shanley E. Crossing the Gulf between Injury Prevention Research to Real World Implementation: Lessons from the Trenches. Combine Section Meeting. Boston, MA, February 15-17, 2023.

Martin CL**,** Palasiewicz J, Grullon J, Shanley E, Thigpen CA, Kline D, Kluzek S, Collins GS, **Bullock GS**. Elbow Injuries among MLB Pitchers Increased During Covid-19 Disrupted Season, But Not Other Baseball Injuries. Combined Sections Meeting. San Diego, CA, February 23-25, 2023.

Bullock GS, Filben TM, Pritchard NS, Oravec CS, Hile CW, Bercaw JR, Zoch SR, Miller LE, Flashman LA, Miles CM, Urban JE, Stitzel JD. Data driven neurocognitive screening intervals in professional dirt track racing. Combined Sections Meeting. San Diego, CA, February 23-25, 2023.

Sinacore DR. George TS, **Bullock GS**, Vesley BD, Jones M. Prevalence of Radiographic and Serum Biomarkers in the Diabetic-Neuropathic FootAcross the Stages of Chronic Kidney Disease-Mineral Bone Disorder. Combined Sections Meeting. San Diego, CA, February 23-25, 2023.

Shanley E, Prats-Uribe A, Thigpen CA, **Bullock GS**. Risk of traumatic and overuse injuries following abrupt sport stoppage in high school athletes. Combined Sections Meeting. San Diego, CA, February 23-25, 2023.

Shanley E, Lutz A, Thigpen CA, **Bullock GS**. Return to Sport (RTS) in Scholastic Athletes is influenced by timely access to care. Combined Sections Meeting. San Diego, CA, February 23-25, 2023.

Knapic H, Shanley E, Prats-Uribe A, Thigpen CA, **Bullock GS**. Impact of Prolonged Sport Stoppage during the COVID-19 Shutdown on Knee Injuries in High School Athletes: An Ecological Study. Combined Sections Meeting. San Diego, CA, February 23-25, 2023.

Kluzek S, Feakins B, Stocks J, **Bullock GS**. Injury risk in recreational runners, assessment of the running through cohort. Combined Sections Meeting. San Diego, CA, February 23-25, 2023.

Kluzek S, Ferguson T, Arundale AJH, Collins GS, **Bullock GS**. Association of NBA career length and severe ankle, knee, or hip injury. Combined Sections Meeting. San Diego, CA, February 23-25, 2023.

Bullock GS, Emery CA, Prats-Uribe, Thigpen CA, Shanley E. Risk of concussion following COVID-19 infection in high school athletes. Combined Sections Meeting. San Diego, CA. February 23-25, 2023.

Bullock GS. Development of an exercise therapy referral algorithm: Implementation and implications. North Carolina Falls Prevention Coalition Annual Conference. UNC School of Medicine, Chapel Hill, NC, March 3, 2023.

Bullock GS. Feasibility of Implementing Falls Screening in a Fracture Liaison Clinic. North Carolina Falls Prevention Coalition Annual Conference. UNC School of Medicine, Chapel Hill, NC, March 3, 2023.

Bullock GS, Sangio C, Beck EC, Gowd AK, Miller E, Danelson K, O'Gara T. Patient Reported Outcomes and Reoperation Rates Following Lumbar Tubular Microdecompression: 6 Year Follow Up. OARSI, Denver, CO, March 17-20, 2023.

Greenlee TA, **Bullock GS**, Teyhen DS, Rhon DI. Can a Psychological Profile Predict Subsequent Musculoskeletal Injury After Being Cleared to Return to Duty from Previous Injury? International Consortium for Musculoskeletal Mental and Social Health. I-MESH. Virtual. March 30, 2023.

Miles CM, Pritchard S, Kruse DW, **Bullock GS**, Lintner LJ, Moore JB, Stitzel JD, Urban JE. Characterizing head acceleration exposure in women's artistic gymnastics. American Medical Society for Sports Medicine. Phoenix, AZ, April 28-May 3, 2023.

Polich JP, Henry K, Bullock G, Gangopadhyay P, Scott A, Matheis E, Tegtmeyer M, Bolte JH IV, **Danelson K**. Short Communication: Low-Rate Ankle Stiffness in Human Volunteers. 67th Stapp Car Crash Conference. Ann Arbor, MI, October 11th, 2023.

Restrepo A, Glover MA, Sowards GJ, Recker AJ, Beck EC, **Bullock GS**, Waterman BR. Equivocal Post-Operative Pain and Function after Biceps Tenodesis using Expedited Sling Protocol. Arthroscopic Association of North America Annual Conference. New Orleans, LA, May 4-6, 2023.

Bullock GS, Duncan P, McMurtrie E, Henry K, Graves BF, Lake AR, McDonough CM. Feasibility of falls risk patient-reported and physical assessments in an osteoporosis clinic: To increase evidence-based management. World Physiotherapy Conference. Dubai, UAE, June 2-4, 2023.

Bullock GS, Emery CA, Thigpen CA, Prats-Uribe A, Shanley E. Unexpected sequela of COVID-19: Higher rates of concussion follow COVID-19 infection in high school athletes. World Physiotherapy Conference. Dubai, UAE, June 2-4, 2023.

Arnold CJ, Hosmer N, Moore M, **Bullock GS,** Nicholson KF. Ball size and weight effects on throwing kinematic and kinetics in youth baseball athletes. International Society of Biomechanics. Fukuyama, Japan, June 30-July 3, 2023.

Filben T, Zoch SRL, Pritchard N, **Bullock GS,** Urban J, Stitzel J. Driver Head Kinematics in Grassroots Dirt Track Racing Crashes. Association for the Advancement of Automotive Medicine 67th Annual Scientific Conference. Indianapolis, IN, October 3-6, 2023.

Zoch SR, Mason DR, Filben TM, Pritchard NS, Miller LE, **Bullock GS**, Miles CM, Urban JE, Stitzel JD. Driver head kinematics in grassroots dirt track racing crashes: A pilot analysis. Association for the Advancement of Automotive Medicine. Indianapolis, IN, October 4-6, 2023.

Moore M, **Bullock GS,** Arnold C, Nicholson FK. Effects of Ball Modification on Pitching Biomechanics in

Youth Baseball Players. North Carolina Physical Therapy Conference. Elon University, Elon, NC, October 13-14, 2023.

Moore M, **Bullock GS,** Arnold C, Nicholson FK. Effects of Ball Modification on Pitching Biomechanics in Youth Baseball Players. North Carolina Physical Therapy Conference. Elon University, Elon, NC, October 13-14, 2023.

Andring NA, **Bullock GS,** Halvorson J. Risk factors for traumatic shoulder arthroplasty outcomes. Eastern Orthopaedic Conference. Charleston, SC, October 25-28, 2023.

Polascik B, **Bullock GS**, Langfitt M, Shields J. Sex Differences in the Relationship between Hand and Leg Dominance and Knee Osteoarthritis Laterality [Poster]. Eastern Orthopaedic Conference. Charleston, SC, October 25-28, 2023.

Martin CL**,** Palasiewicz J, Grullon J, Shanley E, Thigpen CA, Kline D, Kluzek S, Collins GS, **Bullock GS**. Elbow Injuries among MLB Pitchers Increased During Covid-19 Disrupted Season, But Not Other Baseball Injuries. Combined Sections Meeting. San Diego, CA, February 23-25, 2023.

Bullock GS, Filben TM, Pritchard NS, Oravec CS, Hile CW, Bercaw JR, Zoch SR, Miller LE, Flashman LA, Miles CM, Urban JE, Stitzel JD. Data driven neurocognitive screening intervals in professional dirt track racing. Combined Sections Meeting. San Diego, CA, February 23-25, 2023.

Sinacore DR. George TS, **Bullock GS**, Vesley BD, Jones M. Prevalence of Radiographic and Serum Biomarkers in the Diabetic-Neuropathic Foot Across the Stages of Chronic Kidney Disease-Mineral Bone Disorder. Combined Sections Meeting. San Diego, CA, February 23-25, 2023.

Shanley E, Prats-Uribe A, Thigpen CA, **Bullock GS**. Risk of traumatic and overuse injuries following abrupt sport stoppage in high school athletes. Combined Sections Meeting. San Diego, CA, February 23-25, 2023.

Shanley E, Lutz A, Thigpen CA, **Bullock GS**. Return to Sport (RTS) in Scholastic Athletes is influenced by timely access to care. Combined Sections Meeting. San Diego, CA, February 23-25, 2023.

Knapic H, Shanley E, Prats-Uribe A, Thigpen CA, **Bullock GS**. Impact of Prolonged Sport Stoppage during the COVID-19 Shutdown on Knee Injuries in High School Athletes: An Ecological Study. Combined Sections Meeting. San Diego, CA, February 23-25, 2023.

Kluzek S, Feakins B, Stocks J, **Bullock GS**. Injury risk in recreational runners, assessment of the running through cohort. Combined Sections Meeting. San Diego, CA, February 23-25, 2023.

Kluzek S, Ferguson T, Arundale AJH, Collins GS, **Bullock GS**. Association of NBA career length and severe ankle, knee, or hip injury. Combined Sections Meeting. San Diego, CA, February 23-25, 2023.

Bullock GS, Emery CA, Prats-Uribe, Thigpen CA, Shanley E. Risk of concussion following COVID-19 infection in high school athletes. Combined Sections Meeting. San Diego, CA. February 23-25, 2023.

Bullock GS. Development of an exercise therapy referral algorithm: Implementation and implications. North Carolina Falls Prevention Coalition Annual Conference. UNC School of Medicine, Chapel Hill, NC, March 3, 2023.

Bullock GS. Feasibility of Implementing Falls Screening in a Fracture Liaison Clinic. North Carolina Falls Prevention Coalition Annual Conference. UNC School of Medicine, Chapel Hill, NC, March 3, 2023.

Bullock GS, Sangio C, Beck EC, Gowd AK, Miller E, Danelson K, O'Gara T. Patient Reported Outcomes and Reoperation Rates Following Lumbar Tubular Microdecompression: 6 Year Follow Up. OARSI, Denver, CO, March 17-20, 2023

Greenlee TA, **Bullock GS**, Teyhen DS, Rhon DI. Can a Psychological Profile Predict Subsequent Musculoskeletal Injury After Being Cleared to Return to Duty from Previous Injury? International Consortium for Musculoskeletal Mental and Social Health. I-MESH. Virtual, March 30, 2023.

Miles CM, Pritchard S, Kruse DW, **Bullock GS**, Lintner LJ, Moore JB, Stitzel JD, Urban JE. Characterizing head acceleration exposure in women's artistic gymnastics. American Medical Society for Sports Medicine. Phoenix, AZ, April 28-May 3, 2023.

Polascik B, **Bullock GS**, Langfitt M, Shields J. Sex Differences in the Relationship between Hand and Leg Dominance and Knee Osteoarthritis Laterality. Southern Orthopaedic Conference. Miramar, Fl, July 26-29, 2023.

Restrepo A, Glover MG, Recker AJ, Beck EC, **Bullock GS**, Trasolini NA, Waterman, BR. Expedited sling immobilization after biceps tenodesis demonstrates equivalent range of motion and patient reported outcomes to standard protocol. 15th International Congress on Shoulder and Elbow Surgery. Rome, Italy, September 5-8, 2023.

Filben T, Zoch SRL, Pritchard N, **Bullock GS,** Urban J, Stitzel J. Driver Head Kinematics in Grassroots Dirt Track Racing Crashes. Association for the Advancement of Automotive Medicine 67th Annual Scientific Conference. Indianapolis, IN, October 3-6, 2023.

Zoch SR, Mason DR, Filben TM, Pritchard NS, Miller LE, **Bullock GS**, Miles CM, Urban JE, Stitzel JD. Driver head kinematics in grassroots dirt track racing crashes: A pilot analysis. Association for the Advancement of Automotive Medicine. Indianapolis, IN, October 4-6, 2023

Zoch SR, Filben TM, Pritchard NS, Mason DR, Miller LE, **Bullock GS**, Miles CM, Urban JE, Stitzel JD. By track in grassroots dirt track racing. Biomedical Engineering Society Annual Meeting, Seattle, WA, October 11-14, 2023

Moore M, **Bullock GS,** Arnold C, Nicholson FK. Effects of Ball Modification on Pitching Biomechanics in Youth Baseball Players. North Carolina Physical Therapy Conference. Elon University, Elon, NC. October 13-14, 2023

Andring NA, **Bullock GS,** Halvorson. Risk factors for traumatic shoulder arthroplasty outcomes. Eastern Orthopaedic Conference. Charleston, SC, October 25-28, 2023.

Polascik B, **Bullock GS**, Langfitt M, Shields J. Sex Differences in the Relationship between Hand and Leg Dominance and Knee Osteoarthritis Laterality [Poster]. Eastern Orthopaedic Conference. Charleston, SC, October 25-28, 2023.

Bullock GS, Thigpen CA, Padua D, Lentz T, Shanley E. Crossing the Gulf between Injury Prevention Research to Real World Implementation: Lessons from the Trenches. Combine Section Meeting. Boston, MA, February 15-17, 2024.

Kissenberth M, **Bullock GS**, Thigpen CA, Shanley E. Differences in arm injury risk phenotypes Between Latin American and North American professional baseball pitchers. American Shoulder and Elbow Surgeons Specialty Day, San Francisco, CA, February 16, 2024.

Recker D, **Bullock GS,** Trasolini N, Waterman BR. Equivocal Post-Operative Pain and Function after Biceps Tenodesis using an Expedited Sling Protocol: A Two-Year Update. Society of Military Orthopaedic Surgeons 65th Annual Meeting. December 4-8, 2023. Vail, CO.

Restrepo A, Glover MG, Recker AJ, Beck EC, **Bullock GS**, Trasolini NA, Waterman, BR. Equivalent Post-Operative Outcomes After Isolated Biceps Tenodesis Using an Expedited Sling Protocol. American Academy of Orthopaedic Surgeons Annual Meeting. February 12-16, 2024. San Francisco, CA.

Recker D, **Bullock GS**, Trasolini NA, Waterman, BR. Operative Treatment has Greater Expected Value

than Nonoperative Treatment for First-Time Patellar Dislocations: A Meta-Analysis and Expected Value Decision Analysis. Society of Military Orthopaedic Surgeons. Society of Military Orthopaedic Surgeons 65th Annual Meeting. December 4-8, 2023. Vail, CO.

Devaney LL, **Bullock GS**, Grimes J, Sell T, Kline D, Nicholson KF, Wallace S, Bruneau M, Waterman BW, Thigpen CA, Shanley ES. Neck Mobility is Associated with Neck, Shoulder, And Elbow SANE Scores in College Baseball Pitchers. American Society of Shoulder and Elbow Therapists Annual Conference. September, 2023. Phoenix, AZ.

Shanley E, Thigpen CA, Noonan TJ, Kissenberth M, **Bullock GS**. Risk Differences in Latin American and North American Professional Baseball Pitchers. Combined Sections Meeting. February 15-17, 2024. Boston, MA.

Ehrig M, **Bullock** GS, Speiser J. Non-ignorable missing data in the electronic health record. Biomedical Engineering Symposium. July 21, 2023. Winston-Salem, NC.

Guerrero-Campos AM, **Bullock GS**, Speiser JL. Benchmarking Traditional and Machine Learning Methods for Longitudinal Prediction Modeling. Biomedical Engineering Symposium. July 21, 2023. Winston-Salem, NC.

Voigt MJ, Fernandez G, **Bullock** GS, Nicholson NF. Differences in ball modifications in youth baseball players. Biomedical Engineering Symposium. July 21, 2023. Winston-Salem, NC.

Cavallero NJ, Zoch SR, Filben TM, Prticharch NS, Miller LE, **Bullock GS**, Urban JE, Stitzel JD. Investigating the impact of track roughness on head kinematics in grassroots dirt track racing. Biomedical Engineering Symposium. July 21, 2023. Winston-Salem, NC.

Romero GA, Pritchard NS, Brandt KM, **Bullock GS,** Peluso A**,** Kruse DW, Miles CM, Moore JB, Stitzel JD, Urban JE. Differences in head kinematics experiences during skills performed by women's and men's artistic gymnastics. Biomedical Engineering Symposium. July 21, 2023. Winston-Salem, NC.

Gaudette C, Fernandez G, **Bullock GS**, Nicholson NF. Changes in elbow varus torque across youth pitchers. Biomedical Engineering Symposium. July 21, 2023. Winston-Salem, NC.

Martin M, Moore J, Gomes DA, Morris N, Hayden A, **Bullock GS**, Galarneau JM, Kemp J, Emery CA. Prevalence of Bony Morphologies Consistent with Femoroacetabular Impingement Syndrome in Youth and Young Adult Sport Participants: A Systematic Review. Research and Community Engagement Symposium (RACE). September 28, 2023. Calgary, Alberta, Canada.

Martin M, Moore J, Gomes DA, Morris N, Hayden A, **Bullock GS**, Galarneau JM, Kemp J, Emery CA. Prevalence of Bony Morphologies Consistent with Femoroacetabular Impingement Syndrome in Youth and Young Adult Sport Participants: Considerations of Symptoms, Age, Sex, and Sport Type. 7th annual IOC World Conference on Injury Prevention and Illness in Sport. February 29, 2024. Monaco, Monaco.

Martin C, Truong L, Wolf J, Moore J, Shanley E, Marshall S, Nicholson KF, **Bullock GS.** Perceptions of Wearable Biomechanical Devices in Collegiate Baseball Pitchers and Training Staff: A Qualitative Study. 7th annual IOC World Conference on Injury Prevention and Illness in Sport. February 29, 2024. Monaco, Monaco.

Rhon DI, de la Motte S, Fraser J, Hando BR, Molloy JM, Teyhen D, Tiede J, VanWyngaarden JJ, Westrick RB, **Bullock GS.** Barriers and facilitators to implementing injury prevention programs for tactical athletes: feedback from key stakeholders in the United States military. 7th annual IOC World Conference on Injury Prevention and Illness in Sport. February 29, 2024. Monaco, Monaco.

Martin C, Wolf J, Fernandez G, Shanley E, Thigpen CA, Impellizzeri FI, Ward P, Shrier I, Marshall S, Nicholson KF, **Bullock GS.** Feasibility of implementing wearable biomechanical devices for injury

prevention in collegiate baseball pitchers. 7th annual IOC World Conference on Injury Prevention and Illness in Sport. February 29, 2024. Monaco, Monaco.

Pritchard NS, Brandt KM, **Bullock GS,** Kruse DW, Miles CM, Moore JB, Urban JE, Stitzel JD. Head acceleration exposure in women's gymnastics. 7th annual IOC World Conference on Injury Prevention and Illness in Sport. February 29, 2024. Monaco, Monaco.

Urban JE, Marks MM, Holcomb TD, Patterson R, McCoy A, Moore JB, Miles CM, **Bullock GS,** Stitzel JD, Foley KL. A Framework to Engage Community Members in the Design and Evaluation of an Evidence-Based Strategy for Head Injury Prevention in Youth Sports. 7th annual IOC World Conference on Injury Prevention and Illness in Sport. February 29, 2024. Monaco, Monaco.

Hughes MS, Groothoff J, **Bullock GS**, Chang E, Marquez-Lara A. Use of emergency department for surgical decisions. Pediatric Orthopaedic Society of America Annual Meeting. May 8-11, 2024. National Harbor, Maryland.

Holcomb T, Filben TM, **Bullock GS,** Moore JM, Miles CM, Stitzel JS, Urban J. Relationship between tackling form and head kinematic in football. Biomedical Engineering Society Annual Meeting. October 11-13, 2023. Seattle Washington.

Romero GA, Pritchard NS, Brandt KM, **Bullock GS,** Peluso A**,** Kruse DW, Miles CM, Moore JB, Stitzel JD, Urban JE. Differences in head kinematics experiences during skills performed by women's and men's artistic gymnastics. Biomedical Engineering Society Annual Meeting. October 11-13, 2023. Seattle Washington.

Cavallero NJ, Zoch SR, Filben TM, Pritchard NS, Miller LE, **Bullock GS**, Urban JE, Stitzel JD. Investigating the impact of track roughness on head kinematics in grassroots dirt track racing. Biomedical Engineering Society Annual Meeting. October 11-13, 2023. Seattle Washington.

McCarthy A, Logullo P, **Bullock GS,** Kirtley S, Ma J, Dhiman P, Collins GS. Quality of peer review reports of oncology trials published by BMC journals in 2021. World Congress of Research Integrity. June 2-5, 2024. Athens, Greece.

Martin M, Moore J, Gomes D, Morris N, Hayden A, **Bullock GS,** Mohtadi N, Schneider G, Emery CA, Prevalence of Bony Morphologies Consistent with Femoroacetabular Impingement Syndrome in Youth and Young Adult Sport Participants: A Systematic Review and Meta-Analyses. Alberta Children's Hospital Research Institute (ACHRI) Research Retreat. December 7-8, 2023. Calgary, Canada.

Devaney LL, **Bullock GS,** Grimes J, Sell TS, Kline D, Nicholson KF, Waterman BR, Thigpen C, Wallace S, Shanley E. Neck Mobility in health college baseball pitchers: A descriptive analysis. National Athletic Trainers Association Conference. June 25-28, 2023. New Orleans, LA.

Noonan TJ, Shanley E, Thigpen CA, Kissenberth T, Arden NK, Collins GS, **Bullock GS**. Development and testing of a prediction model in professional baseball pitchers. Major League Baseball Winter Meetings. December 6-8, 2023. Nashville, TN.

Noonan TJ, Shanley E, Thigpen CA, Kissenberth T, Arden NK, Collins GS, **Bullock GS**. Assessment and evaluations of an arm injury risk profiling program in professional baseball pitchers. Major League Baseball Winter Meetings. December 6-8, 2023. Nashville, TN.

Martin C, Swofford A, Bromberg R, Wolfe A, Shanley E, Arnold A, Kline D, McDonald L, Friesen K, **Bullock GS,** Moore S, Vallabhajosula S, Marshal SW. Persistent shoulder pain and upper extremity function in former female softball players. Osteoarthritis Research Society International. April 18-21, 2024. Vienna, Austria.

Swofford A, Bromberg R, Wolfe A, Shanley E, Arnold A, Kline D, McDonald L, **Bullock GS,** Friesen K, Moore S, Vallabhajosula S, Marshall S, Martin C. Relationship between severe injuries during playing

career and current physical activity in former collegiate softball players. American College of Sports Medicine Annual Meeting. May 28-31, 2024. Boston, MA.

Jones B, **Bullock GS,** Nicholson KF. Determining factors for pseudoparalysis post massive rotator cuff tear. American College of Sports Medicine Annual Meeting. May 28-31, 2024. Boston, MA.

Rhon DI, Arden NA, Motte SDL, Fallowfield J, Fisher B, **Bullock GS.** International Consensus for Minimum Common Data Elements for Tracking and Reporting Musculoskeletal Injuries in Military Settings: a Delphi consensus. Military Health System Research Symposium. Orlando, Fl. August 10, 2024.

Rhon DI, Arden NA, Motte SDL, Fallowfield J, Fisher B, **Bullock GS.** International Consensus for Minimum Common Data Elements for Tracking and Reporting Musculoskeletal Injuries in Military Settings: a Delphi consensus. International Conference of Military Medicine. September 8-12, 2024. Brisbane, Australia.

Speiser, J*; Ehrig, M*; **Bullock, GS**. Imputation and missing indicators for handling longitudinal data with nonignorable missingness: A simulation study based on electronic health record data. American Statistical Association: Joint Statistical Meetings. August 2024, Portland, OR. *Co-Presenters

Romero GA, Pritchard S, Brandt KM, **Bullock GS,** Peluso A, Kruse DW, Moore JB, Stitzel JD, Urban JE. Evaluation of Head Kinematics Experienced during Common Skill Progression Pathways in Men's Artistic Gymnastics. Biomedical Engineering Symposium. May 9, 2024. Winston-Salem, NC.

Moore MS, **Bullock GS**, Arnold CJ, Hosmer NA, Nicholson KF. Effects of Ball Size and Weight on Throwing Kinematics and Kinetics in Youth Baseball Athletes. American Academy of Sport Physical Therapy Annual Meeting. June 13-14, 2024. Las Vegas, NV.

Wolf J, Fernandez G, Nicholson KF, Martin CM, O'Connell N, **Bullock GS.** Validity and Repeatability of Wearable Biomechanical Unit in Baseball Pitchers. Biomedical Engineering Symposium. May 9, 2024. Winston-Salem, NC.

Swensen AG, Pritchard NS, **Bullock GS**, Miller LE, Mihalik JP, Urban JE, Stitzel JD. Relationships between athletic performance and head acceleration event exposure in boys' youth ice hockey. 14th Annual Traumatic Brain Injury Conference. May 2-4, 2024. Washington DC.

Holcomb TD, Marks ME, **Bullock GS**, Milles CM, Moore JB, Stitzel JD, Urban JE. Relationship between Tackle Form and Head Kinematics in Youth Football**.** 14th Annual Traumatic Brain Injury Conference. May 2-4, 2024. Washington DC.

Pritchard NS, Brandt KM, **Bullock GS**, Kruse DW, Milles CM, Moore JB, Stitzel JD, Urban JE. Utilizing Head Motion Measurements and Stakeholder Engagement to Develop Post-Concussion Return to Sport Strategies for Women's Artistic Gymnasts. 14th Annual Traumatic Brain Injury Conference. May 2-4, 2024. Washington DC.

Gwilt M, **Bullock GS**, Shields JS. Does Robotic Assisted Versus Manual TKA Influence Predicted Implant Size? Eastern Orthopaedic Association Annual Meeting. October 16-19, 2024. Palm Beach, FL.

Mooney J, **Bullock GS,** Brotherton A. Post-surgical dental precautions/prophylaxis in pediatric patients: Results of a 2023 survey of the membership of the Pediatric Orthopaedic Society of North America (POSNA). ICEOS 14th Annual Conference. November 13-15, 2024. Scottsdale, AZ.

Zhao H, Wolf J, Nicholson KF, Fernandez G, Martin C, Shanley E, Kline D, Thigpen CA, Hartshorne M, **Bullock GS.** Interplay of humeral torsion and pitching biomechanical kinematics in collegiate pitchers. Duke Orthopaedic Research Day. May 12, 2024. Durham, NC

Bullock GS, Thigpen CA, Zhao H, Devaney LL, Kline D, Noonan T, Kissenberth M, Shanley E. Neck Range of Motion in Professional Baseball Pitchers: Generalizability and Clinical Prognostic Factors.

American Orthopaedic Society of Sport Medicine – Specialty Day. February 2, 2025.

Shanley E, Thigpen CA, Zhao H, Devaney LL, Kline D, Noonan T, Kissenberth M, **Bullock GS.** Professional baseball pitchers' patterns of use and results of weighted ball training: a pilot study. American Orthopaedic Society of Sport Medicine – Specialty Day. February 2, 2025.

Romero GA, Pritchard NS, Brandt KM, **Bullock GS,** Peluso A**,** Kruse DW, Miles CM, Moore JB, Stitzel JD, Urban JE. Evaluation of head kinematics experienced during common skill progression pathways in men's artistic gymnastics. Biomedical Engineering Society Annual Meeting. October 23-26, 2024. Baltimore, MD.

Bullock GS, Thigpen CA, Zhao H, Devaney LL, Kline D, Noonan T, Kissenberth M, Shanley E. Neck Range of Motion in Professional Baseball Pitchers: Generalizability and Clinical Prognostic Factors. American Academy of Orthopaedic Surgeons Annual Meeting. March 10-12, 2025. San Diego, CA

Shanley E, Thigpen CA, Zhao H, Devaney LL, Kline D, Noonan T, Kissenberth M, **Bullock GS.** Professional baseball pitchers' patterns of use and results of weighted ball training: a pilot study. American Academy of Orthopaedic Surgeons Annual Meeting. March 10-12, 2025. San Diego, CA.

Martin M, Galarneau JM, **Bullock GS,** Schneider G, Emery CA, Mohtadi NG. Examining Symptoms, Clinical, and Radiographic Signs of Femoroacetabular Impingement Syndrome in Youth Ice Hockey and Ringette Athletes. Young Athlete's Hip Symposium. September 22, 2024. Oxford, United Kingdom.

Martin M, Galarneau JM, **Bullock GS,** Mohtadi NG, Schneider G, Emery CA. Evaluating the Prevalence of Signs and Symptoms Associated with Femoroacetabular Impingement Syndrome in Youth Ice Hockey and Ringette. Young Athlete's Hip Symposium. September 22, 2024. Oxford, United Kingdom.

Martin M, Soligon C, Galarneau JM, **Bullock GS,** Mohtadi NG, Schneider G, Emery CA. Novel Screening Protocol for Assessment of Hip Impingement in Adolescent Athletes: A Reliability Study. Canadian Association of Sports Medicine. May 28-31, 2024. Niagara Falls, Canada.

Teasdall RJ, Hrabovsky KS, Williams KE, McMurtrie E, McCall CA, Rhead JA, **Bullock GS**, Shields JS. Effectiveness of an institution wide pre-operative antibiotic protocol using cephalosporins in patients with penicillin allergies during primary total joint arthroplasty. American Association of Hip and Knee Surgeons. November 7-10, 2024. Dallas, TX.

Bullock GS, Truong LT, Evenson K, Wolf J, Moore J, Urban J, Marshall SW, Shanley E, Nicholson KF, Martin CM. Barriers and Facilitators of Implementing Wearable Biomechanical Devices in Elite Baseball Pitchers and Training Staff: A Qualitative Study. World Physiotherapy Congress. May 28-30, 2025. Tokyo, Japan.

Shanley E, Thigpen CA, Zhao H, Devaney LL, Kline D, Noonan T, Kissenberth M, **Bullock GS.** Professional baseball pitchers' patterns of use and results of weighted ball training: an interim study. Combined Sections Meeting. February 2-4, 2025. Dallas, TX.

Zhao H, Wolf J, Nicholson KF, Fernandez G, Martin C, Shanley E, Kline D, Thigpen CA, Hartshorne M, **Bullock GS.** Interplay of humeral torsion and pitching biomechanical kinematics in collegiate pitchers. Combined Sections Meeting. February 2-4, 2025. Dallas, TX.

Mooney J, **Bullock GS,** Brotherton A. Post-Surgical Dental Precautions/Prophylaxis in Pediatric Patients: Results of a 2023 Survey of the Membership of the Pediatric Orthpaedic. Society of North America. International Congress on Early Onset Scoliosis (ICEOS). November 13-15, 2024. Scottdale, AZ.

Henry K, Teasdell R, **Bullock GS,** Danelson K, Scott A, Gangopadyay P. Achilles Tendon Rupture versus Limb Dominance: A Retrospective Cohort Study. American College of Foot and Ankle Surgeons 83rd Annual Conference. March 27-30, 2025. Phoenix, AZ.

Henry K, Teasdell R, **Bullock GS,** Danelson K, Scott A, Gangopadyay P. Achilles Tendon Rupture versus Limb Dominance: A Retrospective Cohort Study. Surgical Sciences Day. November 12, 2024. Winston-Salem, NC.

Devaney LL, **Bullock GS,** Nicholson KF, Waterman BR, Wallace S, Thigpen CA, Shanley E, Grimes JK. Association of neck range of motion and arm injuries in collegiate pitchers. National Athletic Training Association Annual Convention. June 24-27, 2025. Orlando, FL.

Martin M, Galarneau JM, **Bullock GS,** Mohtadi NG, Schneider G, Emery CA. Screening for Femoroacetabular Impingement Syndrome: Symptom Prevalence in Adolescent Ice Hockey and Ringette Players. Alberta Children's Hospital One Child Every Child Conference. November 21-22, 2024. Calgary, Alberta, Canada.

Martin C. Grimes A, Urban J, Gibson E, Hemming E, Marshall SW, **Bullock GS,** Shanely E, Kline D, Emery CA. Osteoarthritis Research Society International International Conference. April 24-29, 2024. Seoul, South Korea.

Odens JA, Holcomb TD, Marks ME, **Bullock GS,** Filben TM, Moore JB, Miles CM, Stitzel JD, Urban JE. Relationship between tackling form and head acceleration events in youth football competition. American College of Sports Medicine World Congress. May 27-30, 2025. Atlanta, GA.

Urban JE, Moore JB, Holcomb T, Marks ME, Miles CM, **Bullock GS,** Stitzel JE, Foley KL. Implementing injury prevention programs in youth community sports: Pilot experience in American youth football. Academy of Medicine D & I Annual Meeting. December 8-11, 2024.

Martin M, **Bullock GS,** Gallarneau JM, Schneider G, Emery CA, Mohtadi NG. Prevalence and evaluation of femoroacetabular impingement syndrome indicators in youth ice hockey and ringette athletes: A two-part cross-sectional with implications for osteoarthritis risk. Osteoarthritis Research Society International World Congress. April 24-29, 2025. Seoul, South Korea.

Bullock GS, Martin CM, Plisky P, Beiting J, Losciale JL. Butler RJ. Association of Pitch Exposure on Persistent Arm Pain and Function in Collegiate Pitchers. Osteoarthritis Research Society International World Congress. April 24-29, 2025. Seoul, South Korea.

Bullock GS, Kluzek SK, Davies M. The Need for More Systematic and Critical Methodologies to Guideline Development in Osteoporosis. World Congress on Osteoporosis, Osteoarthritis, and Musculoskeletal Disease. April 10-13, 2025. Rome, Italy.

Bullock GS, Wolf K, Martin CM, Shrier I, Impellizzeri F, Ward P, Shanley E, Thigpen CA, Nicholson KF. Examination of the Construct Validity of Nextiles Sleeve as a Measure of Peak Elbow Varus Torque. World Physiotherapy Congress. May 29-31, 2025. Tokyo, Japan.

Bullock GS, Wolf K, Shrier I, Impellizzeri F, Ward P, Shanley E, Thigpen CA, Nicholson KF, Martin CM. Barriers and Facilitators of Implementing Biomechanical Devices in Elite Baseball Pitchers and Training Staff: A Qualitative Study. World Physiotherapy Congress. May 29-31, 2025. Tokyo, Japan.

Hrabovsky K, **Bullock GS,** Clement C, Hughes MS. What Outcomes Should We Expect from Definitive Fusion Vs. Growing Implants in Young Tweens with Idiopathic Scoliosis. Scoliosis Research Society 60th Annual Meeting. September 16-20, 2025. Charlotte, NC.

Parmar A, Dewig D, Cohen A, **Bullock GS,** Gatti A, Harkey M. Upper Extremity Kinematic Synergies in Baseball Pitching: Insights from the Open Biomechanics Project. International Society of Biomechanics Annual Meeting. July 27-30, 2025. Stockholm, Sweden.

Marks ME, Mossbauer M, **Bullock GS,** Moore JB, Miles CM, Foley K, Chapman L, Flashman LA, Stitzel J, Urban JE. Evaluating the Effects of an Evidence-Based Practice Intervention on Athlete Neurocognitive Outcomes in Youth Football. National Neurotrauma Society Annual Symposium. June 15-18, 2025.

Philadelphia, PA.

Filbay SR, Egerton T, **Bullock GS.** Similar return-to-sport rates and activity levels following management with anterior cruciate ligament reconstruction versus rehabilitation-alone. Australian Physiotherapy Association Scientific Conference. October 23-25, 2025. Adeliade, Australia.

Marks KM, Romero GA, Miles CM, **Bullock GS,** Stitzel JD, Urban JE, Pritchard NS. Does it Matter: the effect of mats on head accelerations during landings in gymnastics. School of Biomedical Engineering and Sciences (SBES) Annual Symposium. April 28, 2025. Winston-Salem, NC.
Pritchard NS, Brandt KE, **Bullock GS,** Kruse DW, Miles CM, Moore JB, Stitzel JD, Urban JE. Utilizing Head Motion Measurements and Stakeholder Engagement to Develop Post-Concussion Return to Sport Strategies for Women's Artistic Gymnasts. Concussion in Sport Group (CISG) Symposium. April 30-May 1, 2025. Milwaukee, WS.

Bullock GS, Raisanen AR, Martin MD, Martin CL, Galarneau JM, Whittaker JL, Bizzini M, Bourne M, Dijkstra HP, Dube MO, Crossley K, Emery CE. Prevention strategies for lower extremity injury: A systematic review and meta-analyses for the Female, woman, and girl Athlete Injury pRevention (FAIR) consensus. Sports Medicine Australia. October 31-November 1, 2025. Hobart, Australia.

Heming EE, Gibson E, Friesen K, Martin MD, Martin CL, Galarneau JM, Blauet C**, Bullock GS,** Dube MO, Crossley K, Emery CE. Prevention strategies and modifiable risk factors for upper extremity injury: A systematic review and meta-analysis for the Female, woman and girl Athlete Injury pRevention (FAIR) Consensus. Sports Medicine Australia. October 31-November 1, 2025. Hobart, Australia.

Whittaker JL, Raisanen AR, Martin MD, Martin CL, Galarneau JM, **Bullock GS**, Bizzini M, Bourne M, Dijkstra HP, Dube MO, Crossley K, Emery CE. Modifiable risk factors for lower extremity injury: A systematic review and meta-analyses for the Female, woman, and girl Athlete Injury pRevention (FAIR) consensus. Sports Medicine Australia. October 31-November 1, 2025. Hobart, Australia.

Hrabovski K, **Bullock GS**, O'Gara T. What Outcomes Should We Expect from Definitive Fusion vs. Growing Implants in Young Tweens with Idiopathic Scoliosis? International Conference of Early Onset Scoliosis and the Growing Spine. November 5-7, 2025. Cannes, France.

Harmody KC, Perrone CS, **Bullock GS,** Morrison D, McKane A, Shields J. Factors Influencing Aseptic Loosening in Total Knee Arthroplasty: The Impact of Age, BMI, and Race. American Association of Hip and Knee Surgeons Annual Meeting. October 23-26, 2025. Dallas, TX.

Fernandez GF, Nicholson KF, **Bullock GS.** Evaluating Fastball Biomechanical Responses to Cumulative Pitch Count: A Comparison of N-of-1 and Group Modeling Approaches. Biomedical Engineering Society Annual Meeting. October 8-11, 2025. San Diego, CA.

Smith C, **Bullock GS,** Urban JE, Stitzel JS. Comprehensive Mechanics-Based Metrics for Quantification of Head Impacts from Kinematics. Biomedical Engineering Society Annual Meeting. October 8-11, 2025. San Diego, CA.

Parmar A, Dewig DR, Cohen A, **Bullock GS**, Gatti AA, Harkey MS. Upper Extremity Kinematic Synergies in Baseball Pitching: Insights from the OpenBiomechanics Project. American Society of Biomechanics Annual Meeting. August 13-16, 2025. Pittsburg, PA, USA.

Shanley E, Thigpen CA, Kline D, Noonan T, Kissenberth T, **Bullock GS.** Weighted Ball Training and Injury Risk: a two-year interim study. Combined Section Meetings. February 12-14, 2026. Anaheim, CA.

Martin M, **Bullock GS,** Galarneau JM, Schneider G, Mohtadi NG, Emery CA. Femoroacetabular Impingement Syndrome in Ice Sport Athletes: Are females unique? Canadian Institute of Health Annual Meeting. September 10, 2025. Calgary Canada.

Martin CL, Oliver GD, Friesen KB, Chandran A, Rao N, Kucera KL, Shanley E, **Bullock GS,** Marshal SW.

Epidemiology of Injuries Among Girl's High School Softball: 2014-2015 Through 2018-2019. Sports Medicine Institute Annual Conference. Chapel Hill, NC. September 26, 2025.

Perrone, C., Harmody, K.C., McKane, A., Morrison, D., Shilt, J., **Bullock, G**., Shields, J.S. *Factors Influencing Aseptic Loosening in Total Knee Arthroplasty: The Impact of Age and Race.* Poster accepted presentation at: North Carolina Orthopaedic Society Annual Meeting November 14-16th 2025: Asheville, NC.

Raisanen A, **Bullock GS,** Ruppert S. Faculty and Staff Health in Context: A Study of Wellness Culture in Higher Education. American College of Health Annual Meeting. May 26-30, 2025. Denver CO.

Romero GA, Carter WS, Pitchards NS, **Bullock GS,** Moore JB, Holcomb TY, Marks ME, Miles CM, Register-Mihalik J, Stitzel JD, Foley KL, Urban JE. Examining the Impact of Implementation Fidelity on Head Acceleration Outcomes in Youth Tackle Football. International Pediatric Brain Injury Society's 6th Biennial Conference on Pediatric Brain Injury. April 29-May 2, 2026. Calgary, Alberta, Canada.

Hovermale RA, Pritchard NS, Marks ME, Holcomb TY, Smith C, Chapman L, Flashman L, **Bullock GS,** Stitzel JS, Urban JE. Associations Between Cumulative DAMAGE and Neurocognitive Outcomes in Youth Football Athletes. International Pediatric Brain Injury Society's 6th Biennial Conference on Pediatric Brain Injury. April 29-May 2, 2026. Calgary, Alberta, Canada.

Bullock GS, Bestwick-Stevens T, Kluzek S. Predicting Poor Recovery After Ankle Injury for Targeted RCTs: External Validation of an Existing Tool Using a Large Prospective Cohort. Sports Kongress. January 28-February 1, 2026. Copenhagen, Denmark.

Marter JA, Smith KC, **Bullock GS,** Waterman BR, Trasolini NA. Risk Factors for Failed Same-Day Discharge After Shoulder Arthroplasty: Retrospective Analysis to Inform Inpatient vs. Outpatient Surgical Planning. Surgical Sciences Research Conference. November 17, 2025. Winston-Salem, NC.

Perrone C, Harmody K, McKane A, Shields J, **Bullock GS,** Shilt J. Factors Influencing Aseptic Loosening in Total Knee Arthroplasty: The Impact of Age and Race. Surgical Sciences Research Conference. November 17, 2025. Winston-Salem, NC.

Crossley KM, Whittaker JL, Patterson BE, Shill IJ, Heming E, **Bullock GS**, Dijkstra HP, Donaldson A, McKay CD, Mountjoy M, Møller M, Owoeye OBA, Räisänen AM, Schulz JM, Blauwet C, McHugh TL, Mosler A, Myklebust G, Palmer D, Ross AG, Schneider KJ, Jane S Thornton JS, Chintoh A, Verhagen E, Emery CA. Female, Woman, and/or Girl Athlete Injury pRevention (FAIR) Practical Recommendations: International Olympic Committee Consensus. Women in Sport Conference. March 1, 2026. Brisbane, Australia.

Hemming EM, **Bullock GS,** Martin CL, Martin MC, Galarneau JM, Bizzini M, Bourne M, Dijkstra P, Dube MO, Girdwood MA, Hayden KA, Hagglund M, McLeod S, Mkumbuzi NS, Mosler AB, Murphy MC, Myklebust G, Møller M, Ocarino JM, Owoeye OBA, Palmer D, Pasanen K, Rio E, Thorborg K, van Middlekoop M, Verhagen EALM, Warden SJ, Whalan M, Crossley KM, Emery CA. Prevention strategies and modifiable risk factors for upper extremity injury: A systematic review and meta-analysis for the Female, woman and girl Athlete Injury pRevention (FAIR) consensus. Women in Sport Conference. March 1, 2026. Brisbane, Australia.

Losciale JL, Amuan ME, Panahi S, Martin CL, **Bullock GS,** Pugh MJ. GLENOHUMERAL JOINT INJURIES INCREASE THE ABSOLUTE RISK OF FUTURE OSTEOARTHRITIS DEVELOPMENT IN UNITED STATES VETERANS. Osteoarthritis Research Society International Conference. April 23-26, 2026. West Palm Beach, FL.

Losciale JL, Amuan ME, Panahi S, Martin CL, **Bullock GS,** Pugh MJ. MUSCULOSKELETAL INJURIES TO EITHER THE HIP, KNEE, OR ANKLE CAUSE AT LEAST AN 13% INCREASED ABSOLUTE RISK OF FUTURE OSTEOARTHRITIS DEVELOPMENT IN UNITED STATES VETERANS. Osteoarthritis Research Society International Conference. April 23-26, 2026. West Palm Beach, FL.

Martin N, **Bullock GS,** Heerey J, Mohtadi N, Kemp J, Emery CE. Early Detection and Prevention of Hip and Groin-Related Injuries in Female Youth Athletes: A Potential Step Toward Osteoarthritis Prevention. McCaig International Research Conference. March 11-14, 2026. Calgary, Canada.

Crossley KC, Whittaker JL, Patterson BE, Shill IJ, Heming E, **Bullock GS,** Dijkstra P, Donaldson A, McKay C, Mountjoy M, Moller M, Oluwatoyosi OBA, Raisanen A, Schulz JM, Blauwet C, McHugh TL, Mosler AB, Myklebust G, Palmer D, Ross AG, Schneider KJ, Thornton JS, Chintoh A, Verhagen E, Emery CA. Female, woman and girl Athlete Injury pRevention (FAIR) practical recommendations: International Olympic Committee Consensus. Canadian Association of Sport and Exercise Medicine. April 29-May 2, 2026. Kelowna, BC, Canada.

Emery CA, Crossley KC, Whittaker JL, Patterson BE, Shill IJ, Heming E, **Bullock GS,** Dijkstra P, Donaldson A, McKay C, Mountjoy M, Moller M, Oluwatoyosi OBA, Raisanen A, Schulz JM, Blauwet C, McHugh TL, Mosler AB, Myklebust G, Palmer D, Ross AG, Schneider KJ, Thornton JS, Chintoh A, Verhagen E, Crossley KC. Prevention strategies for lower-extremity, upper-extremity, concussion, and spine+ injuries in female, woman, and girl athletes. Canadian Association of Sport and Exercise Medicine. April 29-May 2, 2026. Kelowna, BC, Canada.

Romero GA, Carter WS, Pritchard NS, **Bullock GS,** Moore JB, Holcomb TD, Marks ME, Register-Mihalik J, Stitzel JD, Foley KL, Urban JE. Evaluating COACH: Relationships Between Minutes Time Spent in Live Tackling Drills and Head Acceleration Events in Youth Football. World Congress of Biomechanics. July 11-15, 2026. Vancouver, BC, Canada.

Smith CD, Mink ZR, Pritchard NS, **Bullock GS,** Harper MG, Urban JE, Stitzel JS. Characterizing Head Acceleration Events in Stock Car Auto Racing by Head Kinematics Derived Principal Direction of Force (PDOF). World Congress of Biomechanics. July 11-15, 2026. Vancouver, BC, Canada.

Mink ZR, Smith CD, Pritchard NS, **Bullock GS,** Harper MG, Urban JE, Stitzel JS. Constructing Head Acceleration Event Corridors in Stock Car Racing. World Congress of Biomechanics. July 11-15, 2026. Vancouver, BC, Canada.

Martin M, **Bullock GS,** Heerey J, Mohtadi M, Kemp J, Emery CA. Injury Incidence Rates, Burden and Risk Factors for Hip, Groin, Pelvis, and Upper Leg Injuries in Adolescent Sport. Canadian Association of Sport and Exercise Medicine. April 29-May 2, 2026. Kelowna, BC, Canada.

Henson-Vedrell AM, Chung J, Martinez V, **Bullock GS,** Glazier M, Reynolds A, Waterman BR. Radiographic Stress Shielding of Inlay Versus Onlay Humeral Stems Following Reverse Total Shoulder Arthroplasty: A Multicenter Study. International Congress on Shoulder and Elbow Surgeons. September 22-25, 2026. Vancouver, BC, Canada.

Fisher N, **Bullock GS,** Seymour S, Bosse M, Reider R, Karunaker MA. Are outcomes of type III open calcaneus fractures superior to early amputation at 18 months? Orthopaedic Trauma Association Annual Conference. September 23-26, 2026. Nashville, TN.

Traven S, **Bullock GS, Sell TC,** Seymour S, Bosse M, Reider R, Karunaker MA. Gait and Timed Up and Go Improvements following Surgical Fixation of Ankle Fractures. Orthopaedic Trauma Association Annual Conference. September 23-26, 2026. Nashville, TN.

Henson-Vendrell A, **Bullock GS,** Waterman BR, Reynolds A. QT vs BTB Autografts: Isokinetic Quadriceps Symmetry After ACLR. Eastern Orthopaedic Association Annual Meeting. October 14-17, 2026. Miami, FL.

Marter J, Smith K, Entesarri M, **Bullock GS**, Reynolds A, Waterman BR, Trasolini N. Risk Factors for Failed Same-Day Discharge After Shoulder Arthroplasty: A Retrospective Analysis to Inform Inpatient vs. Outpatient Surgical Planning. International Congress of Shoulder and Elbow Surgeons. September 22-25, 2026. Vancouver, Canada.

INVITED EXTRAMURAL PRESENTATIONS AND SEMINARS

Keynote Presentation

Bullock G. Early identification and treatment of at-risk overhead athletes. Akron Children's Hospital Annual Sports Medicine Symposium, March 2, 2018.

Bullock G. Integration of pitching biomechanics to create effective injury prevention programs in professional baseball players. Presentation, Texas Rangers Major League Baseball Club, February 17, 2020.

Bullock G. Integrating low tech prediction modelling methods onto the field: It's about Stakeholder involvement. Presentation, Wake Forest Baseball Bridge Seminar, December 12, 2021.

Bullock G. Identifying injury risk factors in pitchers. Presentation, Houston Astros Major League Baseball Club February 8, 2022.

Bullock G. Effects of COVID-19 on Athlete Health and Injury. Presentation, University of Calgary IOC Injury Prevention Centre, September 29, 2022.

Bullock G. Wearable Technology in Sports, Future Innovations. Presentation. American College of Medicine Mid-Atlantic Region, November 4, 2022.

Bullock GS**,** Pastva A, Bowen M, Duncan PD. Harnessing the Bright Lights of Medicine. Presentation. California Physical Therapy Association. October 7, 2023.

Bullock GS, Kluzek S. Using Open Science and Co-Production to Get the Best Out of Your Athletes. British Association of Sport and Exercise Medicine. Leeds, United Kingdom. November 18, 2025.

Bullock GS, Kluzek S. Creating N-1 Models to for Athlete Precision Medicine. European College of Sport Medicine. Dusseldorf, Germany. November 22, 2025.

Other Presentations

Bullock G. Biometrics Programming. Researcher, Major League Baseball Winter Meetings, December 2014.

Bullock G. Understanding and Evaluating Overhead Athlete Red Flags. Presentation, East Carolina University School of Medicine, February 2015.

Bullock G. Programming Strength and Conditioning for the Overhead athlete. Presentation, Annual Overhead Athlete Injury Prevention, East Carolina University, February 2016.

Bullock G. Developing the Overhead Athlete. Presentation, Annual Baseball Conference, Duke University Sports Science Institute, March 2016.

Bullock G. Integrating the Functional Movement Screen and Y-Balance Test into Athletic Development. Presentation, Department of exercise Science, Queens University of Charlotte, May 1, 2016.

Bullock G. Overhead and Baseball Throwing Baseball Biomechanics and Kinesiology. Presentation, Department of Exercise Science, Ferrum College, April 1, 2017.

Bullock G. Minimal Dose Response: Understanding and Implementing Athletic Monitoring and Testing

Within and Athletic Organization Presentation, Athletic Department, North Carolina State University, May 1, 2017.

Cook G, Bullock GS, Javadifar M. Presentation, Virginia Commonwealth University Physical Therapy Department, October 10, 2017.

Bullock G. Taking out the Negative: Individualizing System and Objective Assessment in Athletic Populations Practical Applications: Case Studies in Rehabbing the Overhead Athlete, March 2, 2018.

Bullock G. Practical Applications: Case Studies in Rehabbing the Overhead Athlete. Presentation, Symposium, Akron Children's Hospital Annual Sports Medicine March 10, 2018.

Bullock G. Implementation of Ergogenic Aids in Elite Athlete Training. Presentation, Department of Exercise Science, Queens University of Charlotte, September 5. 2018.

Bullock G. Injury Risk Models in High School Baseball Pitchers, Sabermetrics, Scouting, and the Science of Baseball. Presentation, Boston University August 10, 2019.

Bullock G. Creating a Holistic Integrated Sports Medicine Model in Collegiate Athletics. Presentation, Wake Forest University School of Medicine, Warwick, United Kingdom, September 18, 2019.

Bullock G. Overhead Athlete Case Studies, Physio First. Presentation, Warwick, United Kingdom October 10, 2019.

Bullock G. Osseous and Musculoskeletal Adaptations in Overhead Athletes. Presentation, Department of Exercise Science, Queens University of Charlotte, February 19, 2020.

Bullock G. Organizational Risk Profiling and Education Associated with Reduction in Professional Pitching Arm Injuries: An interrupted time series analysis. Presentation, Department of Physical Therapy, Northwestern University, May 11, 2020.

Bullock G. Risk profiling and education reduces arm injury incidence in professional baseball players. Presentation, Ground Rounds, Wake Forest School of Medicine, March 1, 2021.

Bullock G. Integrating low tech prediction modelling methods into clinical practice. Presentation, Global Neurosurgery & Neurology, Duke School of Medicine, April 29, 2021.

Bullock G. Pitching Biomechanics: Integration & Application. Presentation, Sport Residency, ATI Physical Therapy, May 2, 2021.

Bullock G. Risk profiling and education, the value of stakeholder involvement. Presentation, Wake Forest Surgical Sciences, July 25, 2021.

Bullock G. Research Transparency and Methods Matter: It's About Improving Patient Care. Presentation, Wake Forest Podiatry Department, Research, September 21, 2021.

Bullock G. Risk, Prediction, and Epidemiological Research. Presentation, Hand Department, Wake Forest School of Medicine, September 21, 2021.

Bullock G. Impact of COVID-19 on High School Injuries. Department of Exercise Science, Presentation, University of North Carolina Chapel Hill, October 18, 2021.

Bullock G. Understanding the Impact of COVID-19 on High School Injuries, Generalizing Towards the Future. Presentation, Musculoskeletal Institute, Atrium, November 20, 2021.

Bullock G. Development and Integration of Arm Injury Prediction in a Professional Baseball Organization. Presentation, Wake Forest Department of Public Health and Statistics, January 11, 2022.

Bullock G. Translating Arm Injury Prediction Models into Clinical Practice. Presentation, American Society of Shoulder and Elbow Therapists, January 18, 2022.

Bullock G. Balance and Falls Prevention in Older Adults. Department of Orthopaedic Surgery, Wake Forest School of Medicine, April 19, 2022.

Bullock G. Military Injury Prevention: A Need for International Cooperation and Consensus. Presentation, Royal Army, London, May 31, 2022.

Bullock G. Military Injury Prevention: A Need for International Cooperation and Consensus. Presentation, University of Nottingham, May 31, 2022.

Bullock G. Reducing Injury Risk in Athletes and Older Adults: There is more Commonality than Meets the Eye. Presentation, Lady Margaret Hall, University of Oxford, June 2, 2022.

Bullock G. Reducing Injury Risk in Athletes and Older Adults: There is more Commonality than Meets the Eye. Presentation, Physical Therapy Department, Oxford Brookes University, June 2, 2022.

Bullock G. Pitching biomechanics: Moving beyond individual time points. Presentation, American College of Medicine Mid-Atlantic Region, November 4, 2022.

Bullock G. Development of an exercise therapy referral algorithm: Implementation and implications. Presentation, North Carolina Falls Coalition, March 3, 2023.

Bullock G. Feasibility of Implementing Falls Screening in a Fracture Liaison Clinic. Presentation, North Carolina Falls Coalition, March 3, 2023.

Bullock G. The need and priority of musculoskeletal injury data reporting for operational readiness for military service member. Presentation, NATO Coalition, March 4, 2023.

Bullock G. What we have learned from 10 years of Injury Prevention Programs. Presentation, Colorado Rockies, March 10, 2023.

Bullock G. Mathematical models in sport: Lessons learned. Wake Forest Biostatistical and Data Science Group. Presentation, October 17, 2023.

Bullock G. Development and implementation of injury risk models in baseball. Presentation, University of Calgary. October 18, 2023.

Bullock G. Translating arm risk: From the field to the clinic. Presentation, University of Southern California. October 26, 2023.

Bullock GS. Baseball injury and performance surveillance using wearable technology. Grand Rounds Presentation, Department of Orthopaedic Surgery & Rehabilitation, Wake Forest University School of Medicine. March 20, 2024.

Bullock GS. Reliability validity, and implementation of baseball wearable technology. Alumni of Department of Orthopaedic Surgery & Rehabilitation, Wake Forest University School of Medicine. May 3, 2024.

Shanley E, **Bullock GS.** Pre-Operative Education for Total Shoulder Arthroplasty. AOSSM-Arthritis Foundation Think Tank at the 2024 AOOSSM. Denver, CO. July 10, 2024.

Bullock GS. Screen to Succeed: Creating scalable high precision data collection pipelines for athlete surveillance and screening. Brown University. November 18, 2024.

Shanley E, **Bullock GS.** Implementing clinical measures and arm injury surveillance at scale: lessons from the trenches. Colorado Rockies. December 6, 2024.

Bullock G. Return to Sport Following ACL Injury: Balancing Surgery and Exercise Therapy. ATI National Journal Club. October 16, 2025.

Bullock GS, Fernandez G. Personalized Medicine in Orthopaedic Medicine: From data to the patient. Wake Forest University School of Medicine Grand Rounds. February 25. 2026.

Bullock GS, Dijkstra P. Creating a Global Individual Participant Data Registry for Young Athletes Hip Research. Aspetar Webinar Series. April 15, 2026.

Bevilacqua G, **Bullock GS.** Healthcare Trajectories Leading to Treatment Disparities for Musculoskeletal Hip Pain in Female Service Members. Aspetar Webinar Series. April 15, 2026.

Martin M, **Bullock GS.** Hip and Groin Pain in Female Athletes: Clinical Pearls, Pitfalls, and Insights from an Emerging Research Program. Aspetar Webinar Series. April 15, 2026.

DIDACTIC/SYSTEMATIC INSTRUCTION

University of Nottingham
Masters of Sports and Exercise Science
Masters Research Projects
Co-Investigator, 2 Hours
4/20-8/20

University of Oxford
Nuffield Department of Orthopaedics, Rheumatology & Musculoskeletal Sciences
Sports Medicine & Mechanisms of Injury
Course Director, 2 Hours
5/21-6/21

University of Oxford
Nuffield Department of Orthopaedics, Rheumatology & Musculoskeletal Sciences
Athletic Training & Strength and Conditioning
Course Director, 2 Hours
7/21-8/21

Wake Forest School of Medicine
Department of Biomedical Engineering
Biostatistics Independent Study
Course Director, 1 Hour
6/23-12/23

Wake Forest School of Medicine
Department of Biomedical Engineering
Prediction Independent Study
Course Director, 1 Hour
2/25-5/25

Wake Forest School of Medicine
Department of Biomedical Engineering
Sport Biomechanics Independent Study
Course Director, 1 Hour
2/25-5/25

SHORT COURSES

Data Driven Sport Analytics Summer School
University of Oxford
Lady Margaret Hall
Course Co-Director
5/24

Data Driven Sport Analytics School
University of Oxford
Lady Margaret Hall
Course Co-Director
2/25

MENTORING RELATIONSHIPS:

Post-Doctoral Scholars

2023-2024	Tru P. Byrne TL-1 National Institute of Health Scholar Thesis Committee Member Current Position: Clinical Nurse Leader
2024-Present	Nicholas S. Pritchard Research Associate Secondary Advisor Current Position: Research Associate
2026-2029	Ash Kolstad Canadian Institute of Health Research Scholar Primary Advisor Current Position: Post-Doctoral Scholar
2026-2029	Gregorio Bevilacqua Department of Defense Post-Doctoral Scholar Primary Advisor Current Position: Post-Doctoral Scholar

Graduate Students

2021-2022	Joseph Mylott Biomedical Engineering Graduate Program Thesis Committee Member Current Position: Baltimore Orioles, Director of Biomechanics
2021-2022	Anna Kaneb Biomedical Science Graduate Program Thesis Committee Member Current Position: Medical Student
2021-2023	Tanner Filben Biomedical Engineering Graduate Program PhD Thesis Committee Member Current Position: PhD Student
2021-2023	Nicholas Pritchard Biomedical Engineering Graduate Program PhD Thesis Committee Member Current Position: PhD Student
2022-2025	Stuart Wallace Department of Public Health Sciences University of Connecticut PhD Thesis Committee Member Current Position: PhD Student
2022-2025	Garrett Fernandez Biomedical Engineering Graduate Program PhD Thesis Committee Member

Current Position: Detroit Tigers Director of Performance

2022-2025 Jakob Wolf
Biomedical Engineering Graduate Program
MSc Thesis Committee Member
Current Position: MSc Student

2022-2024 Maitland Martin
Department of Kinesiology
University of Calgary
MSc Thesis Committee Member
Current Position: PhD Student

2022-2024 Giovanny Romero
Biomedical Engineering Graduate Program
MSc Thesis Committee Member
Current Position: MSc Student

2022-2025 Ty Holcomb
Biomedical Engineering Graduate Program
PhD Thesis Committee Member
Current Position: PhD Student

2022-2025 Chelsea Martin
Department of Epidemiology
University of North Carolina Chapel Hill
PhD Thesis Committee Member
Current Position: PhD Student

2022-2025 Edward Beck
Biomedical Engineering Graduate Program
MSc Thesis Committee Member
Current Position: Orthopaedic Surgeon Resident

2023-2025 Matthew Hartshorne
Department of Exercise Science
University of North Carolina Chapel Hill
PhD Thesis Committee Member
Current Position: PhD Student

2023-2025 Jared Duane
Biomedical Engineering Graduate Program
MSc Thesis Committee Member
Current Position: MSc Student

2024-2026 Adam Pinkoski
Department of Epidemiology
University of Alberta
PhD Committee Member
Current Position: Director of Sport Science, Tampa Bay Buccaneers

2024-2026 Captain Jeffrey Turner
Department of Exercise Science
University of North Carolina Chapel Hill
PhD Thesis Committee Member
Current Position: PhD Student

2024-2026	Eric Gibson Department of Kinesiology University of Calgary PhD Thesis Committee Member Current Position: PhD Student
2024-2028	Maitland Martin Department of Kinesiology University of Calgary PhD Thesis Committee Member Current Position: PhD Student
2024-2026	William Carter Biomedical Engineering Graduate Program MSc Thesis Committee Member Current Position: MSc Student
2024-2026	Nicholas Cavallero Biomedical Engineering Graduate Program MSc Thesis Committee Member Current Position: MSc Student
2024-2026	Zoie Mink Biomedical Engineering Graduate Program MSc Thesis Committee Member Current Position: MSc Student
2024-2027	Giovanny Romero Biomedical Engineering Graduate Program PhD Thesis Committee Member Current Position: PhD Student
2026-2029	Nicholas Cavallero Biomedical Engineering Graduate Program PhD Thesis Committee Member Current Position: PhD Student
2026-2029	Zoie Mink Biomedical Engineering Graduate Program PhD Thesis Committee Member Current Position: PhD Student

Graduate Interns

2020	Bailey Veraneau Elon School of Physical Therapy Capstone Advisor Current Position: Physical Therapist
2020	Betsy Tadlock Elon School of Physical Therapy Capstone Advisor Current Position: Physical Therapist
2020	Thomas Bestwick-Stevens

University of Nottingham Summer Advisor
Current Position: PhD Student, University of Nottingham

2021 — Chelsea Leonard Martin
ATI Physical Therapy Research Advisor
Current Position: PhD Student, University Of North Carolina Chapel Hill

2021 — Alyssa Shupe
Elon School of Physical Therapy Capstone Advisor
Current Position: Elon Physical Therapy Student

2022 — Miles Moore
Duke University of Physical Therapy Research Methods Advisor
Current Position: Duke Physical Therapy Student

2022 — Natalie Hosmer
Duke University of Physical Therapy Research Methods Advisor
Current Position: Duke Physical Therapy Student

2023 — Molly Ehrig
National Science Foundation Summer Intern Advisor
Current Position: Masters of Biostatistics
Duke University

2023-2024 — Hannah Zhao
Duke University of Physical Therapy Research Methods Advisor
Current Position: Duke Physical Therapy Student

2024 — Zach Maxey
Major League Baseball Analytics Winter Intern Advisor
Current Position: Sport Science Masters
Michigan State University

<u>Undergraduates Interns</u>

2020 — Menon Gautam
Centre for Sport, Exercise, and Osteoarthritis Summer Intern Advisor
Current Position: Medical Student, University of Oxford

2021 — Jenna Cohen
National Science Foundation Summer Intern Advisor
Current position: Major League Baseball Draft Analyst

2021-2022 — Hannah Knapic
Elon School of Public Health Honors Intern Advisor
Current Position: Epidemiology Masters Student,
University of Illinois Chicago

2022 — Charles Arnold
National Science Foundation Summer Intern Advisor
Current Position: Undergrad Physics Major
Rochester Institute of Technology

2023 — Ana Maria Campos
National Science Foundation Summer Intern Advisor

Current Position: Computer Science Major
Texas Christian University

2023 Zach Maxey
Sport Science and Analytics Summer Intern Advisor
Current Position: Business Analytics Major
Miami of Ohio University

2024 Isaac Torine
Major League Baseball Analytics Winter Intern Advisor
Current Position: Sport Analytics Major
Indiana University

Sports Physical Therapy Residents

2023 Mohammad Saad
Elon University Physical Therapy Sports Resident
Current Position: Physical Therapist

PUBLIC OUTREACH

1. Wake Forest University Summer Immersion Program, Sports Medicine focus, introducing high school students to the field of sports medicine and orthopaedics, what is sport biomechanics? (June and July), 2019.

2. The Perry Initiative, introducing female high school students to orthopaedics and biomedical engineering, March, 2022.

3. Wake Forest University Summer Immersion Program, Sports Medicine focus, introducing high school students to the field of sports medicine and orthopaedics, assessing the Overhead Athlete. (June and July), 2022.

4. Wake Forest University Summer Immersion Program, Sports Medicine focus, introducing high school students to the field of sports medicine and orthopaedics, Interpreting Pitching Biomechanics: Clinical Applications, (June and July), 2023.

5. Wake Forest University Summer Immersion Program, Sports Medicine focus, introducing high school students to the field of sports medicine and orthopaedics, Interpreting Pitching Biomechanics: Clinical Applications, (June and July), 2024.

6. Wake Forest University Summer Immersion Program, Sports Medicine focus, introducing high school students to the field of sports medicine and orthopaedics, Interpreting Pitching Biomechanics: Clinical Applications, (June and July), 2025.

7. Wake Forest University Summer Immersion Program, Sports Medicine focus, introducing high school students to the field of sports medicine and orthopaedics, Interpreting Pitching Biomechanics: Clinical Applications, (June and July), 2026.