

# Gretchen Dawn Oliver, PhD, FACSM, ATC /LAT, CES

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## EDUCATION

- 1999-2003 Texas Woman's University, Denton, TX  
Doctor of Philosophy in Kinesiology, Biomechanics
- 1997-1999 University of Arkansas, Fayetteville, AR  
Master of Science in Education, Kinesiology  
Emphasis in Biomechanics
- 1992-1996 University of Arkansas, Fayetteville, AR  
Bachelor of Science in Education, Kinesiology  
Emphasis in Athletic Training

## PROFESSIONAL

- 2019-Present Professor  
Director of Sports Medicine & Movement Laboratory in the School of Kinesiology  
Auburn University, Auburn, AL
- 2014-2019 Associate Professor  
Director of Sports Medicine & Movement Laboratory in the School of Kinesiology  
Director of Sports Medicine USA Team Handball  
Auburn University, Auburn, AL
- 2012-2014 Assistant Professor  
Director of Sports Medicine & Movement Laboratory in the School of Kinesiology  
Director of Sports Medicine USA Team Handball  
Auburn University, Auburn, AL
- 2006-2012 Assistant Professor  
Director of University of Arkansas Sport Biomechanics Group  
Clinical Coordinator of the Graduate Athletic Training Education Program  
University of Arkansas, Fayetteville, AR
- 2005- 2006 Assistant Professor  
Associate Program Director/Clinical Coordinator of Graduate Athletic Training  
Education Program  
Stephen F. Austin State University, Nacogdoches, TX
- 2004-2005 Assistant Professor  
Director of the Athletic Training Education Program  
Eastern Kentucky University, Richmond, KY
- 2002-2005 Assistant Professor  
Clinical Coordinator of the Graduate Athletic Training Education Program  
Eastern Kentucky University, Richmond, KY

## Research Summary

I established the Sports Medicine & Movement Laboratory within the School of Kinesiology at Auburn University in 2013. Since then, the lab has excelled in an injury prevention and performance enhancement innovation initiative. From my broad background in sports medicine, particularly rehabilitation of athletic injury, as well as biomechanics, I have been able to apply those principles to the development of injury prevention programs for throwing athletes. The Sports Medicine & Movement Laboratory aims to disseminate injury prevention and performance enhancement knowledge, encourage athletic performance, and ultimately improve sport with innovative initiatives with a primary focus on the sport of softball.

The Sports Medicine & Movement Lab is heavily involved in translating the laboratory data to how it can impact the athlete, the sports medicine clinician, and the orthopedic to further the development of injury prevention protocols. Specifically, the lab has worked extensively with female fast-pitch softball athletes, and youth baseball, team handball, and US Polo Association athletes. Over 900 youth and adolescent baseball and softball athletes, and over 150 collegiate softball athletes (from more than 30 different Universities) have participated in research in the Sports Medicine & Movement Lab.

## Book Chapters

1. Starkey AC, **Oliver GD** (2009). Administration and Management. In: Cummings, N.H. & Stanley-Green, S. (Eds.) *Perspectives in Athletic Training*. Albany, NY: Content Concepts Publishing, Inc.

## Journal Guest Associate Editor

Biomechanics and Control of Human Movement, *Frontiers in Sports and Active Living*

## Journal Editor

Biomechanical Basis of High-Speed Throwing Injury and Performance

The Biomechanics of Overhead Throwing Sports Skills

## Peer Reviewed Publications

\*indicates a graduate student author under my supervision; \*\*indicates an undergraduate student author under my supervision; †indicates corresponding author; for all 'first' author publications, I also served as corresponding author. Beginning in 2016 if a student under my supervision was first author, then I would default to supervising corresponding author (last author).

### 2022 Publications

168. Everhart K\*, Friesen K, Bordelon N\*, Fava A\*, Plummer H, Shannon D, **Oliver GD†**. Single Leg Squat and Reported Upper Extremity Pain in Collegiate Softball Pitchers. *Orthopedic Journal of Sports Medicine*. 2022
167. Fava AW\*, Giordano K, Friesen K, Nguyen A\*, **Oliver GD†**. No Differences in Trunk and Pelvis Kinematics between Pain and Pain-Free Youth Baseball Pitchers: A Cross-Sectional Study. *Orthopedic Journal of Sports Medicine*. 2022
166. de Swart, AFMJ\*, van Trigt, B, Wasserberger K\*, Hoozemans, MJM, Veeger DHEJ, **Oliver GD†**. Energy Flow Through the Lower Extremities in Baseball Pitching. *Sports Biomechanics* 2022. <https://doi.org/10.1080/14763141.2022.2129430>
165. Friesen KB, Lang AE, Chad KE, **Oliver GD†**. An Investigation of Bilateral Symmetry in Softball Pitchers According to Body Composition. *Frontiers in Sports and Active Living*. 2022; 4: 868518. DOI: 10.3389/fspor.2022.868518
164. Bordelon NM\*, Wasserberger KW, Downs-Talmage JL, Friesen KB, Dugas JR, **Oliver GD†**. Pelvis and Trunk Energy Flow in Collegiate Softball Pitchers With and Without Upper Extremity Pain. *American Journal of Sports Medicine* 2022
163. Giordano KA, Wasserberger KW, Oliver GD†. Altered Cervical Spine Position Results in Decreased Shoulder Rotation Strength. *Clinical and Orthopedic Related Research* 2022; DOI 10.1097/CORR.0000000000002212
162. Ulman S, Erdman A, Loewen A, Dressing M, Wyatt C, **Oliver GD**, Butler LS, Dai Sugimoto, Black A, Janosky J. Concurrent Validity of Movement Screening Criteria Designed to Identify Injury Risk Factors in Adolescent Female Volleyball

161. Butler L, DiSanti J, Sugimoto D, Hines D, DelBel M, **Oliver GD**<sup>†</sup>. Apples to Oranges: Inconsistencies in Defining and Classifying Youth Sport Populations. *Clinical Journal of Sports Medicine* 2022 doi: 10.1097/JSM.0000000000001038
160. Friesen KB, Saper MG, **Oliver GD**<sup>†</sup>. Biomechanics Related to Increased Softball Pitcher Shoulder Stress: Implications for Injury Prevention. *American Journal of Sports Medicine*. 2022; 50 (1): 216-223.
159. Friesen KB, Aguinaldo A, Oliver GD<sup>†</sup>. Athlete Body Composition Influences Movement During Sporting Tasks: An Analysis of Softball Pitchers' Joint Angular Velocities. *Sport Biomechanics* <https://doi.org/10.1080/14763141.2022.2060853>
158. Fava A\*, Downs Talmage JL\*, Plummer HA, **Oliver GD**<sup>†</sup>. Drive-leg Kinematics During the Windup and Pushoff Is Associated with Pitching Kinetics at Later Phases of the Pitch. *American Journal of Sports Medicine* 2022; 50(5): 1409-1415. <https://doi.org/10.1177%2F03635465221077451>
157. Friesen KB, **Oliver GD**<sup>†</sup>. Predicting Shoulder Force to Prevent Injury: Body Fat Mass Increases Shoulder Stress Among Pitchers. *Medicine & Science in Sport and Exercise*. 2022; 54(3): 432-437.
156. Friesen K, **Oliver GD**<sup>†</sup>. Softball Pitching Propulsion and Performance Differences According to Body Fat Percentage. *International Journal of Sports Medicine*. 2022.
155. Barfield J, Bordelon NM\*, Wasserberger KW, **Oliver GD**<sup>†</sup>. Preliminary Analysis of Closed Kinetic Chain Upper Extremity Stability Test Differences between Healthy and Previously Injured/In-Pain Baseball Pitchers. *Sports Health* 2022
154. Bordelon NM\*, Friesen KB, Fava A\*, Plummer HA, **Oliver GD**<sup>†</sup>. Peak Elbow Flexion Does Not Predict Peak Shoulder Distraction Force or Ball Velocity in NCAA Division I Softball Pitchers. *Orthopedic Journal of Sports Medicine* 2022.
153. Downs Talmage J\*, Cramer AM\*\*, **Oliver GD**<sup>†</sup>. Residual Effects of Glenohumeral Range of Motion, Strength, and Humeral Retroversion on Prior Overhead Athletes Post Cessation of Sport. *Orthopedic Journal of Sports Medicine*. 2022; 10(5): 23259671221091996
152. Giordano K, **Oliver GD**<sup>†</sup>. Statistical Parametric Mapping Analysis of Cervical Positioning on Shoulder Rotation Strength. *Clinical Orthopaedics and Related Research*. 2022
151. Watts M, Bobo L, Whitehead M, Dompier T, **Oliver GD**<sup>†</sup>. Characteristics of Injury in Collegiate Rodeo. *Clinical Journal of Sports Medicine*. 2022; 32(2):e145-150. <https://doi.org/10.1097/jsm.0000000000000904>

## 2010-2021 Publications

150. Bordelon NM\*, Wasserberger KW\*, Downs Talmage J\*, Friesen KB, Washington J, **Oliver GD**<sup>†</sup>. Segment Power Analysis of Collegiate Softball Hitting. *Sports Biomechanics* 2021.
149. Plummer HA, Bordelon NM\*, Wasserberger KW\*, Opitz T, **Oliver GD**<sup>†</sup>. Association Between Hip Range of Motion and Pitching Kinematics in High School Baseball Pitchers. *International Journal of Sports Physical Therapy*. 2021
148. Friesen KB\*, Saper MG, **Oliver GD**<sup>†</sup>. Biomechanics Related to Increased Softball Pitcher Shoulder Stress: Implications for Injury Prevention. *American Journal of Sports Medicine*. 2022; 50: 216-223.
147. Downs J\*, Gilliam J\*, Chaudhari A, **Oliver GD**<sup>†</sup>. Differences in Lower Extremity Kinematics Between Collegiate and Youth Softball Pitchers. *Orthopedic Journal of Sports Medicine*. 2021; 9(11): 23259671211052022
146. Lee Y-A, Salahuddin M, Gibson-Young, **Oliver GD**. Assessing Personal Protective Equipment Needs for Healthcare Workers. *Health Science Reports*. 2021; 4(3): <https://doi.org/10.1002/hsr2.370>

145. Plecher ER, Friesen KB, **Oliver GD**, Lovalekar M, Gorse K, Nagai T, Connaboy C. Drive Leg Ground Reaction Forces and Rate of Force Development Over Consecutive Windmill Softball Pitches. *Journal of Sports Medicine and Physical Fitness*. 2022
144. Friesen K\*, Barfield J\*, Murrah W, Dugas J, Andrews J, **Oliver GD**†. The Association of Upper Body Kinematics and ERA of National Collegiate Athletic Association Division I Softball Pitchers. *Journal of Strength and Conditioning Research*. 2021 [10.1519/jsc.0000000000003287](https://doi.org/10.1519/jsc.0000000000003287)
143. Wasserberger KW\*, Friesen KB\*, Downs JL\*, Bordelon NM\*, **Oliver GD**†. Comparison of Pelvis and Trunk Kinematics Between Youth and Collegiate Windmill Softball Pitchers. *Orthopedic Journal of Sports Medicine*. 2021; 9(8): 23259671211021826
142. Pletcher ER, Bordelon NM, **Oliver GD**, Lovalekar M, Gorse K, Nagai T, Connaboy C. The Influence of a Simulated Game on Muscular Strength in Female High-School and Collegiate Softball Pitchers. *Sports Biomechanics*. 2021 <https://doi.org/10.1080/14763141.2021.1941229>
141. Wasserberger KW\*, Giordano KA\*, de Swart A\*, Barfield JW\*, **Oliver GD**†. Energy Generation, Absorption, and Transfer at the Shoulder and Elbow in Youth Baseball Pitchers. *Sports Biomechanics*. 2021; <https://doi.org/10.1080/14763141.2021.1933158>
140. Barbosa GM, Ribeiro LP, Nasser AB, **Oliver GD**, Camargo PR. Shoulder Flexibility, Scapular and Clavicular Position, and Muscle Strength in Pediatric and Adult Amateur Tennis Athletes. *Journal of Sport Rehabilitation*. 2021; 3: 1-9.
139. Downs JL\*, Wasserberger KW\*, Barfield JW, Saper MG, **Oliver GD**†. Increased Upper Arm Length and Loading Rate Identified as Risk Factors for Injury in Baseball Pitchers. *American Journal of Sports Medicine*. 2021; 49(11): 3088-3093 <https://doi.org/10.1177/03635465211028555>
138. **Oliver GD**, Downs JL\*, Friesen KB\*, Saper MG, Dugas JR. NCAA Division I Collegiate Softball Pitchers Have Decreased Shoulder and Elbow Joint Loads in the Changeup Compared to Fastball and Curveball Pitches. *Orthopedic Journal of Sports Medicine*. 2021; 9(9): 23259671211026625
137. **Oliver GD**, Wasserberger KW\*, de Swart A\*, Friesen KB\*, Downs JL\*, Bordelon N\*. Relationship of Hip Range of Motion and Strength with Energy Flow during Softball Pitching in Youth. *Journal of Athletic Training*. 2021; 56(3): 280-285.
136. **Oliver GD**, Friesen KB\*, Barfield JW\*, Giordano KA\*, Bordelon NM\*, Anz AW, Goodlett MD, Andrews JR. Lower Extremity Pain and Pitching Kinematics and Kinetics in Collegiate Softball Pitchers. *International Journal of Sports Medicine*. 2021; 42: 544-549 DOI: 10.1055/a-1263-0938
135. Friesen KB\*, Shaw RE\*\*, Shannon DM, Dugas JR, Andrews JR, **Oliver GD**†. Single Leg Squat Compensations Associate with Softball Pitching Pathomechanics in Adolescent Softball Pitchers. *Orthopedic Journal of Sports Medicine*. 2021; 9(3) <https://doi.org/10.1177/2325967121990920>
134. Barfield JW, Wasserberger KW\*, **Oliver GD**†. The Relationship between Energy Flow Into and Out of the Humerus during the Baseball Pitch with the Closed Kinetic Chain Upper Extremity Stability Test. *International Journal of Sports Medicine*. 2021; 42: 760-765.
133. Downs J\*, Friesen K\*, Bordelon N\*, Shannon D, **Oliver GD**†. Kinematic Differences Exist Between the Fastball, Change-up, Curveball, and Drop-ball Pitch in Collegiate Softball Pitchers. *American Journal of Sports Medicine*. 2021; 49(4): 1065-1072.
132. Bordelon N\*, Wasserberger K\*, Cassidy M\*\*, **Oliver GD**†. The Effects of Load Magnitude and Carry Position on Lumbopelvic-Hip Complex and Scapular Stabilizer Muscle Activation during Unilateral Dumbbell Carries. *Journal of Strength & Conditioning Research*, 2021; 35: S114-S119. doi: 10.1519/JSC.0000000000003880

131. Giordano K\*, Chaput M, Anz A, Braziel J, Andrews J, **Oliver GD**<sup>†</sup>. Knee Kinetics in Baseball Hitting and Return to Play after ACL Reconstruction. *International Journal of Sports Medicine*. 2021; 42: 847-852.
130. **Oliver GD**, Downs J\*, Friesen K\*, Saper M, Anz A, Andrews J. Biceps Tendon Changes and Pitching Mechanics in Youth Softball Pitchers. *International Journal of Sports Medicine* 2021; 41: 277-282. DOI: 10.1055/a-1236-3855
129. Downs J\*, Wasserberger K\*, **Oliver GD**<sup>†</sup>. Influence of a Pre-throwing Program on Range of Motion and Strength in Baseball Athletes. *International Journal of Sports Medicine* 2021; 42(2): 183-190.
128. Friesen K\*, Zhang Z\*, Monaghan P\*, **Oliver GD**, Roper JA. All Eyes on You: How Researcher Presence Changes the Way You Walk. *Scientific Reports*. 2020 <https://doi.org/10.1038/s41598-020-73734-5>
127. Friesen K\*, Downs J\*, Wasserberger K\*, Shannon D, **Oliver GD**<sup>†</sup>. Glenohumeral and Hip Range of Motion in Youth Softball Athletes. *International Journal of Sports Medicine*. 2020; 41(01): 59-64.
126. Gilmer GG\*\*, Roberts MD, **Oliver GD**<sup>†</sup>. Evaluation of Serum Relaxin Concentrations and Knee Valgus After Anterior Cruciate Ligament Reconstruction. *Orthopaedic Journal of Sports Medicine*. 2020; 8 (4\_suppl3), <https://doi.org/10.1177/2325967120S00134>
125. **Oliver GD**, Downs JL\*, Friesen KB\*, Anz AW, Dugas JR, Andrews JR. Effects of a Simulated Game on Pitching Kinematics in Youth Softball Pitchers. *Orthopaedic Journal of Sports Medicine*. 2020; 8 (4\_suppl3), <https://doi.org/10.1177/2325967120S00135>
124. **Oliver GD**. CORR Insights®: How Do Scapulothoracic Kinematics During Shoulder Elevation Differ Between Adults With and Without Rotator Cuff Arthropathy? *Clinical Orthopaedics and Related Research*. 2020; 478(11): 2650-2652.
123. Friesen K\*, Anz A, Dugas J, Andrews J, **Oliver GD**<sup>†</sup>. The Effects of Body Mass Index on Softball Pitchers' Hip and Shoulder Range of Motion. *Sports Medicine International Open*. 2020; 5(1): E8-E13.
122. **Oliver GD**. Baseball Pitching and Softball Pitching: Why the Perplexity? *Journal of Translational Science*, 2020.
121. Hayano T, Plummer H, **Oliver GD**, Andrews J. Early Sport Specialization in the Adolescent Female Athlete. *Journal of Visualized Surgery* 2020.
120. **Oliver GD**, Downs J\*, Barbosa G\*, Camargo P. Descriptive Profile of Shoulder Range of Motion and Strength in Youth Overhead Sports. *International Journal of Sports Physical Therapy*. 2020; 15(6):1090-1098.
119. Brittain AR\*\*, Friesen KB\*, Wasserberger KW\*, Barfield JW, **Oliver GD**<sup>†</sup>. Single-Leg Squat Performance and Reported Pain within Youth Softball Players. *Journal of Applied Science*, 2020, 10(5): 1648; doi:10.3390/app10051648.
118. Gilmer G\*\*, Washington J, Roberts M, **Oliver GD**<sup>†</sup>. Preliminary Evaluation of Dynamic Knee Valgus and Serum Relaxin Concentrations after ACL Reconstruction. *Journal of Bone & Joint Surgery*. 2020; 5(1): e0060. [https://doi: 10.2106/JBJS.OA.19.00060](https://doi.org/10.2106/JBJS.OA.19.00060)
117. Wasserberger K\*, Barfield J\*, Downs J\*, **Oliver GD**<sup>†</sup>. Glenohumeral External Rotation Weakness Partially Accounts for Increased Humeral Rotation Torque in Youth Baseball Pitchers. *Journal of Science and Medicine in Sport*. 2020; 23(4): 361-365. <https://doi.org/10.1016/j.jsams.2019.10.025>
116. Downs J\*, Friesen K\*, Anz A, Dugas J, Andrews J, **Oliver GD**<sup>†</sup>. Effects of a Simulated Game on Pitching Kinematics in Youth Softball Pitchers. *International Journal of Sports Medicine*. 2020 <https://doi.org/10.1055/a-1062-6475>
115. Gilmer G\*\*, **Oliver GD**<sup>†</sup>. Preliminary Evaluation of Knee Kinetics in Female Athletes on Hormonal Contraceptives. *International Journal of Sports Medicine*. 2020; 41 (02): 113-118. <https://doi.org/10.1055/a-1034-7901>

114. Gilmer G\*\*, Roberts M, **Oliver GD**†. The Relationship Between Serum Relaxin Concentrations and Knee Valgus. *International Journal of Sports Medicine*. 2020; 41(3): 182-188. <https://doi.org/10.1055/a-1034-7901>
113. Washington J, **Oliver GD**. Relationship of Pelvis and Torso Angular Jerk to Hand Velocity in Female Softball Hitting. *Journal of Sports Sciences*. 2020; 38(1): 46-52. <https://doi.org/10.1080/02640414.2019.1679584>
112. Friesen K\*, Downs J\*, Wasserberger K\*, Shannon D, **Oliver GD**†. Glenohumeral and Hip Range of Motion in Youth Softball Athletes. *International Journal of Sports Medicine*. 2020; 41: 59-64 <https://doi.org/10.1055/a-1019-7742>
111. Wasserberger K\*, Downs J\*, Barfield J\*, Williams T\*\*, **Oliver GD**†. Lumbopelvic-hip Complex and Scapular Stabilizing Muscle Activations during Full-body Exercises With and Without Resistance Bands. *Journal of Strength and Conditioning Research*. 2020 <https://doi.org/10.1519/JSC.0000000000002842>.
110. Giordano K\*, Wasserberger K\*, Barfield J\*, **Oliver GD**†. Acute and Chronic Kinematic Effect of a Resistance Tubing Training Device on Youth Baseball and Softball Swings. *Journal of Athletic Enhancement*. 2019; 8(2): 1-7.
109. **Oliver GD**, Plummer HA, Henning LE\*, Saper M, Glimer GG\*\*, Brambeck A\*, Andrews JR. Effects of a Simulated Game on Upper Extremity Pitching Mechanics and Muscle Activations Among Various Pitch Types in Youth Baseball Pitchers. *Journal of Pediatric Orthopaedics*. 2019; 39 (8): 387-393. doi: 10.1097/BPO.0000000000000980
108. Wasserberger K\*, Barfield J\*, Anz A, Andrews J, **Oliver GD**†. Using Single Leg Squat as an Assessment of Stride Knee Mechanics in Adolescent Baseball Pitchers. *Journal of Science & Medicine in Sport*. 2019; 22 (11): 1254-1259.
107. **Oliver GD**, Gilmer G\*\*, Friesen K\*, Plummer H, Anz A, Andrews J. Functional Differences in Softball Pitchers With and Without Upper Extremity Pain. *Journal of Science & Medicine in Sport*. 2019, 22: 1079-1083.
106. **Oliver GD**, Saper M, Drogosz M, Plummer H, Arakkal A, Comstock D, Anz A, Andrews J, Fleisig G. Epidemiology of Shoulder and Elbow Injuries Among US High School Softball Players, 2005-2006 Through 2016-2017. *Orthopedic Journal of Sports Medicine*. 2019; 7 (9), 2325967119867428.
105. **Oliver GD**, Friesen K\*, Barfield J\*, Giordano K\*, Anz A, Dugas J, Andrews J. Association of Upper Extremity Pain with Softball Pitching Kinematics and Kinetics. *Orthopedic Journal of Sports Medicine*. 2019; 7 (8), 2325967119865171.
104. **Oliver GD**, Gilmer GG\*\*, Barfield J\*, Brittain A\*\*. Differences in Trunk and Upper Extremity Kinematics and Segmental Velocities During the Offside Forehand Polo Swing Between Male and Female Athletes. *Journal of Sports Sciences*. 2019 [10.1080/02640414.2019.1614713](https://doi.org/10.1080/02640414.2019.1614713)
103. Barfield J\*, **Oliver GD**†. Relationship Between Sport Specialization in Youth Baseball and Softball Athletes and Single-leg Squat Performance. *Journal of Athletic Training*. 2019; 54(10): 1067-1073.
102. Peart A\*, Wadsworth D, Washington JK\*, **Oliver GD**†. Body Composition Assessment in Female NCAA Division I Softball Athletes as a Function of Playing Position Across a Multiyear Timeframe. *Journal of Strength and Conditioning Research*. 2019; 33(11): 3049-3055.
101. Barfield J\*, Anz AW, Osterman C, Andrews JR, **Oliver GD**†. The Influence of An Active Glove Arm in Softball Pitching: A Biomechanical Evaluation. *International Journal of Sports Medicine*. 2019 ; 40(3): 200-208.
100. Gilmer GG\*\*, Washington JK\*, Dugas J, Andrews J, **Oliver GD**†. The Role of Lumbopelvic-Hip Complex Stability in Softball Throwing Mechanics. *Journal of Sport Rehabilitation*. 2018; 28 (2): 196-204 <https://doi.org/10.1123/jsr.2017-0276>
99. **Oliver GD**, Plummer HA, Washington JK\*, Weimar WH, Brambeck A\*. Effects of Game Performance on Softball Pitchers and Catchers. *Journal of Strength and Conditioning Research*. 2019; 33(2): 466-473 doi: 10.1519/JSC.0000000000001848

98. Barfield J\*, **Oliver GD**<sup>†</sup>. What Do We Know About Youth Softball Pitching and Injury? *Sports Medicine-Open*. 2018; 4:50 <https://doi.org/10.1186/s40798-018-0168-6>
97. Barfield JW\*, **Oliver GD**<sup>†</sup>. Acute Effects of a Resistance Tubing Training Device on Baseball Swing Kinematics. *Journal of Athletic Enhancement*. 2018; 7:4. doi:10.4172/2324-9080.1000305
96. Barfield JW\*, Plummer HA, Anz AW, Andrews JR, **Oliver GD**<sup>†</sup>. Biceps Tendon Changes in Youth Softball Pitchers Following an Acute Bout of Pitching. *International Journal of Sports Medicine*. 2018; 39:1-6. <https://doi.org/10.1055/a-0671-2170>
95. Barfield JW\*, **Oliver GD**<sup>†</sup>. Tuck Jump Assessment as an Indicator for Upper Extremity Injury. *Sports Medicine International Open*. 2018; 2:1-4. <https://doi.org/10.1055/a-0655-7345>
94. **Oliver GD**, Gilmer GG\*\*, Anz AW, Friesen K\*, Brittain A\*, Goodlett M, Dugas JR, Andrews JR. Upper Extremity Pain and Pitching Mechanics in NCAA Division I Softball. *International Journal of Sports Medicine*. 2018; 39:929-935. <https://doi.org/10.1055/1-0658-1546>
93. Barfield JW\*, Anz AW, Andrew JR, **Oliver GD**<sup>†</sup>. The Relationship of Glove Arm Kinematics with Established Pitching Kinematic and Kinetic Variables among Youth Baseball Pitchers. *Orthopedic Journal of Sports Medicine*. 2018; 6(7):1-6. doi:10.1177/2325967118784937
92. Gascon SS\*, Gilmer GG\*\*, Hanks MH\*, Washington JK\*, **Oliver GD**<sup>†</sup>. Biomechanical Influences of a Postural Compression Garment on Scapular Positioning. *International Journal of Sports Physical Therapy*. 2018; 13(4):1-7. doi:10.26603/ijsp201801
91. Gilmer GG\*\*, Washington JK\*, **Oliver GD**<sup>†</sup>. Assessment of Lumbopelvic-hip Complex Instability and Segmental Sequencing Amongst Softball Athletes. *International Biomechanics*. 2018; <https://doi.org/10.1080/23335432.2018.1481456>
90. Williams P\*, Barfield JW\*, **Oliver GD**<sup>†</sup>. EMG Analysis of Dynamic Warm-up Exercises for Overhead Sports. *Physical Medicine and Rehabilitation Research*. 2018; 3(2):1-5. doi:10.15761/PMRR.1000166
89. Hanks M\*, Brewer L\*, Gilmer G\*\*, **Oliver GD**<sup>†</sup>. The Influence of Self-Selected Protective Equipment on Kinematics in Youth Lacrosse Players. *Sports Medicine and Rehabilitation Journal*. 2018; 3(2):1031-1037.
88. **Oliver GD**, Washington JK\*, Friesen KB\*, Anz AW, Dugas JR, Andrews JR. The Effects of a Pre-Throwing Program on Collegiate NCAA Division I Softball Pitchers' Biomechanical Measures of Hip and Shoulder Range of Motion. *Journal of Orthopedic Research and Therapy*. 2018; doi:10.29011/2575-8241.000081
87. **Oliver GD**, Gilmer GG\*\*, Barfield JW\*, Brittain AR\*\*. Swing Mechanics of the Offside Forehand in Professional Female Polo Athletes. *Journal of Orthopaedic Research and Therapy*. 2018; doi:10.29011/2575-8241.000080
86. Washington JK\*, Gilmer GG\*\*, **Oliver GD**<sup>†</sup>. Influence of Acute Hip Abduction Fatigue on Lumbopelvic-Hip Complex Stability in Softball Players. *International Journal of Sports Medicine*. 2018; 39(7):571-575. <https://doi.org/10.1055/a-0577-3722>
85. Washington JK\*, **Oliver GD**<sup>†</sup>. Kinematic Differences Between Hitting Off a Tee Versus Front Toss in Collegiate Softball Players. *International Biomechanics*. 2018; 5(1): 30-35. <https://doi.org/10.1080/23335432.2018.1472038>
84. Washington JK\*, Gilmer GG\*\*, Barfield JW\*, Gascon SS\*, Saper M, Dugas J, Andrews J, **Oliver GD**<sup>†</sup>. Differences in Segmental Speeds as a Function of Maturation in Youth Baseball Pitchers. *International Journal of Sports Medicine*. 2018; 39:1-6. <https://doi.org/10.1055/s-0044-102134>
83. **Oliver GD**, Plummer HA, Washington JK\*, Saper M, Dugas J, Andrews J. Pitching Mechanics in Female Youth Fast-Pitch Softball. *International Journal of Sports Physical Therapy*. 2018; 13(3):493-500.
82. Gilmer GG\*\*, Gascon SS\*, **Oliver GD**<sup>†</sup>. Classification of Lumbopelvic-Hip Complex Instability on Kinematics Amongst Female Handball Athletes. *Journal of Science and Medicine in Sport*. 2018; 21: 805-810. <https://doi.org/10.1016/j.jsams.2017.12.009>

81. **Oliver GD**, Barfield JW\*, Gilmer GG\*\*, Brittain AA\*\*, Washington JK\*. Horizontal Shoulder Abduction and Elbow Kinetics in the Offside Forehand Polo Swing. *European Journal of Sports and Exercise Science*. 2018; 5(3): 53-58.
80. Hanks M\*, **Oliver GD**†. Muscle Activation Patterns in Wheelchair Basketball Athletes With and Without Physical Disability. *International Journal of Physiatry*. 2018; 4:1-8. doi:10.23937/2572-4215.1510013
79. **Oliver GD**, Washington JK\*, Gascon SS\*, Plummer HA, Escamilla R, Andrews J. Effects of Hip Abduction Fatigue on Trunk and Shoulder Kinematics During Throwing and Passive Hip Rotational Range of Motion. *Journal of Sport Rehabilitation*. 2018; <https://doi.org/10.1123/jsr.2017-0182>
78. Plummer HA, **Oliver GD**, Powers CM, Michener LA. Trunk Lean During a Single-Leg Squat is Associated With Trunk Lean During Pitching. *International Journal of Sports Physical Therapy*. 2018; 13:58-65. doi:10.26603/ijsp20180058
77. Hanks M\*, Sefton J, **Oliver GD**†. Neck kinematics and electromyography while wearing head supported mass during running. *Aerospace Medicine and Human Performance*. 2018; 89(1): 9-13. <https://doi.org/10.3357/AMHP.4955.2018>
76. **Oliver GD**, Washington JK\*, Barfield JW\*, Gascon SS\*, Gilmer GG\*\*. Quantitative Analysis of Proximal to Distal Kinetic Chain Musculature During Dynamic Exercises. *Journal of Strength and Conditioning Research*. 2018; 32(6): 1545-1553. doi: 10.1519/JSC.0000000000002036
75. Gascon SS\*, Gilmer GG\*\*, **Oliver GD**†. Influence of Posture-Cueing Compression Garment on Overhead Throwing Kinematics. *Journal of Clinical Diagnosis and Treatment*. 2017; 1:1-7.
74. Washington JK\*, Gascon SS\*, Clardy K\*\*, **Oliver GD**†. Differences in Throwing Kinematics Among Youth Baseball Pitchers and Football Quarterbacks. *Journal of Athletic Enhancement*. 2017; 6: doi: 10.4172/2324-9080.1000247
73. Plummer HA, **Oliver GD**†. The Effects of Localized Fatigue On Upper Extremity Jump Shot Kinematics and Kinetics in Team Handball. *Journal of Sports Sciences*. 2017; 35: 182-188. <http://dx.doi.org/10.1080/02640414.2016.1160143>
72. **Oliver GD**, Plummer HA, Gascon SS\*. Electromyographic Analysis of Traditional and Kinetic Chain Exercises for Dynamic Shoulder Movements. *Journal of Strength and Conditioning Research*. 2016; 30(11): 3146-3154.
71. Plummer HP\*, Henning LE\*, **Oliver GD**†. Comparison of Scapular Muscle Activations During Three Overhead Throwing Exercises. *International Journal of Sports Physical Therapy*. 2016; 11: 108-114.
70. Kephart WC, Mumford P, McCloskey AE, Holland A, Shake JJ, Mobley CB, Jagodinsky AE, Weimar WH, **Oliver GD**, Young KC, Moon JR, Roberts MD. Effects of Sub-Chronic Branched Chain Amino Acid Versus Carbohydrate Supplementation During Three Consecutive Resistance Training Bouts on Lower Body Strength As Well As Muscle Damage and Immune Markers. *Journal of the International Society of Sports Nutrition*. 2016; 13: 30. <https://doi.org/10.1186/s12970-016-0142-y>
69. Plummer HA\*, Gascon SS\*, **Oliver GD**†. Biomechanical Comparison of Three Perceived Effort Set Shots in Team Handball Players. *Journal of Strength and Conditioning Research*. 2016; 31: 80-87. doi: 10.1519/JSC.0000000000001475
68. **Oliver GD**, Plummer HA, Brambeck, A\*. Hip and Glenohumeral Range of Motion in Collegiate Softball Players. *International Journal of Sports Physical Therapy*. 2016; 11(5): 738-745.
67. **Oliver GD**, Weimar WH. Hip and Shoulder Rotational Range of Motion in Youth Baseball Pitchers. *Journal of Strength and Conditioning Research*. 2016; 30(10): 2823-2827. doi: 10.1519/JSC.0000000000000796
66. Holt TA\*, **Oliver GD**†. Hip and Upper Extremity Kinematics in Youth Baseball Pitchers. *Journal of Sports Sciences*. 2016; 34(9): 856-861. <http://dx.doi.org/10.1080/02640414.2015.1076163>
65. **Oliver GD**, Weimar WH, Henning LE\*. Effects of a Simulated Game on Muscle Activation in Youth Baseball Pitchers. *Journal of Strength and Conditioning Research*. 2016; 30(2): 425-420.

64. **Oliver GD**, Weimar WH. Scapular Kinematics in Young Baseball Pitchers. *Journal of Human Kinetics*. 2015; 49: 47-54. doi: 10.1515/hukin-2015-0107
63. Henning LE\*, Plummer HA\*, **Oliver GD**<sup>†</sup>. Scapula Muscle Activations During Overhead Throwing Holds. *International Journal of Athletic Therapy and Training*. 2016; 21(3): 42-46.
62. **Oliver GD**, Stone AJ, Washington JK\*. Hamstring and Gluteal Muscle Activation During the Assessment of Dynamic Movements. *International Journal of Athletic Training and Therapy*. 2016; 21(4): 30-33.
61. Keeley D, McClary M, **Oliver GD**, Dougherty C, Torry M. Reliability of an Electromagnetic Tracking System in Describing Pitching Mechanics. *Journal of Sports Technology*. 2015; 8(3-4): 112-117. <http://dx.doi.org/10.1080/19346182.2015.1119155>
60. Kliszczewicz B, Quindry J, Blessing LD, **Oliver GD**, Esco RM, Taylor JK. Autonomic Responses to an Acute Bout of High-Intensity Body Weight Resistance Exercise vs. Treadmill Running. *Journal of Strength and Conditioning Research*. 2016; 30: 1050-1058.
59. Kliszczewicz B, Quindry J, Blessing LD, **Oliver GD**, Esco RM, Taylor JK. Acute Exercise and Oxidative Stress: CrossFit™ vs. Treadmill Bout. *Journal of Human Kinetics*. 2015; 47: 81-90.
58. Plummer HA\*, **Oliver GD**<sup>†</sup>. The Effects of Aerobic Fatigue on Jump Shot Kinematics in Team Handball Players. *Journal of Biomedical Engineering and Informatics*. 2015; 2: 65-75. <http://dx.doi.org/10.5430/jbei.v2n1p65>
57. **Oliver GD**, Lohse K, Gascon S\*. Kinematics and Kinetics of Youth Baseball Catchers and Pitchers. *Sports*. 2015; 3: 246-257. doi:10.3390/sports3030246
56. **Oliver GD**, Plummer HP\*. Effects of Pitching a Simulated Game on Upper Extremity Kinematics in Youth Baseball Pitchers. *International Journal of Sports Exercise Medicine*. 2015; 1: 3. doi: 10.23937/2469-5718/1510016
55. Plummer HA\*, **Oliver GD**<sup>†</sup>. Descriptive Analysis of Kinematics and Kinetics of Catchers Throwing to Second Base From Their Knees. *Journal of Electromyography and Kinesiology*. 2016; 29: 107-112. doi: <http://dx.doi.org/10.1016/j.jelekin.2015.08.005>
54. Keeley DW, **Oliver GD**, Torry MR, Dougherty CP. Lower Body Predictors of Compressive Force in High School Baseball Pitchers. *Journal of Applied Biomechanics*. 2015; 31(3): 181-188.
53. **Oliver GD**, Stone AJ, Weimar WH, Lemak L, Washington JK\*, Dougherty C. Upper Extremity Muscle Activation During Bodyblade Exercise Following Six Weeks of Intervention Focusing on the Lumbopelvic-Hip Complex. *Sports*. 2015; 3: 188-201. doi:10.3390/sports3030188.
52. Plummer HA\*, **Oliver GD**<sup>†</sup>. Quantitative Analysis of the Kinematics of the Overhead Lacrosse Shot in Youth. *International Biomechanics*. 2015; 2(1): 29-35.
51. **Oliver GD**, Weimar WH, Plummer HA\*. Gluteus Medius and Scapula Muscle Activations in Youth Baseball Pitchers. *Journal of Strength and Conditioning Research*. 2015; 29(6): 1494-1499. doi: 10.1519/JSC.0000000000000797
50. **Oliver GD**, Weimar WH. Hip Range of Motion and Scapula Position During Youth Baseball Pitching Pre and Post Simulated Game. *Journal of Sports Sciences*. 2015; 33(14): 1447-1453. <http://dx.doi.org/10.1080/02640414.2014.990493>
49. Keeley DW, McClary MA, **Oliver GD**, Dougherty, CP. A Pre-Post Performance Comparison of the Long Head of the Biceps Brachii Muscle Oxygenation in Young Baseball Pitchers. *Journal of Sports Medicine and Physical Fitness*. 2014; 54: 118-123.
48. Keeley DW, **Oliver GD**, Torry MR, Wicke J. Validity of Pitch Velocity and Strike Percentage to Assess Fatigue in Young Baseball Pitchers. *International Journal of Performance Analysis in Sport*. 2014; 14(2): 355-366.

47. **Oliver GD**. A Case of Bilateral Unicameral Bone Cysts. *Orthopedics and Muscular System: Current Research*. 2014; s2:005 doi: 10.4172/2161-0533.s2-005
46. **Oliver GD**. Relationship Between Gluteal Activity and Upper Extremity Kinematics and Kinetics. *Medical and Biological Engineering and Computing*. 2014; 52(3): 265-270. Special Issue doi: 10.1007/s11517-013-1056-3.
45. Plummer HA\*, **Oliver GD**<sup>†</sup>. The Relationship Between Gluteal Activation and Throwing Kinematics in Baseball and Softball Catchers. *Journal of Strength and Conditioning Research*. 2014; 28: 87-96.
44. Wicke K, Keeley D, **Oliver GD**. Comparison of Pitching Kinematics Between Youth and Adult Baseball Pitchers: A Meta-Analysis Approach. *Journal of Sport Biomechanics*. 2013; 12(4): 315-323. doi:10.1080/14763141.2013.838692.
43. **Oliver GD**, DeWitt T. Four Week Lumbopelvic-Hip Complex Intervention Program and Its Effects on Tuck Jump Assessment in Active Youth. *Clinical Kinesiology*. 2013; 67(3): 39-43.
42. **Oliver GD**, Eubanks R\*\*. Kinematics and Kinetics of Drop Landings: Shod and Barefoot. *Journal of Athletic Medicine*. 2013; Sept 1(2): 91-97.
41. Plummer HA\*, **Oliver GD**<sup>†</sup>. Quantitative Analysis of Kinematics and Kinetics of Catchers Throwing Down to Second Base. *Journal of Sports Sciences*. 2013; 31(10): 1108-1116. <http://dx.doi.org/10.1080/02640414.2013.770907>
40. **Oliver GD**. Unicameral Bone Cyst in Active Adult Female. *International Journal of Athletic Therapy and Training*. 2013; 18: 33-36.
39. Hosokawa Y\*, **Oliver GD**<sup>†</sup>. Pubic Stress Fracture in College Lacrosse Player. *International Journal of Athletic Training and Therapy* 2013; 18: 7-10.
38. **Oliver GD**, Sola M\*, Dougherty CP, Huddleston S\*. Quantitative Examination of Upper and Lower Extremity Muscle Activation During Common Shoulder Rehabilitation Exercises Using the Bodyblade®. *Journal of Strength and Conditioning Research*. 2013; 27(9): 2509-2517. doi: 10.1519/JSC.0b013e31827fd4c2
37. Keeley DW\*, **Oliver GD**<sup>†</sup>, and Dougherty CP. Shoulder Kinematics During Pitching: Comparing the Slide Step and Traditional Stretch Deliveries. *Human Movement Science*. 2012; 31: 1191-1199.
36. Wozobski E\*, **Oliver GD**<sup>†</sup>, Bonacci J, Summers M. Small Bowel Injury in Collegiate Football Player. *International Journal of Athletic Training and Therapy*. 2012; 17: 33-37.
35. **Oliver GD**, Cohen JA\*. Clavicular Fractures: A Review of the Literature. *Minerva Orthopedica Traumatol* 2012; 63: 217-227. *Invited paper*.
34. **Oliver GD**. Injury Prevention in Active Youth. *News Medical*. 2012 *Invited* <http://www.news-medical.net/news/20120216/Injury-Prevention-in-Active-Youth.aspx>
33. Keeley DW\*, **Oliver GD**<sup>†</sup>, Dougherty CP. A Biomechanical Model Correlating Shoulder Kinetics to Pain in Young Baseball Pitchers. *Journal of Human Kinetics*. 2012; 34: 15-20.
32. Roling K\*, **Oliver GD**<sup>†</sup>, Dittmore S, Moiseichik M. The Effects of a Lumbopelvic-Hip Strengthening Intervention Program on Functional Testing in Collegiate Female Tennis Players. *Clinical Kinesiology*. 2012; 66(1): 13-18.
31. **Oliver GD**, Stone AJ\*, Wyman JW\*, Blazquez IN\*. Muscle Activation of the Torso During the RAZOR Curl Hamstring Exercise. *International Journal of Sports Physical Therapy*. 2012; 7(1): 49-57.
30. Suits JM\*, **Oliver GD**<sup>†</sup>. Bilateral Subtalar Coalition in a Division I Basketball Player: A Case Report. *Journal of Athletic Training* 2012; 47: 724-729.

29. Hall J\*, **Oliver GD**<sup>†</sup>, Stone AJ\*. Comparison of Active, Passive and Proprioceptive Neuromuscular Facilitation Stretching for Achieving Glenohumeral Internal Rotation. *Journal of Athletic Training and Sports Health Care*. 2012; 4(4): 181-188.
28. Adams-Blair HR, **Oliver GD**<sup>†</sup>. Physical Activity Integration into the Elementary Classroom. *International Journal of Health, Wellness, and Society*. 2011; 1(3): 147-154.
27. Keeley DW\*, Plummer HP\*, **Oliver GD**<sup>†</sup>. Predicting Asymmetrical Lower Extremity Strength Deficits in College Aged Males and Females Using Common Horizontal and Vertical Power Field Tests. *Journal of Strength and Conditioning Research*. 2011; 25(6): 1632-1637.
26. **Oliver GD**, Plummer HP\*, Keeley DW\*. Muscle Activation Patterns of the Upper and Lower Extremity During the Windmill Softball Pitch. *Journal of Strength and Conditioning Research*. 2011; 25(6): 1653-1658.
25. **Oliver GD**. Powering the Windmill: Lower Body Mechanics of Softball Pitching. *Lower Extremity Review*. 2011 June; *Invited Article, Cover Story*.
24. **Oliver GD**, Stone AJ\*, Booker JM\*, Plummer HA\*. A Kinematic and Kinetic Analysis of Drop Landings in Military Boots. *Journal of the Royal Army Medical Corps*. 2011; 157(3): 218-221.
23. **Oliver GD**, Plummer H\*. Ground Reaction Forces, Kinematics, and Muscle Activations During the Windmill Softball Pitch. *Journal of Sports Sciences*. 2011; 29(10): 1071-1077.
22. Rabe SB\*, **Oliver GD**<sup>†</sup>. Clavicle Fracture in a Collegiate Football Player: A Case Report of Rapid Return to Play. *Journal of Athletic Training*. 2011; 46: 107-111. *Feature Article*
21. **Oliver GD**, Aldrich TM\*, Moiseichik ML. Quantitative Analysis of sEMG of the Upper Extremity Musculature While Using Two Different Cutting Tools. *Clinical Kinesiology*. 2010; 64(4): 56-60.
20. **Oliver GD**, Stone AJ\*, Plummer H\*. Electromyographic Examination of Selected Muscle Activation During Isometric Exercises. *Clinical Journal of Sport Medicine*. 2010; 20(6): 452-457.
19. **Oliver GD**, Adams-Blair HR, Dougherty C. Implementation of a Core Stability Program for Elementary School Children. *Journal of Athletic Training and Sports Health Care*. 2010; 2(6): 261-266.
18. **Oliver GD**, Dwelly PM\*, Sarantis N\*, Helmer R\*, Bonacci J. Muscle Activation of Different Core Exercises. *Journal of Strength and Conditioning Research*. 2010; 24(11): 3069-3074.
17. **Oliver GD**, Keeley DW\*. Pelvic and Trunk Kinematics and Their Relationship to Shoulder Kinematics in High School Baseball Pitchers. *Journal of Strength and Conditioning Research*. 2010; 24(12): 3234-3240.
16. **Oliver GD**, Keeley DW\*. Gluteal Muscle Group Activation and its Relationship with Pelvic and Trunk Kinematics in High School Baseball Pitchers. *Journal of Strength and Conditioning Research*. 2010; 24(11): 3015-3022.
15. Keeley DW\*, Wicke J, Alford K, **Oliver GD**<sup>†</sup>. A Biomechanical Analysis of Forearm Pronation and its Relationship to Ball Movement for the Two-Seam and Four-Seam Fastball Pitches. *Journal of Strength and Conditioning Research*. 2010; 24(9): 2366-2371.
14. **Oliver GD**, Dwelly P\*, Kwon Y-H. Kinematic Motion of the Windmill Softball Pitch in Prepubescent and Pubescent Females. *Journal of Strength and Conditioning Research*. 2010; 24(9): 2400-2407.
13. **Oliver GD**, Dougherty CP. Muscle Activation of the Contralateral Leg During an Acute Achilles Tendon Rupture. *Journal of Strength and Conditioning Research*. 2010; 24(8): 2079-2084.

12. Aldrich T\*, Moiseichik M, **Oliver GD**<sup>†</sup>. Paddlesport Entanglement Safety Tools: Effectiveness and Efficiency in Knives and Shears. *Journal of Outdoor Recreation, Education, and Leadership*. 2010; 2(2): 5-8.
11. **Oliver GD**, Kerkhover A\*. Eales Disease: A Case Study. *Journal of Athletic Training and Sports Health Care*. 2010; 2(2): 89-92.
10. Rabe SB\*, **Oliver GD**<sup>†</sup>. Athletic Pubalgia: A Literature Review. *Journal of Athletic Training and Sports Health Care*. 2010; 2(1): 25-30. *Feature Article*
9. **Oliver GD**. The Windmill Softball Pitch: Optimal Mechanics and Pathomechanics of Injury. *Athletic Therapy Today*. 2010; 15(6): 28-31. *Invited Article*
8. **Oliver GD**. The Windmill Softball Pitch: Injury Prevention Implications. *International Journal of Athletic Therapy and Training*. 2010; 16(1): 27-31. *Invited Article*
7. **Oliver GD**, Adams-Blair H.R. The Importance of Core Strength for Prevention of Injury. *Journal of Physical Education, Recreation and Dance*. 2010; 81(7): 15-19. *Feature Article and Invited Article*
6. **Oliver GD**. Pelvic Neutral: Key to Balance Training. *Lower Extremity*. 2010; 2(4): 57-61. *Feature Article and Invited Article*
5. Adams-Blair HR, **Oliver GD**. C-hildren O-oriented R-eally fun E-xercises: A Practical Core Strengthening Program for Elementary Physical Education. P.E. Links4U, 2010; April 12(4). *Invited Article*
4. **Oliver GD**, Dougherty CP. Comparison of Hamstring and Gluteus Muscles Electromyographic Activity While Performing the RAZOR Curl Versus the Traditional Prone Hamstring Curl. *Journal of Strength and Conditioning Research*. 2009; 23(8): 2250-2255.
3. **Oliver GD**, DiBrezzo R. Functional Balance Training in Collegiate Women Athletes. *Journal of Strength and Conditioning Research*. 2009; 23(7): 2124-2129.
2. **Oliver GD**, Dougherty CP. The RAZOR Curl: A Functional Approach to Hamstring Strengthening. *Journal of Strength and Conditioning Research*. 2009; 23(2): 401-405.
1. DiBrezzo R, **Oliver GD**. ACL Injuries in Active Girls and Women. *Journal of Physical Education, Recreation, and Dance*. 2000;17(6):24-27.

### **Auburn Undergraduate Research Journal Publications**

These publications are from my undergraduate research fellows who received research fellowship funding to conduct the research.

8. Cassidy M\*\*, Bordelon N\*, Wasserberger K\*, Giordano K\*, **Oliver GD**<sup>†</sup>. Electromyographic Analysis of Shoulder Rotation Strength Testing Positions. *Auburn University Journal of Undergraduate Scholarship* 2021.
7. Cramer AM\*\*, Downs JL\*, **Oliver GD**<sup>†</sup>. Effects of Previously Playing an Overhead Throwing Sport in Shoulder Range of Motion, Strength, and Humeral Retroversion. *Auburn University Journal of Undergraduate Scholarship* 2021.
6. Phan J\*\*, Friesen K\*, **Oliver GD**<sup>†</sup>. Anthropometric Factors in Softball Hitting Performance. *Auburn University Journal of Undergraduate Scholarship* 2020.
5. Brittain A\*\*, **Oliver GD**<sup>†</sup>. Body Mass Index and Functional Movement Patterns in Collegiate Students. *Auburn University Journal of Undergraduate Scholarship*. 2019; 8: 21.
4. Brittain A\*\*, **Oliver GD**<sup>†</sup>. Mechanics of Professional Polo Players Exhibiting Pain vs. Players Without Pain. *Auburn University Journal of Undergraduate Scholarship*. 2018: 11.

3. Gilmer GG\*\*, Roberts M, **Oliver GD**<sup>†</sup>. Correlation of Pelvis Kinematics with Ground Reaction Forces, Muscle Activation, and Hormones During a Drop Vertical Jump. *Auburn University Journal of Undergraduate Scholarship*. 2018: 11.
2. Clardy K\*\*, Gascon SS\*, Gilmer GG\*, Washington JK\*, **Oliver GD**<sup>†</sup>. Kinematics of Youth Baseball Pitching and Football Passing. *Auburn University Journal of Undergraduate Scholarship*. 2017: 11.
1. Gilmer GG\*\*, Washington JK\*, Plummer HA, and **Oliver GD**<sup>†</sup>. Effects of Upper Extremity Pain History on Softball Pitching Mechanics of the Screwball. *Auburn University Journal of Undergraduate Scholarship*. 2017: 7.

## Peer Reviewed Abstract Publications

\* indicates a graduate student author under my supervision; \*\*indicates an undergraduate student author under my supervision; †indicates corresponding author; for all 'first' author publications, I also served as corresponding author. Beginning in 2016 if a student under my supervision was first author, then I would default to supervising corresponding author (last author).

123. Oliver GD, Bordelon NM\*, Dugas J (2022). The Association Between Trunk Energy Flow and Peak Shoulder Distraction Force in Collegiate Softball Pitching. *International Society of Biomechanics and Sport Proceedings*, Liverpool UK
122. Cassidy M\*, Giordano K, Oliver GD (2022). Comparison of Concentric and Eccentric Contractions in the Frontal and Scapular Plane for Rotational Strength Measurements. National Strength and Conditioning Association National Conference, New Orleans, Louisiana. *Journal of Strength and Conditioning Research Supplement*.
121. Everhart KM\*, Bordelon NM\*, Gober P\*\*, Oliver GD (2022). Relationship Between Active and Passive Hip Range of Motion and Collegiate Baseball Hitting Performance: A Pilot Study. National Strength and Conditioning Association National Conference, New Orleans, Louisiana. *Journal of Strength and Conditioning Research Supplement*.
120. Bordelon NM\*, Wasserberger K\*, Everhart KM\*, Oliver GD. Hip Rotational Isometric Strength but Not Lower Body Power is Related to Softball Hitting Performance. National Strength and Conditioning Association National Conference, New Orleans, Louisiana. *Journal of Strength and Conditioning Research Supplement*.
119. Novellino C\*\*, Fava A\*, Bordelon N\*, Nguyen A\*\*, Everhart\*, Oliver GD (2022). Comparing Kinetics of Pitch Type Between Youth Baseball Pitchers with and without Upper Extremity Pain. *Southeast American College of Sports Medicine 2022 Program*.
118. Gober P\*\*, Bordelon N, Everhart K, Oliver GD (2022). Comparing Training Volumes Between Softball Pitchers with and without Upper Extremity Pain. *Southeast American College of Sports Medicine 2022 Program*.
117. Bordelon N\*, Gober P\*\*, Downs Talmage J, Wasserberger K\*, Fava A\*, Everhart K\*, Dugas JR, Oliver GD (2022). Incidence of Pain in Youth Softball Pitchers and Positional Players. *Southeast American College of Sports Medicine 2022 Program*.
116. McCullough MB\*\*, Bordelon N\*, Friesen KB, Fava A\*, Everhart K\*, Oliver GD (2022). Pelvis and Trunk Kinematic Differences Exist Between Baseball Tee and Front Toss Hitting. *Southeast American College of Sports Medicine 2022 Program*.
115. Fava A.\*, Downs Talmage J, **Oliver GD** (2022). Leg Stiffness and Pitch Types in High School Baseball Pitchers. *Southeast American College of Sports Medicine 2022 Program*.
114. **Oliver GD**, Giordano KA (2021). The Role of Spinal Manipulation as a Moderator of Cervical Spine Position on Shoulder Rotation Strength. *International Journal of Sports Physical Therapy*.
113. Giordano KA, **Oliver GD** (2021). The Effects of Cervical Spine Position on Isokinetic Shoulder Rotation Strength. *International Journal of Sports Physical Therapy*.
112. Friesen KB\*, Bordelon NM\*, Downs Talmage J\*, Wasserberger KW, **Oliver GD**<sup>†</sup> (2021). High Body Fat Alters Throwing Shoulder Kinetics in Softball Pitchers: Implication for Injury Prevention. *IOC Injury World Conference on Prevention of Injury & Illness in Sport 6<sup>th</sup> Addition*.

111. Bordelon NM\*, Wasserberger K\*, Giordano K\*, Cassidy M\*\*, Mendel J\*\*, **Oliver GD**<sup>†</sup> (2021). Muscle Activation and Peak Torque Analysis During Commonly Used Shoulder Rotation Strength Testing Positions. *National Strength and Conditioning Association National Conference in Journal of Strength and Conditioning Research Supplement*
110. Lee, YA, Salahuddin, M, Gibson-Young, L, & **Oliver, G.** (2021). Assessment of Current Personal Protective Equipment for Healthcare Workers, International Textile and Apparel Association Annual Conference Proceedings, 77(1). <https://doi.org/10.31274/itaa.11861>
109. Bordelon NM\*, Wasserberger KW\*, Downs JL\*, Friesen KB\*, Washington JK, **Oliver GD**<sup>†</sup>. The Relationship between Humeral Segment Energy and Hand Angular Velocity in Softball Hitting. *American Society of Biomechanics Annual Meeting 2020.*
108. Giordano KA\*, Chaput M, Anz AW, Andrews JR, **Oliver GD**<sup>†</sup>. Knee Kinetics in Baseball Hitting and Their Implication for Return to Play After Anterior Cruciate Ligament Reconstruction. *American Society of Biomechanics Annual Meeting 2020.*
107. Barfield JW, Bordelon NM\*, Wasserberger KW\*, **Oliver GD**<sup>†</sup>. Bilateral Differences in Lumbopelvic-Hip Complex Kinematics during the Closed Kinetic Chain Upper Extremity Stability Test. *American Society of Biomechanics Annual Meeting 2020.*
106. Wasserberger KW\*, Giordano KA\*, Downs JL\*, **Oliver GD**<sup>†</sup>. Humeral Energy Transfer and Glenohumeral Rotation Strength in Adolescent Baseball Pitchers. *American Society of Biomechanics Annual Meeting 2020.*
105. Downs JL\*, Bordelon NM\*, Friesen KB\*, **Oliver GD**<sup>†</sup>. Hip Range of Motion and Isometric Strength Differences Between High and Low Batted Ball Velocity Hitters. *American Society of Biomechanics Annual Meeting 2020.*
104. **Oliver GD**, Downs JL\*, Friesen KB\*, Anz AW, Dugas JR, Andrews JR. Effects of a Simulated Game on Pitching Kinematics in Youth Softball Pitchers. *Orthopedic Journal of Sports Medicine* 2020. <https://doi.org/10.1177/2325967120S00135>
103. Gilmer G\*\*, Roberts M, **Oliver GD**<sup>†</sup>. Evaluation of Serum Relaxin Concentrations and Knee Valgus After Anterior Cruciate Ligament Reconstruction. *Orthopedic Journal of Sports Medicine* 2020. <https://doi.org/10.1177/2325967120S00134>
102. Downs JL\*, Friesen KB\*, Wasserberger KW\*, Giordano KA\*, Brittain AR\*, Bordelon NM\*, **Oliver GD**<sup>†</sup>. Association Between Pitching a Simulated Game and Pitching Performance in Youth Softball Pitchers. *Southeast American College of Sports Medicine 2020 Program.*
101. Kirkham CH\*\*, Brittain AR\*, Friesen KB\*, Downs JL\*, **Oliver GD**<sup>†</sup>. Association Between Long Head Bicep Tendon and Shoulder Range of Motion and Isometric Strength. *Southeast American College of Sports Medicine 2020 Program.*
100. Friesen KB\*, Downs JL\*, Wasserberger KW\*, Giordano KA\*, Bordelon NM\*, Brittain AR\*, **Oliver GD**<sup>†</sup>. Body Mass Index Affects Kinematic and Kinetic Parameters during the Windmill Softball Pitch. *Southeast American College of Sports Medicine 2020 Program.*
99. Brittain AR\*, Friesen KB\*, Wasserberger KW\*, Downs JL\*, Giordano KA\*, Bordelon NM\*, **Oliver GD**<sup>†</sup>. Associations between Single Leg Squat Stability and Overhead Throwing Kinetics in Youth Softball Athletes. *Southeast American College of Sports Medicine 2020 Program.*
98. Watterson MC\*\*, Giordano KA\*, Wasserberger KW\*, Friesen KB\*, Downs JL\*, **Oliver GD**<sup>†</sup>. Impact of Hip Internal and External Rotation on Shoulder Kinetics during a Baseball Pitch. *Southeast American College of Sports Medicine 2020 Program.*
97. Bordelon NM\*, Cassidy MM\*\*, Wasserberger KW\*, Downs JL\*, Friesen KB\*, Brittain AR\*, Giordano KA\*, **Oliver GD**<sup>†</sup>. The Effect of Load Magnitude on Muscle Activation during Unilateral Front Racked Dumbbell Carries. *Southeast American College of Sports Medicine 2020 Program.*
96. Young MW\*\*, Wasserberger KW\*, Down JL\*, Giordano KA\*, Washington JK, **Oliver GD**<sup>†</sup>. Does Pitch Location Affect Hitting Mechanics in Collegiate Softball Players? *Southeast American College of Sports Medicine 2020 Program.*

95. Wasserberger KW\*, Downs JL\*, **Oliver GD**†. Humeral Segment Energy and its Relationship to Clinical Glenohumeral Measures in Youth Baseball Pitchers. *Southeast American College of Sports Medicine 2020 Program*.
94. Brittain A\*\*, **Oliver GD**†. A Quantitative Analysis of Sport Specialization Among Youth Baseball and Softball Athletes. *Journal of Strength and Conditioning Research*. 2019.
93. Williams P\*, Barfield J\*, **Oliver GD**†. Relationship of Lumbopelvic-hip Stability on Ball Speed in Female Windmill Softball Pitchers. *Medicine & Science in Sports & Exercise*. 2019 49(5): S505.
92. Barfield J\*, **Oliver GD**†. Tuck Jump Assessment as an Indicator of Previous Upper Extremity Injury. *Orthopaedic Journal of Sports Medicine*, 2019; 7(3) (suppl 1) DOI: 10.1177/2325967119S00167
91. Watterson M\*\*, Barfield J\*, Harbinger J\*\*, Moultrie S\*\*, George J\*\*, **Oliver GD**†. Relationship Among Stability Grouping Between Three Different Stability Test. *Southeast American College of Sports Medicine 2019 Program*.
90. Downs J\*, Barfield J\*, Verhage T\*\*, Myrick M\*\*, **Oliver GD**†. Kinematic Changes in Baseball Pitching During Maturation in Adolescent Baseball Pitchers. *Southeast American College of Sports Medicine 2019 Program*.
89. Giordano K\*, Barfield J\*, Wasserberger K\*, **Oliver GD**†. Kinematic Effects of a Resistance Tubing Training Device Intervention on Youth Baseball and Softball Swings. *Southeast American College of Sports Medicine 2019 Program*.
88. Wasserberger K\*, Barfield J\*, Giordano K\*, Young M\*\*, **Oliver GD**†. Acute Effects of Resistance Tubing Device on Hand Path in Youth Baseball and Softball Hitters. *Southeast American College of Sports Medicine 2019 Program*.
87. Friesen K\*, Barfield J\*, Brittain A\*\*, **Oliver GD**†. A Regression Model Predicting Division I NCAA Softball Pitchers' ERA Based on Upper Extremity Kinematics. *Southeast American College of Sports Medicine 2019 Program*.
86. Williams P\*, Barfield J\*, Downs J\*, Wasserberger K\*, Friesen K\*, Brittain A\*\*, **Oliver GD**†. Relationship of Lumbopelvic-Hip Stability on Ball Speed in Female Windmill Softball Players. *Southeast American College of Sports Medicine 2019 Program*.
85. Gascon S\*, Brittain A\*\*, Washington J, Blackstock S\*\*, **Oliver GD**†. Influence of Posture-Cueing Garments on Scapular Positioning During a Softball Hitting Task. *Southeast American College of Sports Medicine 2019 Program*.
84. Barfield J\*, **Oliver GD**†. An Active Glove Arm is Associated with Decreased Kinetics in the Windmill Softball Pitch. *Southeast American College of Sports Medicine 2019 Program*.
83. Brittain A\*\*, Barfield J\*, Friesen K\*, **Oliver GD**†. The Role of Single Leg Squats in Predicting Pain Among Youth Softball Players. *Southeast American College of Sports Medicine 2019 Program*.
82. Washington JK, **Oliver GD**†. Electromyography Activation Patterns During the Softball Swing Among Collegiate Softball Players. *Southeast American College of Sports Medicine 2019 Program*.
81. **Oliver GD**, Gilmer G\*\*, Barfield J\*, Brittain A\*\*. Trunk and Upper Extremity Kinematics of the Offside Forehand Polo Swing in Professional Polo Athletes. *International Society of Biomechanics in Sport*, vol 36, 2018; Auckland, New Zealand.
80. **Oliver GD**, Gilmer G\*\*, Friesen K\*, Brittain A\*\*, Anz A, Goodlett M, Dugas J, Andrews J. Pitching Mechanics and Pain History in Collegiate Softball Pitchers. *International Society of Biomechanics in Sport*, vol 36, 2018; Auckland, New Zealand.
79. **Oliver GD**, Gilmer G\*\*, Friesen K\*, Plummer H, Anz A, Dugas J, Andrews J. Functional Characteristics of Softball Pitchers With and Without Pain. *Annual Meeting of the International Shoulder Group. Rochester, Minnesota 2018*.
78. Friesen K\*, Wasserberger K\*, Downs J\*, Washington J\*, Williams T\*\*, **Oliver GD**†. A Comparison of Total Body Band-Resisted Exercises on Gluteus Medius Activation. *American Society of Biomechanics Annual Meeting. Rochester, Minnesota 2018*.

77. Washington JK\*, Hanks MM\*, Gascon SS\*, Barfield JW\*, Williams P\*, Friesen K\*, Gilmer GG\*\*, Brittain A\*\*, **Oliver GD**†. Correlation of Lumbopelvic-Hip Complex Kinematics to Hand Angular Velocity in Softball Hitting: A Pilot Study. 2018.
76. Brittain A\*\*, Gilmer G\*\*, Barfield J\*, Washington J\*, **Oliver GD**†. Shoulder and Elbow Kinetics During Polo Offside Forehand Shots. *Southeast Chapter of American College of Sport Medicine 2018 Program*.
75. Barfield J\*, Washington J\*, Hanks M\*, Gascon S\*, Gilmer G\*\*, Brittain A\*\*, Williams P\*, Friesen K\*, **Oliver GD**†. Baseball Pitcher's Glove Arm Influence on Elbow and Shoulder Kinetics. *Southeast Chapter of American College of Sport Medicine 2018 Program*.
74. Gilmer G\*\*, Washington J\*, **Oliver GD**†. Effects of Lumbopelvic-Hip Complex Stability on Overhead Throwing Mechanics Amongst Collegiate Softball Athletes. *Southeast Chapter of American College of Sport Medicine 2018 Program*.
73. Gascon S\*, Gilmer G\*\*, Hanks M\*, Washington J\*, **Oliver GD**†. Biomechanical Influence of a Posture Compression Garment on Scapular Positioning. *Southeast Chapter of American College of Sport Medicine 2018 Program*.
72. Williams P\*, Washington J\*, Hanks M\*, Barfield J\*, Gilmer G\*\*, Gascon S\*, Friesen K\*, **Oliver GD**†. Examination of Proximal and Distal Muscle Activation: An EMG Study. *Southeast Chapter of American College of Sport Medicine 2018 Program*.
71. Hanks M\*, Brewer L, Gilmer G\*\*, Washington J\*, Barfield J\*, Friesen K\*, **Oliver GD**†. The Influence of Self-Selected Protective Equipment on Kinematics in Youth Lacrosse Players. *Southeast Chapter of American College of Sport Medicine 2018 Program*.
70. Downs J\*, Friesen K\*, Washington J\*, Gilmer G\*\*, **Oliver GD**†. Correlation of Pelvis Kinematics to Ground Reaction Force in Softball Hitting: A Pilot Study. *Southeast Chapter of American College of Sport Medicine 2018 Program*.
69. Gilmer G\*\*, Gascon S\*, **Oliver GD**†. The Biomechanical Effects of Lower Extremity Instability on Segmental Sequencing Amongst Female Handball Athletes. *American Physician Scientist Association 2017 Program*.
68. Gilmer G\*\*, Gascon S\*, **Oliver GD**†. Segmental Sequencing Among Female Handball Athletes. *Southeast Chapter of American College of Sport Medicine 2017 Program*.
67. Gilmer G\*\*, Gascon, S\*, Lohse K, **Oliver GD**†. Relationship Between Knee Valgus and Shoulder Kinematics Amongst Female Handball Athletes. *Southeastern Medical Scientist Symposium 2017 Program*.
66. Barfield J\*, Gascon S\*, Gilmer G\*\*, **Oliver GD**†. Segmental Sequencing Among Youth Baseball Pitchers: A Longitudinal Pilot Study. *Southeast Chapter of American College of Sport Medicine 2017 Program*.
65. Clardy K\*, Gascon S\*, Gilmer G\*\*, Washington J\*, **Oliver GD**†. Kinematics of Youth Baseball Pitching and Football Passing. *Southeast Chapter of American College of Sport Medicine 2017 Program*.
64. Henning L\*, Washington J\*, Hanks M\*, Gilmer G\*\*, Brambeck A\*, Gascon S\*, Barfield J\*, Holt T\*, **Oliver GD**†. Single-Leg Squat Trunk Kinematics in Individuals with and without Scapular Dyskinesia. *Southeast Chapter of American College of Sport Medicine 2017 Program*.
63. Brambeck A\*, **Oliver GD**†, Gascon S\*, Gilmer G\*\*, Fleisig G, Dugas J. Kinematics of Softball Pitching: Healthy Versus Those with Low Back Pain. *Southeast Chapter of American College of Sport Medicine 2017 Program*.
62. Holt T\*, **Oliver GD**†. Core Muscle Activity During Rock Climbing Compared to Plank Exercises. Annual Meeting and World Congress on Exercise is Medicine of the American College of Sports Medicine, San Diego, California. *Medicine and Science in Sports and Exercise*, 2015; 47:5 supplement.
61. Henning L\*, **Oliver GD**†. Functional Approach to Scapular Stabilization in Overhead Throwers. Annual Meeting and World Congress on Exercise is Medicine of the American College of Sports Medicine, San Diego, California. *Medicine and Science in Sports and Exercise*, 2015; 47:5 supplement.

60. **Oliver GD**<sup>†</sup>, Weimar W. Hip and Shoulder Range of Motion in Youth Baseball Pitchers. World Federation of Athletic Training and Therapy. Dublin, Ireland. *Journal of Athletic Training*, 2014; 39 (5): e3.
59. Plummer H\*, **Oliver GD**<sup>†</sup>. Anterior Hip Capsule Strain in a Team Handball Player. World Federation of Athletic Training and Therapy. Dublin, Ireland. *Journal of Athletic Training*, 2014; 39 (5): e3.
58. Holt T\*, Plummer H\*, Henning L\*, **Oliver GD**<sup>†</sup>. Torso Separation as Youth Baseball Pitchers Approach Pitch Count Limits. 61<sup>st</sup> Annual Meeting and 5<sup>th</sup> World Congress on Exercise is Medicine of the American College of Sports Medicine, Orlando Florida (2014).
57. Smith C\*\*, Holt T\*, Plummer H\*, Henning L\*, **Oliver GD**<sup>†</sup>. A Description of Upper Extremity Segmental Speeds in Youth Lacrosse Players. 61<sup>st</sup> Annual Meeting and 5<sup>th</sup> World Congress on Exercise is Medicine of the American College of Sports Medicine, Orlando Florida (2014).
56. Henning L\*, Holt T\*, Plummer H\*, **Oliver GD**<sup>†</sup>. Relationship Between Knee Kinematics and Elbow Kinetics During a lacrosse Shot. 61<sup>st</sup> Annual Meeting and 5<sup>th</sup> World Congress on Exercise is Medicine of the American College of Sports Medicine, Orlando Florida (2014).
55. Johnson R\*, **Oliver GD**<sup>†</sup>. Lumbopelvic Angular Kinematics in Youth Baseball Pitchers After a Simulated Game: A Comparison of Evaluation Methods. 61<sup>st</sup> Annual Meeting and 5<sup>th</sup> World Congress on Exercise is Medicine of the American College of Sports Medicine, Orlando Florida (2014).
54. Plummer H\*, **Oliver GD**<sup>†</sup>, Henning L\*, Holt T\*. Selected Kinetics During the Curveball and Drop Ball Pitches in Softball Pitchers. 61<sup>st</sup> Annual Meeting and 5<sup>th</sup> World Congress on Exercise is Medicine of the American College of Sports Medicine, Orlando Florida (2014).
53. **Oliver GD**, Plummer H\*, Haynie L\*\*, Henning L\*. Relationship of Single Leg Squat Kinematics on Upper Extremity Kinetics in Baseball Pitchers. 61<sup>st</sup> Annual Meeting and 5<sup>th</sup> World Congress on Exercise is Medicine of the American College of Sports Medicine, Orlando Florida (2014).
52. Johnson R\*, **Oliver GD**<sup>†</sup>. Lumbopelvic Angular Kinematics in Youth Baseball Pitchers After a Simulated Game. IOC World Conference on Prevention of Injury and Illness in Sport. Monaco, France (2014).
51. **Oliver GD**. Association of Hip ROM and Upper Extremity Kinetics in Youth Baseball Pitchers. IOC World Conference on Prevention of Injury and Illness in Sport. Monaco, France (2014).
50. Holt TE\*, Plummer HA\*, **Oliver GD**<sup>†</sup>. Effect of Fatigue on Elbow Kinetics in Youth Baseball Pitchers. *Medicine and Science in Sports and Exercise*, 2013; 45:5 Supplement.
49. Patel J, Jagodinsky A, **Oliver GD**, Weimar W. Force Test of Internal Rotation During Various Isometric Transverse Pelvic Girdle Rotations. *Medicine and Science in Sports and Exercise*, 2013; 45: 5 Supplement.
48. Plummer HA\*, **Oliver GD**<sup>†</sup>. Effects of Shoulder Fatigue on Scapular Kinematics in Pitchers. *Medicine and Science in Sports and Exercise*, 2013; 45: 5 Supplement.
47. **Oliver GD**, Dougherty E\*\*. Landing Mechanics in Female Basketball and Soccer Athletes. *Medicine and Science in Sports and Exercise*, 2013; 45: 5 Supplement.
46. **Oliver GD**, Stone AJ, Weimar W. Effects of Shoulder Fatigue on Ground Reaction Forces in Softball Players. *Medicine and Science in Sports and Exercise*, 2013; 45: 5 Supplement.
45. **Oliver GD**, Cohen JA\*, Sherrill J\*\*. The Effects of Fatigue on Pelvic and Scapula Stabilizers in Overhead Throwing. *Medicine and Science in Sports and Exercise*, 2013; 45: 5 Supplement.

44. **Oliver GD**, Cohen JA\*, Johnson R\*. Relationship Between Gluteal Activity and Upper Extremity Kinematics and Kinetics in Softball Players. The IX Conference of the International Shoulder Group, 2012: 16-17.
43. Parker J\*, Cohen JA\*, **Oliver GD**†. Quantitative Analysis of the Slide Step Delivery in Adolescent Baseball Pitchers. The Scientific Proceedings of the XXVIII International Conference on Biomechanics in Sports Conference. 2012; 4: 73-76.
42. **Oliver GD**, Johnson R\*. Quantitative Analysis of Throwing Mechanics in Softball Positional Players. The Scientific Proceedings of the XXX International Conference on Biomechanics in Sports Conference. 2012; 4: 77-80.
41. Hosokawa Y\*, **Oliver GD**†. Pubic Stress Fracture- Lacrosse. *Medicine and Science in Sports and Exercise*, 2012; 44: 5 Supplement.
40. Wozobski E\*, **Oliver GD**†, Bonacci J, Summers M. Abdominal Injury-Football. *Medicine and Science in Sports and Exercise*, 2012; 44: 5 Supplement.
39. Suskind K\*, **Oliver GD**†. Lateral Ankle Injury-Baseball. *Medicine and Science in Sports and Exercise*, 2012; 44: 5 Supplement.
38. Keeley DW\*, **Oliver GD**†, Dougherty CP, Torry M. Changes in Long Head of the Biceps Tendon Size Following an Extended Pitching Performance. *Medicine and Science in Sports and Exercise*. 2012; 44: 5 Supplement.
37. Sola M\*, **Oliver GD**†, Huddleston S\*. Quantitative Examination of Pelvic and Scapular Stabilizing Muscle Activation During Shoulder Rehabilitation. *Medicine and Science in Sports and Exercise*. 2012; 44: 5 Supplement.
36. Plummer HA\*, **Oliver GD**†, Romasco A\*, Holt T\*. Difference in Muscle Activations Following Drop Landing Biofeedback Intervention. *Medicine and Science in Sports and Exercise*. 2012; 44: 5 Supplement.
35. Romasco A\*, MacDonald K\*, Cohen JA\*, **Oliver GD**†. Hip Abduction Strength and its Relationship with Landing Mechanics. *Medicine and Science in Sports and Exercise*. 2012; 44: 5 Supplement.
34. Dwelly PD\*, Plummer HA\*, **Oliver GD**†. Quantitative Analysis of Throwing Kinematics of Skeletally Immature and Mature Catchers. International Society of Biomechanics XXIIIrd Congress, Brussels Belgium. 2011: 93.
33. Plummer HA\*, **Oliver GD**†, Dwelly P\*. Quantitative Analysis of Skeletally Immature and Mature Catchers' Muscle Activation During Throwing. International Society of Biomechanics XXIIIrd Congress, Brussels Belgium. 2011: 83.
32. **Oliver GD**, Plummer HA\*, Dwelly P\*. Relationship Between Torso Rotation and Gluteal Muscle Group Activation in Baseball and Softball Catchers. International Society of Biomechanics XXIIIrd Congress, Brussels Belgium. 2011: 153.
31. **Oliver GD**. Calcaneal Bone Cyst in Active Adult Female: A Case Study. *Athletic Training and Sports Health Care* 2011; 3(3): 154.
30. Roling K\*, **Oliver GD**†, Dittmore S, Moiseichik M. Gluteus Medius to Adductor Muscle Activation Ratio: Effects on Dynamic Knee Valgus. *Athletic Training and Sports Health Care* 2011; 3(3): 152.
29. Bonacci JA, Kurani A\*, **Oliver GD**†, Dwelly P\*. An Investigation in Comparing Stable and Unstable Rescuer Positions of Spine Boarding Extraction Protocols of Undocumented Injury Scenarios in a Gymnastics Pit. *Athletic Training and Sports Health Care* 2011; 3(3): 151-152.
28. Pettaway A\*, Dwelly P\*, Romasco A\*, Bonacci J, **Oliver GD**†. Effects of the Combination of Ultrasound and Transcutaneous Electrical Muscle Stimulation on Hamstring Range of Motion. *Athletic Training and Sports Health Care* 2011; 3(3): 150-151.
27. Dwelly P\*, Abe M\*, **Oliver GD**†. Association Between Hip and Shoulder Rotational Range of Motion in Collegiate Baseball Pitchers. *Athletic Training and Sports Health Care* 2011; 3(3): 145-146.

26. Black D\*\*, Stone AJ\*, Evanson K\*, **Oliver GD**<sup>†</sup>. Effects of Different Foot Conditions on sEMG of the Lower Leg During a Back Squat. *Medicine and Science in Sports and Exercise*; 2011; 43(5): 310 Supplement.
25. Keeley DW\*, **Oliver GD**<sup>†</sup>. Probability of Shoulder Pain in High School Baseball Pitchers. *Medicine and Science in Sports and Exercise*; 2011; 43(5): 621 Supplement.
24. Plummer H\*, **Oliver GD**<sup>†</sup>. Kinematics of Baseball and Softball Catchers Throwing Down to Second Base. *Medicine and Science in Sports and Exercise*; 2011; 43(5): 861 Supplement.
23. Keeley DW\*, Barber K\*\*, **Oliver GD**<sup>†</sup>. Kinematic Comparison of Pelvis Kinematics During the Baseball Pitch: Fatigued and Non-Fatigued Conditions. The Scientific Proceedings of the XXVIII International Conference on Biomechanics in Sports Conference 2010: 805-809.
22. **Oliver GD**, Keeley DW\*, Abe M\*. Quantitative Analysis of Core Musculature During Two Types of Baseball Pitches: Fastball and Change-Up. The Scientific Proceedings of the XXVIII International Conference on Biomechanics in Sports Conference 2010: 489-492. *New Investigator Award Finalist*
21. **Oliver GD**, Plummer H\*. Descriptive Analysis of sEMG During the Windmill Softball Pitch: Pre-Fatigue and Fatigued. The Scientific Proceedings of the XXVIII International Conference on Biomechanics in Sports Conference 2010: 815-819.
20. **Oliver GD**, Plummer H\*. Ground Reaction Forces, Kinematics, and Muscle Activations During the Softball Pitch. The Scientific Proceedings of the XXVIII International Conference on Biomechanics in Sports Conference 2010: 692-695.
19. **Oliver GD**, Plummer H\*. Quantifying sEMG in Pre-Fatigue and Fatigue States During the Fastball Baseball Pitch. The Scientific Proceedings of the XXVIII International Conference on Biomechanics in Sports Conference 2010: 225-229.
18. Keeley DW\*, **Oliver GD**<sup>†</sup>. Kinematic Comparison of Two Delivery Styles in High School Baseball Pitchers. *Medicine and Science in Sports and Exercises*; 2010; 42(5) Supplement.
17. Plummer H\*, **Oliver GD**<sup>†</sup>, Keeley D\*. Comparison of Shoulder Kinetics Across Two Delivery Styles in High School Baseball Pitchers. *Medicine and Science in Sports and Exercise*; 2010; 42(5) Supplement.
16. Plummer H\*, **Oliver GD**<sup>†</sup>, Keeley D\*. Quantitative sEMG Description of Upper Extremity Muscle Activation During Baseball Pitching: Pre-Fatigue and Fatigue. *International Journal of Exercise Science*. 2010; 4, Article 10.
15. Keeley D\*, **Oliver GD**<sup>†</sup>. Model Predicting Shoulder Compressive Force During Baseball Pitching. *International Journal of Exercise Science*. 2010; 4: Article 8.
14. Keeley DW\*, **Oliver GD**<sup>†</sup>, Dwelly P\*, Hoffman H\*\*, Dougherty CP. Relationships Between Hip and Shoulder Rotation During Baseball Pitching. The Scientific Proceedings of the XXVII International Conference on Biomechanics in Sports Conference 2009: 585.
13. Hoffman H\*\*, **Oliver GD**<sup>†</sup>, Keeley DW\*, Barber K\*\*, Dwelly P\*. The Relationship Between Gluteal Activity and Pelvic Kinematics During the Windmill Softball Pitch. The Scientific Proceedings of the XXVII International Conference on Biomechanics in Sports Conference 2009: 574.
12. Keeley DW\*, **Oliver GD**<sup>†</sup>, Dwelly P\*, Hoffman H\*\*. A Kinematic Description of the Post Pubescent Windmill Softball Pitching Motion. The Scientific Proceedings of the XXVII International Conference on Biomechanics in Sports Conference 2009: 538-541.
11. Keeley DW\*, **Oliver GD**<sup>†</sup>, Dwelly P\*, Hoffman H\*\*. A Kinematic Comparison of the Youth Pitching Motion Across Prepubescent and Pubescent Pitchers. The Scientific Proceedings of the XXVII International Conference on Biomechanics in Sports Conference 2009: 723-726.

10. Dwelly P\*, **Oliver GD**<sup>†</sup>, Adams-Blair HR., Keeley DW\*, Hoffman H\*. Improved Muscle Activation in Performing a Functional Lunge Compared to the Traditional Squat. *The Scientific Proceedings of the XXVII International Conference on Biomechanics in Sports Conference 2009*: 745-748.
9. **Oliver GD**, Dwelly P\*, Keeley DW\*, Hoffman H\*\*. Upper Extremity and Core Muscle Firing Patterns During the Windmill Softball Pitch. *The Scientific Proceedings of the XXVII International Conference on Biomechanics in Sports Conference 2010*: 767-770.
8. **Oliver GD**, Dwelly P\*, Keeley DW\*, Hoffman H\*\*. Examination of Gluteal Muscle Firing and Kinetics of the Lower Extremity During the Windmill Softball Pitch. *The Scientific Proceedings of the XXVII International conference on Biomechanics in Sports Conference 2009*: 608-611.
7. Keeley DW\*, **Oliver GD**<sup>†</sup>. Kinematic Differences in Youth Baseball Pitchers: An Investigation into the Cocking and Acceleration Phases. *Medicine and Science in Sports and Exercise*. 2009; 41: 5 *Supplement*.
6. **Oliver GD**, Dougherty CP. Muscle Activation of the Contralateral Leg During an Acute Achilles Tendon Rupture. *Medicine and Science in Sports and Exercise*. 2009; 41: 5 *Supplement*.
5. Dwelly PD\*, **Oliver GD**<sup>†</sup>, Adams-Blair HR. Improved Muscle Activation in Performing a Functional Lunge Versus a Traditional Squat. *Medicine and Science in Sports and Exercise*. 2009; 41: 5 *Supplement*.
4. **Oliver GD**, Adams-Blair HR. Core Stability in School Aged Children. *Supplement to Research Quarterly for Exercise and Sport*. 2009; 89: 117.
3. Adams-Blair H, **Oliver GD**<sup>†</sup>. Walking and Physical Activity Integration into the Classroom: Measurement and Evaluation Through Pedometer Use. *The Final Program at Walking for Health: Measurement and Research Issues and Challenges*. American College of Sports Medicine-University of Illinois, Urbana-Champaign Kinesmetrics Symposium Series 2005: 12.
2. **Oliver GD**, Wilkerson J, Kwon Y-H. Three-Dimensional Analysis of the Windmill Softball Pitch. *The Proceedings XXII<sup>nd</sup> International Symposium on Biomechanics in Sports 2004*: 121-124.
1. **Oliver GD**, Wilkerson J, Kwon Y-H. The Kinematics of the Windmill Softball Pitch. *The Scientific Proceedings of the VII<sup>th</sup> International Olympic World Congress on Sport Sciences 2003*:98E *Prince de Merode Award Finalist*.

## Consulting Reports

2. **Oliver GD**, Weimar WH, Washington J, Jagodinsky A. Kinetics of Plyoball Exercises. *Houston Astros Spring Training, Kissimmee, FL. March 10, 2015*.
1. **Oliver GD**, Weimar WH, Washington J, Jagodinsky A. Kinetics of Weighted Cuff Exercises. *Houston Astros Spring Training, Kissimmee, FL. March 10, 2015*.

## Invited Presentations

34. **Oliver GD** (2022). Baseball & Softball Pitching: What is the Perplexity. Cincinnati Children's The Overhead Athlete's Conference. Cincinnati OH.
33. **Oliver GD** (2022). Field Testing. Cincinnati Children's The Overhead Athlete's Conference. Cincinnati OH.
32. **Oliver GD** (2022). The Kinetic Chain in Baseball & Softball Pitching. Cincinnati Children's The Overhead Athlete's Conference. Cincinnati OH.
31. **Oliver GD** (2022). Softball Pitching & Pain Mitigation. Cincinnati Children's The Overhead Athlete's Conference. Cincinnati OH.
30. **Oliver GD** (2022). Softball Pitching & Performance. Cincinnati Children's The Overhead Athlete's Conference. Cincinnati OH.

29. **Oliver GD** (2022). From Theory to Application: Baseball and Softball Research. International Shoulder Group. Delft, Amsterdam, Netherlands. *KeyNote*
28. **Oliver GD** (2022). Kinesiology of Throwers in Baseball & Softball. Seattle Children's Sports Medicine Quarterly Symposium: Shoulder/Elbow.
27. **Oliver GD** (2022). International Society of Biomechanics in Sports Women in Sports Biomechanics: Stress & Motivation. International Society of Biomechanics in Sports Mid-Year Symposium.
26. **Oliver GD** (2021). The Throwing Athlete. Instructional Course Lecture at the American Medical Society for Sports Medicine Annual Meeting.
25. **Oliver GD** (2021). Return to Throwing. ACSM Exchange Lecturer at the American Medical Society for Sports Medicine Annual Meeting.
24. **Oliver GD** (2021). Biomechanical Comparison of Softball and Baseball Pitching. International Society of Biomechanics in Sport Mid-Year Symposium.
23. **Oliver GD** (2021). Hip Range of Motion and Strength in Softball Pitching. International Society of Biomechanics in Sport Mid-Year Symposium.
22. Plummer HA, Bordelon N, Wasserbeger K, Opitz T, Anz AW, **Oliver GD** (2021). Association Between Hip Rotation Range of Motion and Pitching Mechanics in High School Baseball Pitchers. Society of American Baseball Research Annual Conference.
21. **Oliver GD** (2020). From the Lab to the Field: Translating Biomechanics to Injury Prevention in Softball Pitchers. *American Medical Society for Sports Medicine Annual Meeting*.
20. **Oliver GD** (2019). What Do We Know about Softball Pitching and Injury? Alabama Association of the American Physical Therapy Association Fall Meeting, Birmingham, Alabama.
19. **Oliver GD** (2019). What Do We Know about Baseball Pitching and Injury? Alabama Association of the American Physical Therapy Association Fall Meeting, Birmingham, Alabama.
18. **Oliver GD** (2019). How Exercise, Flexibility, and Fatigue Relate to Pitching Mechanics in Baseball and Softball. *Goldberg Mueller Keynote Address on Injury Prevention. 37<sup>th</sup> Annual Injuries in Baseball Course. American Sports Medicine Institute, Birmingham, Alabama.*
17. **Oliver GD** (2019). Identifying the Pathomechanics of Windmill Softball Pitching. *37<sup>th</sup> Annual Injuries in Baseball Course. American Sports Medicine Institute, Birmingham, Alabama.*
16. **Oliver GD** (2018). What Do We Know About Youth Baseball Pitching and Injury? *Keynote Speaker. 8<sup>th</sup> Annual Youth Athlete Conference: Spring into Action. Children's Mercy, Kansas City, Kansas.*
15. **Oliver GD** (2018). What Do We Know About Youth Softball Pitching and Injury? *Keynote Speaker. 8<sup>th</sup> Annual Youth Athlete Conference: Spring into Action. Children's Mercy, Kansas City, Kansas.*
14. **Oliver GD**, Plummer HP (2017). The Overhead Athlete: Fatigue and Injury Prevention. *IOC World Conference Prevention of Injury & Illness. Monaco, Monaco.*
13. **Oliver GD** (2017). Recovery Time for Softball Pitchers Based on Pitch Volumes and Passive Range of Motion. *35<sup>th</sup> Annual Injuries in Baseball Course. American Sports Medicine Institute, Dallas, Texas.*

12. **Oliver GD** (2017). Windmill Pitching Biomechanics and Pain History. *35<sup>th</sup> Annual Injuries in Baseball Course*. American Sports Medicine Institute, Dallas, Texas.
11. **Oliver GD**, Plummer HP, Washington JK, Dugas J, Andrews JA (2017). Pitching Mechanics of Youth Windmill Softball Pitchers. *Pediatric Research in Sports Medicine Annual Conference*. Dallas, Texas.
10. **Oliver GD** (2015). Pelvis and Torso Kinematics and Muscle Activation in Youth Pitchers. *33<sup>rd</sup> Annual Injuries in Baseball Course*. American Sports Medicine Institute, Birmingham, Alabama.
9. **Oliver GD** (2015). Changes in Baseball and Softball Pitching Mechanics when Fatigued. *33<sup>rd</sup> Annual Injuries in Baseball Course*. American Sports Medicine Institute, Birmingham, Alabama.
8. **Oliver GD** (2013). Application of sEMG during Dynamic Overhead Shoulder Movements. *Noraxon EMG*. Kyoto, Japan.
7. **Oliver GD** (2013). The Role of the Kinetic Chain on Shoulder Function in Overhead Throwing. *40<sup>th</sup> Annual Meeting of the Japan Shoulder Society*. Kyoto, Japan.
6. **Oliver GD** (2012). sEMG Evaluation during Overhead Throwing. *Noraxon EMG*. Las Vegas, Nevada. *Keynote Speaker*
5. **Oliver GD** (2012). Dynamic sEMG from Anatomy to Function to Clinical Application Workshop. *Technomex and Noraxon*, Poznan, Poland.
4. **Oliver GD** (2012). The Throwing Shoulder. *6<sup>th</sup> International Poznan Course in Shoulder, Elbow, and Wrist Surgery*. Poznan, Poland.
3. **Oliver GD** (2012). Shoulder Evaluation. *6<sup>th</sup> International Poznan Course in Shoulder, Elbow, and Wrist Surgery*. Poznan, Poland.
2. **Oliver GD** (2012). Quantitative Analysis of Shoulder Function. *6<sup>th</sup> International Poznan Course in Shoulder, Elbow, and Wrist Surgery*. Poznan, Poland. *Keynote Speaker*
1. **Oliver GD** (2011). sEMG Evaluation during Dynamic Movements of the Shoulder. *Noraxon EMG Workshop*. Los Angeles, California. *Keynote Speaker*

## Podium/Colloquium/Slide Presentations

\* indicates a graduate student author under my supervision; \*\*indicates an undergraduate student author under my supervision

68. Yanagita Y\*, Fava A\*, Bordelon N\*, Everhart K\*, Lozowski B\*, Oliver GD (2022). A Comparison of Trunk Energy Flow, Shoulder Distraction Force, and Pitch Speed Between Youth and Collegiate Softball Pitchers. International Shoulder Group. Delft, Amsterdam, Netherlands.
67. Friesen KB\*, Bordelon NM\*, Downs Talmage J\*, Wasserberger KW, **Oliver GD**<sup>†</sup> (2021). High Body Fat Alters Throwing Shoulder Kinetics in Softball Pitchers: Implication for Injury Prevention. IOC Injury World Conference on Prevention of Injury & Illness in Sport 6<sup>th</sup> Addition, Monaco, Monaco.
66. **Oliver GD**, Downs JL\*, Friesen KB\*, Anz AW, Dugas JR, Andrews JR (2020). Effects of a Simulated Game on Pitching Kinematics in Youth Softball Pitchers. *Pediatric Research in Sports Medicine*. Glendale AZ.
65. Cassidy MM\*\*, Bordelon NM\*, Wasserberger KW\*, **Oliver GD** (2020). The Effect of Load Magnitude on Muscle Activation during Unilateral Overhead Dumbbell Carries. Mid-South Biomechanics Conference. Memphis, Tennessee.
64. Brittain AR\*, **Oliver GD** (2020). Temporal Analysis of Tuck Jumps in High School Softball Athletes with and without Pain. Mid-South Biomechanics Conference. Memphis, Tennessee.

63. Brittain AR\*, Friesen KB\*, Wasserberger KW\*, Downs JL\*, Giordano KA\*, Bordelon NM\*, **Oliver GD** (2020). Associations between Single Leg Squat Stability and Overhead Throwing Kinetics in Youth Softball Athletes. Southeast American College of Sports Medicine Annual Meeting. Jacksonville, Florida.
62. Watterson MC\*\*, Giordano KA\*, Wasserberger KW\*, Friesen KB\*, Downs JL\*, **Oliver GD** (2020). Impact of Hip Internal and External Rotation on Shoulder Kinetics during a Baseball Pitch. Southeast American College of Sports Medicine Annual Meeting. Jacksonville, Florida.
61. Bordelon NM\*, Cassidy MM\*\*, Wasserberger KW\*, Downs JL\*, Friesen KB\*, Brittain AR\*, Giordano KA\*, **Oliver GD** (2020). The Effect of Load Magnitude on Muscle Activation during Unilateral Front Racked Dumbbell Carries. Southeast American College of Sports Medicine Annual Meeting. Jacksonville, Florida.
60. Young MW\*\*, Wasserberger KW\*, Down JL\*, Giordano KA\*, Washington JK, **Oliver GD** (2020). Does Pitch Location Affect Hitting Mechanics in Collegiate Softball Players? Southeast American College of Sports Medicine Annual Meeting. Jacksonville, Florida.
59. Wasserberger KW\*, Downs JL\*, **Oliver GD** (2020). Humeral Segment Energy and its Relationship to Clinical Glenohumeral Measures in Youth Baseball Pitchers. Southeast American College of Sports Medicine Annual Meeting. Jacksonville, Florida.
58. Brittain A\*\*, Gascon S\*, **Oliver GD** (2019). Phycological States, Injury, and Functional Movement within Collegiate Students: A Relationship Analysis. *This is Research Auburn University Student Symposium*
57. Phan J\*\*, Friesen K\*, Downs J\*, **Oliver GD** (2019). Effects of Arm Length on Batted Ball Speed and Distance. *This is Research: Auburn University Student Symposium*
56. Downs J\*, Barfield J\*, Verhage T\*\*, Myrick M\*\*, **Oliver GD** (2019). Kinematic Changes in Baseball Pitching During Maturation in Adolescent Baseball Pitchers. Southeast American College of Sports Medicine Annual Meeting. Greenville, South Carolina.
55. Giordano K\*, Barfield J\*, Wasserberger K\*, **Oliver GD** (2019). Kinematic Effects of a Resistance Tubing Training Device Intervention on Youth Baseball and Softball Swings. Southeast American College of Sports Medicine Annual Meeting. Greenville, South Carolina.
54. Wasserberger K\*, Barfield J\*, Giordano K\*, Young M\*\*, **Oliver GD** (2019). Acute Effects of Resistance Tubing Device on Hand Path in Youth Baseball and Softball Hitters. Southeast American College of Sports Medicine Annual Meeting. Greenville, South Carolina.
53. Friesen K\*, Barfield J\*, Brittain A\*\*, **Oliver GD** (2019). A Regression Model Predicting Division I NCAA Softball Pitchers' ERA Based on Upper Extremity Kinematics. Southeast American College of Sports Medicine Annual Meeting. Greenville, South Carolina. *Podium*
52. **Oliver GD**, Gilmer G\*\*, Friesen K\*, Plummer H, Anz A, Dugas J, Andrews J. (2018). Functional Characteristics of Softball Pitchers With and Without Pain. Annual Meeting of the International Shoulder Group. Rochester, Minnesota.
51. Gilmer G\*\*, Roberts M, **Oliver GD**. (2018). The Relationship Between Serum Relaxin Concentrations and Knee Kinematics During A Single Leg Squat. *This is Research: Student Symposium, Auburn University, Auburn, AL.*
50. Gilmer G\*\*, Gascon S\*, **Oliver GD** (2018). Effects of Lower Extremity Instability on Upper Extremity Throwing Kinematics. *National Conference of Undergraduate Research, University of Memphis, Memphis, Tennessee.*
49. Gascon S\*, Gilmer \*G\*, Hanks M\*, Washington J\*, **Oliver GD** (2018). Biomechanical Influence of a Posture Compression Garment on Scapular Positioning. *Southeast American College of Sports Medicine Annual Meeting. Chattanooga, Tennessee.*
48. Gilmer G\*\*, Washington J\*, Plummer H, Dugas J, Andrews J, **Oliver GD** (2017). Effects of Pain History on Pitching Mechanics in Collegiate Pitchers. *Research Week: Student Symposium, Auburn University, Auburn, Alabama.*

47. Gilmer G\*\*, Gascon S\*, **Oliver GD** (2017). Effects of Lower Extremity Instability on Upper Extremity Throwing Kinematics. *National Conference of Undergraduate Research, University of Memphis, Memphis, Tennessee.*
46. Washington J\*, Barfield J\*, Gilmer G\*\*, Gascon S\*, **Oliver, GD** (2018). Differences in Segmental Speeds as a Function of Maturation in Youth Baseball Pitchers. *Pediatric Research in Sports Medicine, Ft. Lauderdale, Florida.*
45. **Oliver GD**, Saper M, Henning L\*, Brambeck A\*, Gilmer G\*\*, Andrews JR (2017). Effects of a Simulated Game on Upper Extremity Kinematics and Muscle Activation Among Various Pitch Types in Youth Baseball Pitchers. *Pediatric Research in Sports Medicine, Dallas, Texas.*
44. Gilmer G\*\*, Gascon S\*, **Oliver GD** (2017). Effects of Lumbopelvic-Hip Complex Instability on Throwing Mechanics Amongst Female Handball Athlete. *American Society of Biomechanics, University of Colorado, Boulder, Colorado.*
43. Weimar W, Washington J\*, Decouex B, Gascon S\*, **Oliver GD** (2017). Does the Fibonacci Sequence Predict the Velocities of Proximal to Distal Sequencing in the Overhand Throw? *American Society of Biomechanics, University of Colorado, Boulder, Colorado.*
42. Gilmer G\*\*, Gascon S\*, **Oliver GD** (2017). Effects of Lower Extremity Instability on Upper Extremity Throwing Kinematics. *National Conference of Undergraduate Research, University of Memphis, Memphis, Tennessee.*
41. Washington J\*, Gascon S\*, **Oliver GD** (2017). Kinematics of Softball Hitting off a Tee Versus Front Toss. *Southeast Chapter of American College of Sport Medicine, Greenville, SC. and Scapula Kinematics Among NCAA Division I Softball Athletes. American College of Sports Medicine, Thematic Poster Presentation, Greenville, South Carolina.*
40. Gascon S\*, Washington J\*, Rhoads J\*, Lohse K, **Oliver GD** (2016). Effects of Gluteal Fatigue on Shoulder and Scapula Kinematics Among NCAA Division I Softball Athletes. *American College of Sports Medicine, Thematic Poster Presentation, Boston, Massachusetts.*
39. **Oliver GD**, Gascon S\*, Gilmer G\*\*, Washington J\*, Plummer H (2016). Implications of Gluteus Medius Fatigue on Overhead Throwing Kinematics. *International Society of Biomechanics - International Shoulder Group, Winterthur, Switzerland.*
38. Gascon S\*, Holt T\*, Henning L\*, **Oliver GD** (2015). Quantitative Analysis of Hip Range of Motion Among Team Handball Athletes. *Southeast Chapter of American College of Sports Medicine, Jacksonville, Florida.*
37. Weimer W, **Oliver GD**, Patel J (2015). Implication of the Kinetic Chain on Overhand Throwing. *Southeast American College of Sports Medicine. Jacksonville, Florida.*
36. Holt T\*, **Oliver GD** (2015). Core Muscle Activity During Rock Climbing Compared to Plank Exercises. *Annual Meeting and World Congress on Exercise is Medicine of the American College of Sports Medicine, San Diego, California.*
35. Gascon S\*, **Oliver GD** (2015). Quantitative Analysis of Hip Range of Motion Among Team Handball Athletes. *Southeast American College of Sports Medicine. Jacksonville, Florida.*
34. Holt T\*, **Oliver GD** (2015). Description of Muscle Activation in Reaching Tasks during Bouldering. *Southeast American College of Sports Medicine. Jacksonville, Florida.*
33. Plummer H\*, **Oliver GD** (2014). Anterior Hip Capsule Strain in a Team Handball Player. *World Federation of Athletic Training and Therapy. Dublin, Ireland.*
32. Henning L\*, **Oliver GD** (2014). Gluteus Medius Relation to Scapula Stabilization in Baseball Pitching. *World Federation of Athletic Training and Therapy. Dublin, Ireland.*

31. Holt T\*, **Oliver GD** (2014). Hip Passive Range of Motion in Youth Baseball Pitchers. *World Federation of Athletic Training and Therapy. Dublin, Ireland.*
30. **Oliver GD**, Weimar W (2014). Hip and Shoulder Range of Motion in Youth Baseball Pitchers. *World Federation of Athletic Training and Therapy. Dublin, Ireland.*
29. **Oliver GD** (2014). Association of Hip ROM and Upper Extremity Kinetics in Youth Baseball Pitchers. *IOC World Conference on Prevention of Injury and Illness in Sport. Monaco, France.*
28. Johnson RH\*, Plummer HA\*, Holt T\*, Henning L\*, **Oliver GD** (2014). Lumbopelvic Kinematics in Pitchers After a Simulated Game. *Southeast American College of Sports Medicine. Greenville, South Carolina.*
27. Holt T\*, Plummer H\*, Henning L\*, **Oliver GD** (2014). Effect of Hip-Drop Angle during Single Leg Squat on Pelvis-Trunk Differentiation in Baseball Pitchers. *Southeast American College of Sports Medicine. Greenville, South Carolina.*
26. Henning L\*, **Oliver GD**, Plummer HA\* (2014). Relationship of Knee Valgus Displacement and Pelvis and Trunk Kinematics During a Lacrosse Shot. *Southeast American College of Sports Medicine. Greenville, South Carolina.*
25. **Oliver GD** (2014). Lumbopelvic-hip Complex Focus for Efficient Youth Movement. *Southern District AAHPERD/KAHPERD Convention. Lexington, Kentucky.*
24. **Oliver GD** (2013). Baseball Catching in Youth: Injury Predictors and Injury Prevention. *60<sup>th</sup> Annual Meeting and 4<sup>th</sup> World Congress on Exercise is Medicine of the American College of Sports Medicine, Indianapolis Indiana.*
23. Weimer W, **Oliver GD**, Patel J (2013). Glenohumeral Joint Motion Involves the Total Body: Just Ask Dartfish. *Southeast American College of Sports Medicine. Greenville, South Carolina.*
22. Salinas R, Keeley DW, **Oliver GD** (2013). Relationship Between Mass and Pitching Kinetics at the Shoulder in Youth Pitchers. *60<sup>th</sup> Annual Meeting and 4<sup>th</sup> World Congress on Exercise is Medicine of the American College of Sports Medicine, Indianapolis Indiana.*
21. Keeley DW, **Oliver GD**, Torry M, Wicke J (2013). Validity of Pitch Velocity and Strike Percentage to Assess Fatigue in Young Baseball Pitchers. *60<sup>th</sup> Annual Meeting and 4<sup>th</sup> World Congress on Exercise is Medicine of the American College of Sports Medicine, Indianapolis Indiana.*
20. Holt TE\*, Plummer HA\*, **Oliver GD** (2013). Effect of Fatigue on Elbow Kinetics in Youth Baseball Players. *60<sup>th</sup> Annual Meeting and 4<sup>th</sup> World Congress on Exercise is Medicine of the American College of Sports Medicine, Indianapolis Indiana.*
19. Plummer HA\*, **Oliver GD** (2013). Effects of Shoulder Fatigue on Scapular Kinematics in Pitchers. *60<sup>th</sup> Annual Meeting and 4<sup>th</sup> World Congress on Exercise is Medicine of the American College of Sports Medicine, Indianapolis Indiana.*
18. Holt T\*, **Oliver GD** (2013). Effects of Fatigue on Elbow Kinetics in Youth Baseball Pitchers. *Graduate Scholars Forum Auburn University.*
17. Plummer HA\*, **Oliver GD**, Holt T\* (2013). Effects of Shoulder Fatigue on Scapular Kinematics in Pitchers. *Southeast American College of Sports Medicine. Greenville, South Carolina.*
16. Taylor H\*, **Oliver GD**, Plummer HA\* (2013). Effect of Fatigue on Elbow and Shoulder Kinematics in Youth Baseball Players. *Southeast American College of Sports Medicine. Greenville, South Carolina.*
15. **Oliver GD** (2013). Bilateral Unicameral Calcaneal Bone Cyst. *Big Sky Sports Medicine and Athletic Training Conference. Big Sky, Montana.*

14. **Oliver GD**, Cohen JA\*, Johnson R\* (2012). Relationship Between Gluteal Activity and Upper Extremity Kinematics and Kinetics in Softball Players. *The IX Conference of the International Shoulder Group, Aberystwyth, Wales UK*.
13. Wozobski E\*, **Oliver GD**, Bonacci J, Summers M (2012). Abdominal Injury-Football. *American College of Sports Medicine, San Francisco, California*.
12. Suskind K\*, **Oliver GD** (2012). Lateral Ankle Injury-Baseball. *American College of Sports Medicine, San Francisco, California*.
11. Hosokawa Y\*, **Oliver GD** (2012). Pubic Stress Fracture- Lacrosse. *American College of Sports Medicine, San Francisco, California*.
10. Keeley DW\*, **Oliver GD**, Dougherty CP, Torry M (2012). Changes in Long Head of the Biceps Tendon Size Following an Extended Pitching Performance. *American College of Sports Medicine, San Francisco, California*.
9. Whale C\*, **Oliver GD**, Tripp PM (2012). Predictive Value of the Jump Task for Injury among Division I Female Soccer Athletes. *ACL Research Retreat VI, Greensboro, North Carolina*.
8. Dwelly PD\*, Plummer HA\*, **Oliver GD** (2011). Quantitative Analysis of Throwing Kinematics of Skeletally Immature and Mature Catchers. *International Society of Biomechanics XXIIIrd Congress, Brussels Belgium*.
7. Plummer HA\*, **Oliver GD**, Dwelly P\* (2011). Quantitative Analysis of Skeletally Immature and Mature Catchers' Muscle Activation during Throwing. *International Society of Biomechanics XXIIIrd Congress, Brussels Belgium*.
6. Dwelly P\*, Abe M\*, **Oliver GD** (2011). Association between Hip and Shoulder Rotational Range of Motion in Collegiate Baseball Pitchers. *World Federation of Athletic Training and Therapy World Congress, Banff, Canada*.
5. Keeley DW\*, **Oliver GD** (2011) Probability of Shoulder Pain in High School Baseball Pitchers. *American College of Sports Medicine Annual Meeting, Denver, Colorado*.
4. **Oliver GD** (2011). Mechanics, Pathomechanics, and Injury Prevention of Youth Baseball and Softball Pitchers. *American College of Sports Medicine, Denver, Colorado*.
3. **Oliver GD** (2010). Proper Mechanics and Injury Prevention of the Baseball Pitch. *Central States American College of Sports Medicine, Lawrence, Kansas*.
2. **Oliver GD** (2010). The Baseball and Windmill Softball Pitch: Pitching Mechanics and Injury Prevention from the Lower Extremity to the Upper Extremity. *National Athletic Trainers' Association Annual Meeting, Philadelphia, Pennsylvania*.
1. **Oliver GD** (2008). Current Issues and Trends Concern the Athletic Hernia: Differential Diagnosis and Surgical Options of the Athletic Hernia. *National Athletic Trainers' Association 59<sup>th</sup> Annual Meeting and Clinical Symposia; St. Louis, Missouri*.

## Thematic Poster Presentations

\* indicates a graduate student author under my supervision; \*\*indicates an undergraduate student author under my supervision

17. Gibson-Young, L., Lee, Y.A., Salahuddin, M. & **Oliver, G** (2021). Needs assessment of current personal protective equipment for healthcare workers. *American Association of Nurse Practitioners*.
16. Brittain A\*\*, Barfield J\*, Friesen K\*, **Oliver GD** (2019). The Role of Single Leg Squats in Predicting Pain Among Youth Softball Players. *Southeast American College of Sports Medicine Annual Meeting. Greenville, South Carolina*.
15. Washington JK, Oliver GD (2019). Electromyography Activation Patterns During the Softball Swing Among Collegiate Softball Players. *Southeast American College of Sports Medicine Annual Meeting. Greenville, South Carolina*.

14. **Oliver GD**, Gilmer GG\*\*, Friesen KB\*, Brittain AR\*\*, Anz AW, Goodlett MD, Dugas JR, Andrews JR. (2018). Pitching Mechanics and Pain History in Collegiate Softball Pitchers. *International Society of Biomechanics in Sport Conference. Auckland, New Zealand.*
13. **Oliver G**, Gilmer G\*\*, Barfield J\*, Brittain A\* (2018). Trunk and Upper Extremity Kinematics of the Offside Forehand Polo Swing in Professional Polo Athletes. *International Society of Biomechanics in Sport Conference. Auckland, New Zealand.*
12. Brittain A\*, Gilmer G\*\*, Barfield J\*, Washington J\*, **Oliver GD** (2018). Shoulder and Elbow Kinetics during Polo Offside Forehand Shots. *Southeast American College of Sports Medicine Annual Meeting. Chattanooga, Tennessee.*
11. Barfield J\*, Washington J\*, Hanks M\*, Gascon S\*, Gilmer G\*\*, Brittain A\*, Williams P\*, Friesen K\*, **Oliver GD** (2018). Baseball Pitcher's Glove Arm Influence on Elbow and Shoulder Kinetics. *Southeast American College of Sports Medicine Annual Meeting. Chattanooga, Tennessee.*
10. Gilmer G\*\*, Washington J\*, **Oliver GD** (2018). Effects of Lumbopelvic-hip Complex Stability on Overhead Throwing Mechanics Amongst Collegiate Softball Athletes. *Southeast American College of Sports Medicine Annual Meeting. Chattanooga, Tennessee.*
9. Hanks MM\*, Washington JK\*, **Oliver GD** (2017). Muscle Activation Patterns in Wheelchair Basketball Athletes with and without Disability: A Pilot Study. *Southeast American College of Sports Medicine, Greenville, South Carolina.*
8. Gascon SS\*, Washington JK\*, Rhoads JA\*, Lohse KR **Oliver GD** (2016). Effects of Gluteal Fatigue on Shoulder and Scapula Kinematics Among NCAA Division I Softball Athletes. *American College of Sports Medicine, Boston, Massachusetts.*
7. Holt T\*, **Oliver GD** (2015). Core Muscle Activity during Rock Climbing Compared to Plank Exercises. *Annual Meeting and World Congress on Exercise is Medicine of the American College of Sports Medicine, San Diego, California.*
6. Henning L\*, **Oliver GD** (2015). Influence of Kinetic Chain on Scapular Muscle Activation. *Southeast American College of Sports Medicine. Jacksonville, Florida.*
5. Johnson R\*, **Oliver GD** (2014). Lumbopelvic Angular Kinematics in Youth Baseball Pitchers After a Simulated Game. *IOC World Conference on Prevention of Injury and Illness in Sport. Monaco, France.*
4. Abu Alim M\*, Fox J, **Oliver GD**, Henning L\*, Plummer H\* (2014). *Southeast American College of Sports Medicine. Greenville, South Carolina.*
3. Smith C\*\*, Holt T\*, Plummer H\*, Henning L\*, **Oliver GD** (2014). A Description of Upper Extremity Segmental Speeds in Youth Lacrosse Players: Overhead Shot. *Southeast American College of Sports Medicine. Greenville, South Carolina.*
2. Johnson RJ\*, Henning L\*, **Oliver GD**, Weimar W (2013). Effects of Fatigue on Kinematics of Hip and Pelvis in Softball Players. *60<sup>th</sup> Annual Meeting and 4<sup>th</sup> World Congress on Exercise is Medicine of the American College of Sports Medicine, Indianapolis Indiana.*
1. Patel J, Jagodinsky A, **Oliver GD**, Weimar W (2013). Force Test of Internal Rotation during Various Isometric Transverse Pelvic Girdle Rotations. *60<sup>th</sup> Annual Meeting and 4<sup>th</sup> World Congress on Exercise is Medicine of the American College of Sports Medicine, Indianapolis Indiana.*

## Poster Presentations

\*indicates a graduate student author under my supervision; \*\*indicates an undergraduate student author under my supervision

280. Friesen K, Lang Schemenaurer A, Oliver GD (2022). Does Body Fat Percentage Influence Movement Asymmetry in Softball Pitchers. *North American Congress on Biomechanics, Ottawa, Ontario.*

279. Cassidy M\*, Giordano K, Oliver GD (2022). Comparison of Concentric and Eccentric Contractions in the Frontal and Scapular Plane for Rotational Strength Measurements. National Strength and Conditioning Association National Conference, New Orleans, Louisiana.
278. Everhart KM\*, Bordelon NM\*, Gober P\*\*, Oliver GD (2022). Relationship Between Active and Passive Hip Range of Motion and Collegiate Baseball Hitting Performance: A Pilot Study. National Strength and Conditioning Association National Conference, New Orleans, Louisiana.
277. Bordelon NM\*, Wasserberger K\*. Everhart KM\*, Oliver GD. Hip Rotational Isometric Strength but Not Lower Body Power is Related to Softball Hitting Performance. National Strength and Conditioning Association National Conference, New Orleans, Louisiana.
276. Novellino C\*\*, Fava A\*, Bordelon N\*, Nguyen A\*\*, Everhart\*, **Oliver GD** (2002). Comparing Kinetics of Pitch Type Between Youth Baseball Pitchers with and without Upper Extremity Pain. Southeast American College of Sports Medicine Annual Meeting, Greensboro South Carolina.
275. Gober P\*\*, Bordelon N, Everhart K, **Oliver GD** (2022). Comparing Training Volumes Between Softball Pitchers with and without Upper Extremity Pain. Southeast American College of Sports Medicine Annual Meeting, Greensboro South Carolina.
274. Bordelon N\*, Gober P\*\*, Downs Talmage J, Wasserberger K\*, Fava A\*, Everhart K\*, Dugas JR, **Oliver GD** (2022). Incidence of Pain in Youth Softball Pitchers and Positional Players. Southeast American College of Sports Medicine Annual Meeting, Greensboro South Carolina.
273. McCullough MB\*\*, Bordelon N\*, Friesen KB, Fava A\*, Everhart K\*, **Oliver GD** (2022). Pelvis and Trunk Kinematic Differences Exist Between Baseball Tee and Front Toss Hitting. Southeast American College of Sports Medicine Annual Meeting, Greensboro South Carolina.
272. Fava A.\*, Downs Talmage J, **Oliver GD** (2022). Leg Stiffness and Pitch Types in High School Baseball Pitchers. Southeast American College of Sports Medicine Annual Meeting, Greensboro South Carolina.
271. **Oliver GD**, Giordano KA (2021). The Role of Spinal Manipulation as a Moderator of Cervical Spine Position on Shoulder Rotation Strength. International Journal of Sports Physical Therapy Orthopaedic Summit. Las Vegas NV
270. Giordano KA, **Oliver GD** (2021). The Effects of Cervical Spine Position on Isokinetic Shoulder Rotation Strength. International Journal of Sports Physical Therapy Orthopaedic Summit. Las Vegas NV
269. Bordelon NM\*, Wasserberger K\*, Giordano K\*, Cassidy M\*\*, Mendel J\*\*, **Oliver GD** (2021). Muscle Activation and Peak Torque Analysis During Commonly Used Shoulder Rotation Strength Testing Positions. National Strength and Conditioning Association National Conference. Orlando FL
268. Bordelon NM\*, Wasserberger KW\*, Downs JL\*, Friesen KB\*, Washington JK, **Oliver GD** (2020). The Relationship between Humeral Segment Energy and Hand Angular Velocity in Softball Hitting. American Society of Biomechanics Annual Meeting.
267. Giordano KA\*, Chaput M, Anz AW, Andrews JR, **Oliver GD** (2020). Knee Kinetics in Baseball Hitting and Their Implication for Return to Play After Anterior Cruciate Ligament Reconstruction. American Society of Biomechanics Annual Meeting.
266. Barfield JW, Bordelon NM\*, Wasserberger KW\*, **Oliver GD** (2020). Bilateral Differences in Lumbopelvic-Hip Complex Kinematics during the Closed Kinetic Chain Upper Extremity Stability Test. American Society of Biomechanics Annual Meeting.
265. Wasserberger KW\*, Giordano KA\*, Downs JL\*, **Oliver GD** (2020). Humeral Energy Transfer and Glenohumeral Rotation Strength in Adolescent Baseball Pitchers. American Society of Biomechanics Annual Meeting.

264. Downs JL\*, Bordelon NM\*, Friesen KB\*, **Oliver GD** (2020). Hip Range of Motion and Isometric Strength Differences Between High and Low Batted Ball Velocity Hitters. American Society of Biomechanics Annual Meeting.
263. Downs JL\*, Friesen KB\*, Wasserberger KW\*, Giordano KA\*, Brittain AR\*, Bordelon NM\*, **Oliver GD** (2020). Association Between Pitching a Simulated Game and Pitching Performance in Youth Softball Pitchers. Southeast American College of Sports Medicine Annual Meeting. Jacksonville, Florida.
262. Kirkham CH\*\*, Brittain AR\*, Friesen KB\*, Downs JL\*, **Oliver GD** (2020). Association Between Long Head Bicep Tendon and Shoulder Range of Motion and Isometric Strength. Southeast American College of Sports Medicine Annual Meeting. Jacksonville, Florida.
261. Friesen KB\*, Downs JL\*, Wasserberger KW\*, Giordano KA\*, Bordelon NM\*, Brittain AR\*, **Oliver GD** (2020). Body Mass Index Affects Kinematic and Kinetic Parameters during the Windmill Softball Pitch. Southeast American College of Sports Medicine Annual Meeting. Jacksonville, Florida.
260. Gilmer G\*\*, Roberts M, **Oliver GD** (2020). Evaluation of Serum Relaxin Concentrations and Knee Valgus After Anterior Cruciate Ligament Reconstruction. Pediatric Research in Sports Medicine. Glendale AZ.
259. Brittain A\*\*, **Oliver GD** (2019). A Quantitative Analysis of Sport Specialization Among Youth Baseball and Softball Athletes. *National Strength and Conditioning Association National Meeting*. Washington D.C.
258. Williams P\*, Barfield J\*, **Oliver GD** (2019). Relationship of Lumbopelvic-hip Stability on Ball Speed in Female Windmill Softball Pitchers. *American College of Sports Medicine 66<sup>th</sup> Annual Meeting*. Orlando, Florida
257. Wasserberger K\*, Downs J\*, Giordano K\*, Brittain A\*\*, **Oliver GD** (2019). Associations Between Glenohumeral Rotation Strength and Select Kinetic Parameters During the Baseball Pitch in Adolescent Baseball Pitchers. *International Society of Biomechanics in Sport*. Oxford, Ohio.
256. Wasserberger K\*, Barfield J\*, **Oliver GD** (2019). The Association between Single-Leg Squat Performance and Stride Leg Kinematics in Adolescent Baseball Pitchers. *International Society of Biomechanics Annual Meeting*. Calgary Canada.
255. Friesen KB\*, Barfield JW\*, Giordano KA\* **Oliver GD** (2019). Kinematic Predictors of Upper Extremity Pain in National Collegiate Athletic Association Division I Softball Pitchers. *International Society of Biomechanics Annual Meeting*. Calgary Canada.
254. Barfield J\*, **Oliver GD** (2019). Tuck Jump Assessment as an Indicator of Previous Upper Extremity Injury. *6<sup>th</sup> Annual Meeting of Pediatric Research in Sports Medicine*, Atlanta Georgia.
153. Hoesley A\*\*, Barfield J\*, **Oliver GD** (2019). Relationship of Glove Arm Elbow Flexion with Pitch Velocity in Youth Baseball Pitchers. *This is Research: Auburn University Student Symposium*.
152. Blackstock S\*\*, Kirkham C\*\*, Brittain A\*\*, Gascon S\*, **Oliver GD** (2019) Determining Kinetic Chain Efficiency Among Female Handball Athletes. *This is Research: Student Symposium, Auburn, AL*.
151. Watterson M\*\*, Barfield J\*, Harbinger J\*\*, Moultrie S\*\*, George J\*\*, **Oliver GD** (2019). Relationship Among Stability Grouping Between Three Different Stability Test. *Southeast American College of Sports Medicine Annual Meeting*. Greenville, South Carolina.
150. Williams P\*, Barfield J\*, Downs J\*, Wasserberger K\*, Friesen K\*, Brittain A\*\*, **Oliver GD** (2019). Relationship of Lumbopelvic-Hip Stability on Ball Speed in Female Windmill Softball Players. *Southeast American College of Sports Medicine Annual Meeting*. Greenville, South Carolina.

149. Gascon S\*, Brittain A\*\*, Washington J, Blackstock S\*\*, **Oliver GD** (2019). Influence of Posture-Cueing Garments on Scapular Positioning During a Softball Hitting Task. *Southeast American College of Sports Medicine Annual Meeting. Greenville, South Carolina.*
148. Barfield J\*, **Oliver GD** (2019). An Active Glove Arm is Associated with Decreased Kinetics in the Windmill Softball Pitch. *Southeast American College of Sports Medicine Annual Meeting. Greenville, South Carolina.*
147. Gilmer G\*\*, Washington J\*, Dugas J, Andrews J, **Oliver GD**. (2018). The influences of lumbopelvic-hip complex instability in softball throwing mechanics. *World Congress of Biomechanics. Dublin, Ireland.*
146. Gilmer G\*\*, **Oliver GD**. (2018). The Risk for Anterior Cruciate Ligament Injury is Higher When Serum Relaxin Concentrations Peak. *Southeastern Medical Scientist Symposium. Vanderbilt University. Nashville, TN.*
145. Friesen K\*, Wasserberger K\*, Downs J\*, Washington J\*, Williams T\*\*, **Oliver GD** (2018). A Comparison of Total Body Resistance Exercises on Gluteus Medius Activation. *American Society of Biomechanics Annual Meeting. Rochester, Minnesota.*
144. Washington J\*, Barfield J\*, Gilmer G\*\*, Gascon S\*, **Oliver GD** (2018). Differences in Segmental Speeds as a Function of Maturation in Youth Baseball Pitchers. *Pediatric Research in Sports Medicine, Annual Meeting. Ft. Lauderdale, Florida*
143. Wasserberger K\*, Downs J\*, Williams T\*\*, **Oliver GD** (2018). The Effects of Resistance Bands on Trapezius Activity During Full-Body Exercises. *American Society of Biomechanics Annual Meeting. Rochester, Minnesota.*
142. Peart A\*, Washington J\*, Wadsworth D, **Oliver GD** (2018). Body Composition Assessment in Female NCAA Division I Softball Players as a Function of Playing Position Across a Multiyear Timeframe. *Southeast American College of Sports Medicine Annual Meeting. Chattanooga, Tennessee.*
141. Williams P\*, Washington J\*, Hanks M\*, Barfield J\*, Gilmer G\*\*, Gascon S\*, Friesen K\*, **Oliver GD** (2018). Examination of Proximal and Distal Muscle Activation: An EMG Study. *Southeast American College of Sports Medicine Annual Meeting. Chattanooga, Tennessee.*
140. Hanks M\*, Brewer L, Gilmer G\*\*, Washington J\*, Barfield J\*, Friesen K\*, **Oliver GD** (2018). The Influence of Self-Selected Protective Equipment on Kinematics in Youth Lacrosse Players. *Southeast American College of Sports Medicine Annual Meeting. Chattanooga, Tennessee.*
139. Downs J\*, Friesen K\*, Washington J\*, Gilmer G\*\*, **Oliver GD** (2018). Correlation of Pelvis Kinematics to Ground Reaction Force in Softball Hitting: A Pilot Study. *Southeast American College of Sports Medicine Annual Meeting. Chattanooga, Tennessee.*
138. Barfield J, **Oliver G** (2018). Pitcher's Nightmare Swing Trainer's Effect on Baseball Swing Kinematics. This is Research: Student Symposium, Auburn, AL.
137. Gilmer G\*\*, Washington J\*, **Oliver GD** (2017). How Does Lumbopelvic-hip Complex Instability Affect Segmental Sequencing Amongst Collegiate Softball Athletes? *Southeastern Medical Scientist Symposium, Emory University. Atlanta, Georgia.*
136. Gilmer G\*\*, Gascon S\*, Washington J\*, Aucoin G\*, Cummins I\*\*, Sulser T\*\*, **Oliver GD** (2017). Influence of Postural Compression Garment on Scapular Muscle Activation. *Research Week: Student Symposium, Auburn University, Auburn, Alabama.*
135. Clardy K\*\*, Gascon S\*, Gilmer G\*\*, Washington J\*, **Oliver GD** (2017). Kinematics of Youth Baseball Pitching and Football Passing. *Research Week: Student Symposium, Auburn University, Auburn, Alabama.*
134. Gilmer G\*\*, Gascon S\*, **Oliver GD** (2017). Effects of Lumbopelvic-hip Complex Instability on Throwing Mechanics Amongst Female Handball Athletes. *American Society of Biomechanics, Boulder, Colorado.*

133. Gilmer G\*\*, Gascon S\*, **Oliver GD** (2017). The Biomechanical Effects of Lower Extremity Instability on Segmental Sequencing Amongst Female Handball Athletes. *American Physician Scientist Association, Chicago, Illinois.*
132. Gilmer G\*\*, Gascon S\*, **Oliver GD** (2017). Segmental Sequencing Among Female Handball Athletes. Southeast Chapter of *American College of Sport Medicine, Greenville, South Carolina.*
131. Gilmer G\*\*, Gascon S\*, Lohse K, **Oliver GD** (2016). Relationship Between Knee Valgus and Shoulder Kinematics Amongst Female Handball Athletes. *Southeastern Medical Scientist Symposium, UAB, Birmingham, Alabama.*
130. Brambeck A\*, **Oliver GD**, Gascon S\*, Gilmer G\*\*, Flesig G, Dugas J (2017). Kinematics of Softball Pitching: Healthy versus those with Low Back Pain. *Southeast Chapter of American College of Sport Medicine, Greenville, South Carolina.*
129. Gascon S\*, Gilmer G\*\*, **Oliver GD** (2017). Segmental Sequencing Among Female Handball Athletes. *Southeast American College of Sports Medicine, Greenville, South Carolina.*
128. Barfield J\*, Gascon S\*, Gilmer G\*\*, **Oliver GD** (2017). Segmental Sequencing Among Youth Baseball Pitchers: A Longitudinal Pilot Study. *Southeast Chapter of American College of Sport Medicine, Greenville, South Carolina.*
127. Henning L\*, Washington J\*, Hanks M\*, Gilmer G\*\*, Brambeck A\*, Gascon S\*, Barfield J\*, Holt T\*, **Oliver GD** (2017). Single-Leg Squat Trunk Kinematics in Individuals with and without Scapular Dyskinesis. *Southeast Chapter of American College of Sport Medicine, Greenville, South Carolina.*
126. Clardy K\*\*, Gascon S\*, Gilmer G\*\*, **Oliver GD** (2017). Kinematics of Youth Baseball Pitching and Football Passing. *Southeast Chapter of American College of Sport Medicine, Greenville, South Carolina.*
125. Washington JK\*, Gascon SS\*, **Oliver GD** (2017). Kinematics of Softball Hitting: Off a Tee Versus Front Toss. *American College of Sports Medicine, Denver, Colorado.*
124. Washington JK\*, Gascon SS\*, **Oliver GD** (2017). Kinematics of Softball Hitting: Off of a Tee Versus Front Toss. *Southeast American College Sports Medicine, Greenville, South Carolina.*
123. Gilmer G\*\*, Gascon S\*, Washington J\*, Aucoin G\*, Cummins I\*\*, Sulser T\*\*, **Oliver GD** (2017). Influence of Postural Compression Garment on Scapular Muscle Activation. *Research Week: Auburn University Student Symposium, Auburn, Alabama.*
122. Brambeck AL\*, Washington JK\*, **Oliver GD** (2016). Differences in Kinematic Sequencing of Overhand Throwing Between Youth Pitchers, Catchers, and Position Players. *American College of Sports Medicine, Boston, Massachusetts.*
121. Washington JK\*, Gascon S\*, Plummer HA, **Oliver GD** (2016). Electromyographic Comparison of Gluteus Medius and Trapezius Activity Between Kinetic Chain and Resistance Band Exercises. *American Society of Biomechanics, Raleigh, North Carolina.*
120. Gascon S\*, Rhoads JA\*, Lohse KR, **Oliver GD** (2016). Effects of Gluteal Fatigue on Pelvic and Torso Control Among NCAA Division I Softball Athletes. *Southeast American College of Sports Medicine, Greenville, South Carolina.*
119. Gascon S\*, Gilmer G\*\*, **Oliver GD** (2016). Segmental Sequencing Among Female Handball Athletes. *Research Week: Faculty Symposium, Auburn University, Auburn, Alabama.*
118. Gascon S\*, Gilmer G\*\*, **Oliver GD** (2016). Effects of Fatigue on Throwing Kinematics Among NCAA Division I Softball Athletes. *Research Week: Student Symposium, Auburn University, Auburn, Alabama.*
117. Washington JK\*, Clardy K\*\*, Plummer HA, **Oliver GD** (2016). Kinematics of the Fastball and Change-Up in Youth Pitchers. *Southeast American College of Sports Medicine, Greenville, South Carolina.*

116. Gilmer G\*\*, Gascon S\*, Lohse K, **Oliver GD** (2016). Relationship Between Knee Valgus and Shoulder Kinematics Amongst Female Handball Athletes. *Southeastern Medical Scientist Symposium, UAB, Birmingham, Alabama.*
115. Abu-Alim M\*, **Oliver GD** (2015). Correlations Between Pitchers' Stride Length and Y Balance Scores. *Southeastern American College of Sports Medicine. Jacksonville, Florida.*
114. Plummer H\*, Haynie L\*, Henning L\*, Abu-Alim M\*, **Oliver GD** (2015). Selected Kinetics of the Set Shot and Jump Shot in Team Handball. *Southeastern American College of Sports Medicine. Jacksonville, Florida.*
113. Washington JK\*, Plummer HA\*, **Oliver GD** (2015). Kinetics of Youth Baseball Pitchers and Catchers. *American Society of Biomechanics, Columbus, Ohio.*
112. Clardy K\*\*, Washington JK\*, Haynie EJ\*\*, Plummer HA\*, Henning L\*, **Oliver GD** (2015). Gluteal Activity during the Overhead Lacrosse Shot. *Southeast American College of Sports Medicine, Jacksonville, Florida.*
111. Washington JK\*, Gascon SS\*, **Oliver GD** (2015). Kinetics of Youth Baseball Pitchers and Catchers. *Research Week: Student Symposium, Auburn University, Auburn, Alabama.*
110. Plummer H\*, **Oliver GD** (2014). Pelvic and Trunk Differentiation in Softball Pitchers. *7<sup>th</sup> World Congress of Biomechanics, Boston Massachusetts.*
109. Holt T\*, **Oliver GD**, Smith C\*\*, Buchanan T\*\* (2014). Pelvis-trunk Separation in Youth Baseball Pitchers. *7<sup>th</sup> World Congress of Biomechanics, Boston Massachusetts.*
108. Holt T\*, Plummer H\*, Henning L\*, **Oliver GD** (2014). Torso Separation as Youth Baseball Pitchers Approach Pitch Count Limits. *61<sup>st</sup> Annual Meeting and 5<sup>th</sup> World Congress on Exercise is Medicine of the American College of Sports Medicine, Orlando Florida.*
107. Smith C\*\*, Holt T\*, Plummer H\*, Henning L\*, **Oliver GD** (2014). A Description of Upper Extremity Segmental Speeds in Youth Lacrosse Players. *61<sup>st</sup> Annual Meeting and 5<sup>th</sup> World Congress on Exercise is Medicine of the American College of Sports Medicine, Orlando Florida.*
106. Henning L\*, Holt T\*, Plummer H\*, **Oliver GD** (2014). Relationship Between Knee Kinematics and Elbow Kinetics during a Lacrosse Shot. *61<sup>st</sup> Annual Meeting and 5<sup>th</sup> World Congress on Exercise is Medicine of the American College of Sports Medicine, Orlando Florida.*
105. Johnson R\*, **Oliver GD** (2014). Lumbopelvic Angular Kinematics in Youth Baseball Pitchers After a Simulated Game: A Comparison of Evaluation Methods. *61<sup>st</sup> Annual Meeting and 5<sup>th</sup> World Congress on Exercise is Medicine of the American College of Sports Medicine, Orlando Florida.*
104. Plummer H\*, **Oliver GD**, Henning L\*, Holt T\* (2014). Selected Kinetics during the Curveball and Drop Ball Pitches in Softball Pitchers. *61<sup>st</sup> Annual Meeting and 5<sup>th</sup> World Congress on Exercise is Medicine of the American College of Sports Medicine, Orlando Florida.*
103. **Oliver GD**, Plummer H\*, Haynie L\*, Henning L\* (2014). Relationship of Single Leg Squat Kinematics on Upper Extremity Kinetics in Baseball Pitchers. *61<sup>st</sup> Annual Meeting and 5<sup>th</sup> World Congress on Exercise is Medicine of the American College of Sports Medicine, Orlando Florida.*
102. Kliszczewicz B, Quindry J, Blessing D, **Oliver GD**, Esco M, Taylor K (2014). The Oxidative Stress Response of Cross Fit Versus Traditional Treadmill Running. *Southeast American College of Sports Medicine. Greenville, South Carolina.*
101. Plummer HA\*, **Oliver GD**, Henning LE\*, Haynie EJ\*\* (2014). Relationship of Single Leg Squat Kinematics and Humeral Elevation in Pitchers. *Southeast American College of Sports Medicine. Greenville, South Carolina.*

100. Plummer HA\*, **Oliver GD** (2013). Influence of humeral elevation on shoulder kinetics in catchers throwing from their knees. *XXIV Congress of the International Society of Biomechanics, Natal Brazil.*
99. **Oliver GD** (2013). Relationship Between Ground Reaction Forces, Pelvic Control and Upper Extremity Kinetics during throwing: Pre-and Post-Fatigue. *XXIV Congress of the International Society of Biomechanics, Natal Brazil.*
98. Plummer HA\*, **Oliver GD** (2013). Influence of Shoulder Rotation on Shoulder Kinetics in Catchers Throwing from the Knees. *Annual Meeting of the American Society of Biomechanics, Omaha Nebraska.*
97. Patel J, Jagodinsky A, **Oliver GD**, Weimar W (2013). Role of Pelvic Girdle Position in Force Development and Electromyography in the Latissimus Dorsi. *Annual Meeting of the American Society of Biomechanics, Omaha Nebraska.*
96. **Oliver GD**, Stone AJ, Weimar WH (2013). Effects of Shoulder Fatigue on Ground Reaction Forces in Softball Players. *60<sup>th</sup> Annual Meeting and 4<sup>th</sup> World Congress on Exercise is Medicine of the American College of Sports Medicine, Indianapolis Indiana.*
95. Fox JS, Rehm JM, Romer BH, Patel JH, **Oliver GD**, Weimar WH (2013). A Comparison of Impulse from Four Loading Configurations. *60<sup>th</sup> Annual Meeting and 4<sup>th</sup> World Congress on Exercise is Medicine of the American College of Sports Medicine, Indianapolis Indiana.*
94. Cohen JA\*, Sherrill J\*\*, **Oliver GD** (2013). Effects of Fatigue on Pelvic and Scapula Stabilizers in Overhead Throwing. *60<sup>th</sup> Annual Meeting and 4<sup>th</sup> World Congress on Exercise is Medicine of the American College of Sports Medicine, Indianapolis Indiana.*
93. Hosokawa Y\*, **Oliver GD**, Dittmore S, DeWitt T (2013). Availability of Designated Health Care Providers and Emergency Action Plans in Arkansas High School Athletics. *National Athletic Trainers' Association Annual Meeting and Clinical Symposium, Las Vegas, Nevada.*
92. **Oliver GD**, Dougherty E\*\* (2013). Landing Mechanics in Female Basketball and Soccer Athletes. *60<sup>th</sup> Annual Meeting and 4<sup>th</sup> World Congress on Exercise is Medicine of the American College of Sports Medicine, Indianapolis Indiana.*
89. Taylor S\*\*, **Oliver GD**, Plummer HA\*, Holt T\* (2013). A Description of Segmental Speeds in the Upper Extremity in Youth Pitching: Fastball and Curveball. *Southeast American College of Sports Medicine. Greenville, South Carolina.*
88. Parker J\*, Cohen JA\*, **Oliver GD** (2012). Quantitative Analysis of the Slide Step Delivery in Adolescent Baseball Pitchers. *The XXVIII International Conference on Biomechanics in Sports, Melbourne Australia.*
87. **Oliver GD**, Johnson R\* (2012). Quantitative Analysis of Throwing Mechanics in Softball Positional Players. *The XXX International Conference on Biomechanics in Sports Conference, Melbourne Australia.*
86. Sola M\*, **Oliver GD**, Huddleston S\* (2012). Quantitative Examination of Pelvic and Scapular Stabilizing Muscle Activation during Shoulder Rehabilitation. *American College of Sports Medicine, San Francisco, California.*
85. Plummer HA\*, **Oliver GD**, Romasco A\*, Holt T\* (2012). Difference in Muscle Activations Following Drop Landing Biofeedback Intervention. *American College of Sports Medicine, San Francisco, California.*
84. Romasco A\*\*, MacDonald K\*\*, Cohen JA\*\*, **Oliver GD** (2012). Hip Abduction Strength and its Relationship with Landing Mechanics. *American College of Sports Medicine, San Francisco, California.*
83. **Oliver GD**, Plummer HA\*, Dwelly P\* (2011). Relationship Between Torso Rotation and Gluteal Muscle Group Activation in Baseball and Softball Catchers: Skeletally Immature and Mature. *American Society of Biomechanics Annual Conference, Long Beach, California.*

82. Plummer HA\*, **Oliver GD** (2011). Quantitative Description of Throwing from the Knees in Baseball and Softball Catchers. *American Society of Biomechanics Annual Conference, Long Beach, California.*
81. **Oliver GD**, Plummer HA\*, Dwelly P\* (2011). Relationship between Torso Rotation and Gluteal Muscle Group Activation in Baseball and Softball Catchers. *International Society of Biomechanics XXIIIrd Congress, Brussels Belgium.*
80. **Oliver GD** (2011). Calcaneal Bone Cyst in Active Adult Female: A Case Study. *World Federation of Athletic Training and Therapy World Congress, Banff, Canada.*
79. Roling K\*, **Oliver GD**, Dittmore S, Moiseichik M (2011). Gluteus Medius to Adductor Muscle Activation Ratio: Effects on Dynamic Knee Valgus. *World Federation of Athletic Training and Therapy World Congress, Banff, Canada.*
78. Bonacci J, Kurani A\*, **Oliver GD** (2011). An Investigation in Comparing Stable and Unstable Rescuer Positions of Spine Boarding Extraction Protocols of Undocumented Injury Scenarios in a Gymnastics Pit. *World Federation of Athletic Training and Therapy World Congress, Banff, Canada.*
77. Pettaway A\*, Dwelly P\*, Romasco A\*, Bonacci J, **Oliver GD** (2011). Effects of the Combination of Ultrasound and Transcutaneous Electrical Muscle Stimulation on Hamstring Range of Motion. *World Federation of Athletic Training and Therapy World Congress, Banff, Canada.*
76. Black D\*\*, Stone AJ\*, Evanson K\*, **Oliver GD** (2011). Effects of Different Foot Conditions on sEMG of the Lower Leg during a Back Squat. *American College of Sports Medicine Annual Meeting, Denver, Colorado.*
75. Plummer H\*, **Oliver GD** (2011). Kinematics of Baseball and Softball Catchers Throwing Down to Second Base. *American College of Sports Medicine Annual Meeting, Denver, Colorado.*
74. William AJ, Adams-Blair HR, **Oliver GD** (2011). When in Doubt Tell the Truth: Lying in Sports. *American Alliance of Health, Physical Education, Recreation, and Dance Annual Meeting, San Diego, California.*
73. Plummer H\*, **Oliver GD** (2011). Quantitative Description of Muscle Activation in Catchers. *South Central American Society of Biomechanics Annual Meeting, Dallas, Texas.*
72. Adams-Blair HR, **Oliver GD** (2011). When in Doubt Tell the Truth: Lying in Sports. *American Alliance of Health, Physical Education, Recreation, and Dance Annual Meeting, San Diego, California.*
71. Adams-Blair HR, **Oliver GD** (2011). Physical Activity Integrating into the Classroom: Movement in the Regular Classroom. *International Health and Wellness Conference, San Francisco, California.*
70. Keeley DW\*, **Oliver GD**, Hackett T, Torry M (2010). A Model Predicting Anterior Shear Stress in the Shoulder during the Slide Step Delivery in High School Baseball Pitchers. *American Society of Biomechanics Annual Conference in Providence, Rhode Island.*
69. Plummer H\*, Keeley DW\*, **Oliver GD** (2010). Windmill Pitching Kinetics: Injury Implications for High School Pitchers. *American Society of Biomechanics Annual Conference in Providence, Rhode Island.*
68. **Oliver GD**, Stone AJ\*, Plummer H\*, Keeley DW\* (2010). Quantitative Examination of Core Muscle Activation during Isometric Exercises. *American Society of Biomechanics Annual Conference in Providence, Rhode Island.*
67. **Oliver GD**, Booker JM\*\*, Stone AJ\*, Plummer HP\* (2010). Drop Landings in Military Boots. *American Society of Biomechanics Annual Conference in Providence, Rhode Island.*
66. **Oliver GD**, Aldrich T\*, Moiseichik M (2010). Quantitative Analysis of sEMG of the Upper Extremity Musculature while Cutting Common Paddle Sport Entanglement Materials Using Two Different Tools. *American Society of Biomechanics Annual Conference in Providence, Rhode Island.*

65. Keeley DW\*, Barber K\*\*, **Oliver GD** (2010). Kinematic Comparison of Pelvis Kinematics during the Baseball Pitch: Fatigued and Non-Fatigued Conditions. *The XXVIII International Conference on Biomechanics in Sports Conference. Marquette, Michigan.*
64. **Oliver GD**, Abe M\*, Keeley DW\* (2010). Quantitative Analysis of Core Musculature during Two Types of Baseball Pitches: Fastball and Change-up. *The XXVIII International Conference on Biomechanics in Sports Conference. Marquette, Michigan. New Investigator Award Finalist*
63. **Oliver GD**, Plummer H\* (2010). Descriptive Analysis of sEMG during the Windmill Softball Pitch: Pre-fatigue and Fatigued. *The XXVIII International Conference on Biomechanics in Sports Conference. Marquette, Michigan.*
62. **Oliver GD**, Plummer H\* (2010). Ground Reaction Forces, Kinematics, and Muscle Activations during the Softball Pitch. *The XXVIII International Conference on Biomechanics in Sports Conference. Marquette, Michigan.*
61. **Oliver GD**, Plummer H\* (2010). Quantifying sEMG in Pre-fatigue and Fatigue States during the Fastball Baseball Pitch. *The XXVIII International Conference on Biomechanics in Sports Conference. Marquette, Michigan.*
60. O'Brein JE\*, Dwelley P\*, **Oliver GD** (2010). Lack of Relationship Between Shoulder and Hip Range of Motion Changes in Division-I Baseball Pitchers. *National Athletic Trainers' Association Annual Meeting, Philadelphia, Pennsylvania.*
59. Keeley DW\*, **Oliver GD** (2010). Kinematic Comparison of Two Delivery Styles in High School Baseball Pitchers. *American College of Sports Medicine Annual Meeting, Baltimore, Massachusetts.*
58. Plummer H\*, **Oliver GD**, Keeley D\* (2010). Comparison of Shoulder Kinetics Across Two Delivery Styles in High School Baseball Pitchers. *American College of Sports Medicine Annual Meeting, Baltimore, Massachusetts.*
57. Aldrich T\*, Moiseichik M, **Oliver GD** (2010). Paddlesport Entanglement Safety Tools: Effectiveness and Efficiency in Knives and Shears. *National Conference on Outdoor Leadership, Estes Park, Colorado.*
56. Plummer H\*, **Oliver GD**, Keeley D\* (2010). Quantitative sEMG Description of Upper Extremity Muscle Activation during Baseball Pitching: Pre Fatigue & Fatigue. *South Central American Society of Biomechanics, Texas Woman's University, Denton, Texas.*
55. Keeley D\*, **Oliver GD** (2010). Model Predicting Shoulder Compressive Force during Baseball Pitching. *South Central American Society of Biomechanics, Texas Woman's University, Denton, Texas.*
54. Bishop KA\*, **Oliver GD**, Keeley DW \* (2009). The Effects of a Basketball Season on the Kinetics of Functional Movement in NCAA Division I Basketball Athletes. *4th Annual RAZOR Fitness Sports Medicine Symposium, Fayetteville, Arkansas.*
53. Rabe SB\*, **Oliver GD** (2009). Clavicle Fracture in a Collegiate Football Player: A Case Report of Rapid Return to Play. *4th Annual RAZOR Fitness Sports Medicine Symposium, Fayetteville, Arkansas.*
52. Hall J\*, **Oliver GD**, Stone AJ\* (2009). The Effects of Different Shoulder Stretching Protocols on Range of Motion. *4th Annual RAZOR Fitness Sports Medicine Symposium, Fayetteville, Arkansas.*
51. Plummer HA\*, **Oliver GD**, Keeley DW\* (2009). Kinematic Comparison of Pre-pubescent & Post-pubescent Softball Catchers. *4th Annual RAZOR Fitness Sports Medicine Symposium, Fayetteville, Arkansas.*
50. Booker JM\*\*, **Oliver GD**, Stone AJ\*, Keeley DW\* (2009). A Kinematic and EMG Analysis of Drop Landing in Military Boots. *4th Annual RAZOR Fitness Sports Medicine Symposium, Fayetteville, Arkansas.*
49. Barber KB\*\*, Keeley DW\*, **Oliver GD** (2009). Fatigue of the Gluteus Maximus and Gluteus Medius in Relation to Pelvic Kinematics in Baseball and Softball Pitching. *4th Annual RAZOR Fitness Sports Medicine Symposium, Fayetteville, Arkansas.*

48. Keeley D\*, **Oliver GD** (2009). Predicting Lower Extremity Strength Deficits in College Students Using Common Field Power Tests. *Central States Chapter of the American College of Sports Medicine: Columbia, Missouri.*
47. Perkey D, **Oliver GD** (2009). Anatomical and Biomechanical Considerations for the Overhead Throwing Athlete. *Arkansas Alliance of Health Physical Education, Recreation and Dance Annual Meetings. Eureka Springs, Arkansas.*
46. **Oliver GD**, Perkey D (2009). Biomechanics of the Windmill Softball Pitch. *Arkansas Alliance of Health Physical Education, Recreation and Dance Annual Meetings. Eureka Springs, Arkansas.*
45. Adams-Blair HR, **Oliver GD** (2009). Implementation of a Core Stability Program in Physical Education Classes of Elementary School Children. *Physical Education Teacher Education Conference. Myrtle Beach South Carolina.*
44. Keeley DW\*, **Oliver GD**, Dwelly P\*, Hoffman H\*, Dougherty CP (2009). Relationships Between Hip and Shoulder Rotation during Baseball Pitching. *XXVII International Society of Biomechanics in Sports Conference. Limerick, Ireland.*
43. Hoffman H\*\*, **Oliver GD**, Keeley DW\*, Barber K\*\*, Dwelly P\* (2009). The Relationship Between Gluteal Activity and Pelvic Kinematics during the Windmill Softball Pitch. *XXVII International Society of Biomechanics in Sports Conference. Limerick, Ireland.*
42. Keeley DW\*, **Oliver GD**, Dwelly P\*, Hoffman H\*\* (2009). A Kinematic Description of the Post Pubescent Windmill Softball Pitching Motion. *XXVII International Society of Biomechanics in Sports Conference. Limerick, Ireland.*
41. Keeley DW\*, **Oliver GD**, Dwelly P\*, Hoffman H\*\* (2009). A Kinematic Comparison of the Youth Pitching Motion Across Prepubescent and Pubescent Pitchers. *XXVII International Society of Biomechanics in Sports Conference. Limerick, Ireland.*
40. Dwelly P\*, **Oliver GD**, Adams-Blair HR, Keeley DW\*, Hoffman H\* (2009). Improved Muscle Activation in Performing a Functional Lunge Compared to the Traditional Squat. *XXVII International Society of Biomechanics in Sports Conference. Limerick, Ireland.*
39. **Oliver GD**, Dwelly P\*, Keeley DW\*, Hoffman H\*\* (2009). Upper Extremity and Core Muscle Firing Patterns during the Windmill Softball Pitch. *XXVII International Society of Biomechanics in Sports Conference. Limerick, Ireland.*
37. **Oliver GD**, Dwelly P\*, Keeley DW\*, Hoffman H\*\* (2009) Examination of Gluteal Muscle Firing and Kinetics of the Lower Extremity during the Windmill Softball Pitch. *XXVII International Society of Biomechanics in Sports Conference. Limerick, Ireland.*
36. **Oliver GD** (2009). Athletic Pubalgia. *Southwest Athletic Trainers' Association Annual Meeting. Arlington, Texas.*
35. Helmer RA\*, Dwelly P\*, **Oliver GD** (2009). Analysis of Navicular Drop in Moderately Active College Students. *World Federation of Athletic Training and Therapy. San Antonio, Texas.*
34. Keeley DW\*, **Oliver GD**, Wicke J (2009). The Kinematics of Arm Decelerations as They Relate to Overuse Injury in Youth Pitchers of Various Ages. *World Federation of Athletic Training and Therapy. San Antonio, Texas.*
33. Dwelly P\*, **Oliver GD**, Kwon Y-H (2009). Kinematic Motion of the Windmill Softball Pitch in Prepubescent and Pubescent Females. *World Federation of Athletic Training and Therapy. San Antonio, Texas.*
32. Keeley DW\*, **Oliver GD** (2009). Kinematic Differences in Youth Baseball Pitchers: An Investigation into the Cocking and Acceleration Phases. *American College of Sports Medicine, Seattle, Washington.*
31. Dwelly P\*, **Oliver GD**, Adams-Blair HR (2009). Improved Muscle Activation in Performing a Functional Lunge Versus a Traditional Squat. *American College of Sports Medicine, Seattle, Washington.*

30. **Oliver GD**, Dougherty CP (2009). Muscle Activation of the Contralateral Leg During an Acute Achilles Tendon Rupture. *American College of Sports Medicine. Seattle Washington.*
29. Esslinger FT\*, Esslinger KA\*, Dwelly PM\*, **Oliver GD** (2009). Identifying a Need for Functional Movement Analysis in Recreationally Active College Students: A Pilot Study. *American Alliance for Health, Physical Education, Recreation and Dance, Tampa Florida.*
28. **Oliver GD**, Adams-Blair H (2009). Core Stability in School Aged Children. *American Alliance for Health, Physical Education, Recreation and Dance, Tampa Florida.*
27. **Oliver GD**, Adams-Blair H (2009). Athletic Injury Prevention through Core Strengthening in Females. *American Alliance for Health, Physical Education, Recreation and Dance, Tampa Florida.*
26. Hoffman HJ\*\*, Dwelly PM\*, Barber KB\*\*, Keeley DW\*, **Oliver GD** (2009). The Relationship Between Pelvic Kinematics and Gluteal Activity. *3rd Annual RAZOR Fitness Sports Medicine Symposium, Fayetteville, Arkansas.*
25. Rabe SB\*, **Oliver GD**, Stone AJ\* (2009). Athletic Pubalgia. *3rd Annual RAZOR Fitness Sports Medicine Symposium, Fayetteville, Arkansas.*
24. **Oliver GD** (2009). Injury Prevention and Performance Enhancement. *NWA Dance Collation, Fayetteville, Arkansas.*
23. Perkey D, **Oliver GD** (2008). Communicating in Different Languages: How to Bridge the Communication Gap between Coaches and Athletic Trainers. *Arkansas Alliance for Health, Physical Education, Recreation and Dance. Little Rock, Arkansas.*
22. **Oliver GD**, Perkey D (2008). The Athletic Hernia. *Arkansas Alliance for Health, Physical Education, Recreation and Dance. Little Rock, Arkansas.*
21. Keeley DW\*, **Oliver GD**, Wicke J (2008). Stride Phase Kinematics in Youth Baseball Pitchers and Their Relation to Overuse Injuries. *Central States Chapter of the American College of Sports Medicine: Kansas City, Kansas.*
20. **Oliver GD** (2008). Be Strong to Live Strong. *Strengthening Our Community by Strengthening our Workforce Skills: Jones Center for Families, Springdale, Arkansas. (Keynote Speaker)*
19. **Oliver GD**, Kern J (2008). Small Group Activities. *University of Arkansas Teaching Camp; Pettie Jean Mountain, Arkansas.*
18. **Oliver GD**, Adams-Blair HR (2008). Core Stability: Playing a Major Role in Athletic Injury Prevention. *National Coaching Educators' Conference; The Canyons, Utah.*
17. DiBrezza R, Fort IL, **Oliver GD**, Adams-Blair HR (2008). Bone Health and Exercise in Active Females. *American Alliance for Health, Physical Education, Recreation and Dance National Convention and Exposition; Fort Worth, Texas.*
16. **Oliver GD** (2008). The RAZOR Curl. *RAZOR Fitness Sports Medicine Symposium, Fayetteville, Arkansas.*
15. **Oliver GD** (2007). Core Strengthening: Playing a Major Role in Prevention of Athletic Injury. *Arkansas Alliance of Health Physical Education, Recreation and Dance Annual Meetings. Eureka Springs, Arkansas.*
14. **Oliver GD**, Adams-Blair HR (2007). Integration of Physical Activity into the Daily Classroom Setting for Elementary Children. *American Academy of Pediatrics National Conference & Exhibition; San Francisco, California. Abstract Oded Bar-Or Award Recipient*
13. **Oliver GD**, Adams-Blair HR (2007). Implementation of Effective Core Stability Activities for Elementary Children. *American Academy of Pediatrics National Conference & Exhibition; San Francisco, California.*

12. **Oliver GD** (2007). Biomechanics of Throwing. *RAZOR Fitness Sports Medicine Symposium; Fayetteville, Arkansas.*
11. **Oliver GD**, Adams-Blair HR (2007). The Importance of Sports Participation in the Lives of Young Females. *Girls & Women Rock: Celebrating 35 Years of Sport & Title IX Symposium; Cleveland, Ohio.*
10. DiBrezza R, Fort IL, **Oliver GD** (2007). Coming Full Circle: Athletics Playing with Academia. *American Alliance for Health, Physical Education, Recreation and Dance National Convention and Exposition; Baltimore, Maryland.*
9. **Oliver GD** (2006). Surface Anatomy of the Upper Extremity. *Southwest Athletic Trainers' Association Annual Meeting. Little Rock, Arkansas.*
8. Adams-Blair H, **Oliver GD** (2006). Physical Activity and Nutrition Integration into the Classroom: Pilot Program for Kentucky. *Alliance for Health, Physical Education, Recreation and Dance National Convention and Exposition; Salt Lake City, Utah.*
7. Adams-Blair HR, **Oliver GD** (2006). Importance of Physical Activity and Sports Participation on Young Females. *4<sup>th</sup> Annual Conference on Girls' and Women's Physical Activity and Sport Sponsored by the Louisiana State University in Shreveport, Louisiana.*
6. **Oliver GD** (2005). Implementing Ultimate Frisbee and disk golf in practical settings. *Practical Living Academy at Eastern Kentucky University, Richmond, Kentucky.*
5. **Oliver GD**, Wilkerson J, Kwon Y-H (2004). Three-dimensional analysis of the windmill softball pitch. *XXII<sup>nd</sup> International Symposium on Biomechanics in Sports. Ottawa, Canada.*
4. **Oliver GD** (2004). Game Day. *Best Practices in the Classroom. Athletic Trainers Educators Summit College of Mount St. Joseph, Cincinnati, Ohio.*
3. **Oliver GD**, Wilkerson J, Kwon Y-H (2003). The Kinematics of the Windmill Softball Pitch. *VII<sup>th</sup> International Olympic World Congress on Sport Sciences. Athens, Greece. Prince de Merode Award Finalist.*
2. **Oliver GD** (2003). Prevention and Rehabilitation of Track Injuries. *Kentucky Track Association Clinic, Eastern Kentucky University, Richmond, Kentucky.*
1. **Oliver GD**, Ables A, Kwon Y-H, Wilkerson JD (2003). Kinematics and Kinetics of the Windmill Softball Pitch. *National Conference on Girls' and Women's Physical Activity and Sport. Louisiana State University, Shreveport, Louisiana.*

## Sports Medicine & Movement Lab Research Funding

3. St. Vincent's Health Center gifted **\$100,000**
2. United States Polo Association (USPA) gifted **\$30,000**
1. Ronnie Rollings gifted **\$140,000** (2022)

## Grants & Contracts

\*indicates a student author under my supervision

20. The Department of Homeland Security Science and Technology Directorate has awarded Auburn University a contract for "Detection Canine Applied Research & Development". This award is for the *Detection Canine Science, Innovation, Technology, and Education*
19. Sefton, J. (July 2015 - November 2017) \$117,000. CFDRS-Sub No 20120295 "Software tool to assess shoulder injury push/pull." (AU Subcontract, Sefton PI). Work to provide laboratory-based data with human subjects to support the development of a computer model to develop military equipment that reduces impact on the soldier. (**Oliver GD** 50% effort). *FUNDED*

18. Sefton J. (April 2015 - March 2017) \$100,000. CFDRS-Sub No 20120975 "Neck injury assessment tool." (AU Subcontract, Sefton PI). Work to provide laboratory-based data with human subjects to support the development of a computer model to develop military equipment that reduces impact on the soldier. (**Oliver GD** 50% effort). *FUNDED*
17. **Oliver GD** (Fall 2016) \$143,901. Major League Baseball. "Biomechanical Normative Data of Youth, High School & Collegiate Softball Pitchers with Implications about Injury Mechanisms at Shoulder and Elbow." *UNFUNDED*
16. Sefton JM. (2015). \$91,000. DOD ContractW911NF-11-D-0001: AU Warrior Research Center project team for contract extension of "Volunteer Investigations for Mounted and Head-Supported Mass in Dismounted Operations." (**Oliver GD** 25% effort). *Electromyographical analysis of lumbar and cervical spine musculature during mounted and head-supported mass in dismounted operations. FUNDED*
15. **Oliver GD** (Spring 2013) \$4,875. College of Education Seed Grant. Auburn University "Effects Competitive Tennis Match Play Duration has on Serve Kinematics, Accuracy and Speed". *FUNDED*
14. Dougherty E, **Oliver GD** (Fall 2012) \$2,650. University of Arkansas Honors College "Landing Mechanics in Female Basketball and Soccer Athletes". *FUNDED*
13. Sherrill J, **Oliver GD** (Fall 2012) \$2,650. University of Arkansas Honors College "Effects of Fatigue on Pelvic and Scapula Stabilizers in Overhead Throwing". *FUNDED*
12. Kaminski S, **Oliver GD** (Spring 2012) \$2,650. University of Arkansas Honors College. "Hip Abduction Strength and Its Relationship with Sequential Movement and Ball Velocity in Softball Players." *FUNDED*
11. Platt B, **Oliver GD** (Fall 2011) \$2,650. University of Arkansas Honors College. "Kinematics of Two Different Overhand Throws: Baseball Pitch and Football Pass." *FUNDED*
10. **Oliver GD** (Summer 2011) \$5,000. University of Arkansas College of Education & Health Professions Summer Research Grant. "Identifying Scapular Abnormalities." *FUNDED*
9. Byers C, **Oliver GD** (Spring 2011) \$2,000. University of Arkansas Honors College. "Effects of Barefoot Technology on Lower Extremity Kinematics While Jumping." *FUNDED*
8. Faculty Mentor, \$1,000. International Society of Biomechanics Congress Travel Grant. Dwelly P, Plummer H, **Oliver GD**. "Quantitative Analysis of Throwing Kinematics of Skeletally Immature Baseball Pitchers." *FUNDED*
7. **Oliver GD** (2010) \$8,500. University of Arkansas Women's Giving Circle "Kinematic and EMG Analysis of Female Softball Catchers." *FUNDED*
6. **Oliver GD**, Keeley DW (Fall 2010) \$5,000. American College of Sports Medicine Doctoral Student Research Grant. "Identifying Upper Extremity Fatigue during Extended Performances in Young Baseball Pitchers." *FUNDED*
5. Barber KB, **Oliver GD** (Spring 2010) \$2,250. University of Arkansas Honors College. "Fatigue of Gluteus Maximus and Gluteus Medius in Relation to Pelvic Kinematics in Baseball and Softball Pitching." *FUNDED*
4. Booker JM, **Oliver GD** (Spring 2010) 2,000. Arkansas Department of Higher Education, Student Undergraduate Research Fellowship (SURF). "Military Boots: Minimizing Knee Valgus in Drop Landings." *FUNDED*
3. Barber KB, **Oliver GD** (Fall 2009) \$2,000. University of Arkansas Honors College. "Fatigue of Gluteus Maximus and Gluteus Medius in Relation to Pelvic Kinematics in Baseball and Softball Pitching." *FUNDED*
2. Booker JM, **Oliver GD** (Fall 2009) \$2,250. University of Arkansas Honors College. "Military Boots: Minimizing Knee Valgus in Drop Landings." *FUNDED*

1. **Oliver GD** (July 2009) \$70,000. Arkansas Biosciences Institute- "Impact of Tobacco Use on the Results of Rotator Cuff Repair."  
*FUNDED*

## Honors & Awards

- 2021 Provost's Award for Faculty Excellence in Undergraduate Research Mentoring  
2021 Keynote Speaker for the International Shoulder Group  
2021 Executive Board Member of the International Society of Biomechanics in Sports  
2020 International Textile and Apparel Association Paper of Distinction Award  
2020 Executive Board Member of the American Baseball Biomechanics Society  
2017 Hank Chambers Award: Best Scientific Paper. *This was awarded to the best scientific paper presented at the Annual Meeting of Pediatric Research in Sports Medicine.*  
2013 Outstanding Faculty Early Career Award College of Education, Auburn University.  
2013 Appointed to the Journal of Athletic Medicine Editorial Board  
2013 Outstanding Alumni Award College of Education University of Arkansas  
2012 Appointed Fellow of the American College of Sports Medicine  
2012 Distinguished Faculty Award from the University of Arkansas Honors College  
2011 University of Arkansas Department of Health, Kinesiology, Recreation and Dance Outstanding Research Award  
2010 University of Arkansas College of Education and Health Professions Rising S.T.A.R. [Service Teaching and Research]  
2010 University of Arkansas Department of Health, Kinesiology, Recreation and Dance Outstanding Research Award  
2008 University of Arkansas Department of Health, Kinesiology, Recreation and Dance Outstanding Service Award

## Nominated

- 2020 Auburn University Provost Award for Faculty Excellence in Undergraduate Research Mentorship  
2019 Auburn University Provost Award for Faculty Excellence in Undergraduate Research Mentorship  
2018 Auburn University Provost Award for Faculty Excellence in Undergraduate Research Mentorship  
2018 Excellence in Research Award FINALIST 'Trunk Lean during a Single-leg Squat is Associated with Trunk Lean during Pitching', American Physical Therapy Association  
2014 Outstanding Faculty Early Career, College of Education, Auburn University

## Professional Memberships

- 2020-Present Board Member American Baseball Biomechanics Society  
2016-Present Pediatric Research in Sports Medicine  
2014-Present International Society of Electrophysiology & Kinesiology  
2012-Present Southeastern Athletic Trainers' Association  
2009-Present International Shoulder Group  
2009-Present National Strength and Condition Association  
2009-Present International Society of Biomechanics in Sports  
2009-Present International Society of Biomechanics  
2009- Present American Society of Biomechanics  
2006-Present Arkansas Athletic Trainers' Association  
2006-Present American College of Sports Medicine  
1996-Present National Athletic Trainers' Association  
1996-Present University of Arkansas Alumni Association  
1996-Present Alumni of Phi Beta Phi Sorority  
1995-2012 Southwest Athletic Trainers' Association  
1994-2008 American Alliance of Health, Physical Education, Recreation, & Dance

## Dissertation Committee Chair

14. Kyle Wasserberger. The Effect of Throwing Intensity on Overhead Throwing Mechanics. PhD Kinesiology 2021

13. Kevin Giordano. The Influence of Cervical Spine Positioning and Spinal Manipulation on Shoulder Rotation Strength. PhD Kinesiology 2021
12. Jessica Downs. The Effects of Increased Workload on Softball Pitching Mechanics, Range of Motion, and Strength. PhD Kinesiology 2021
11. Kenzie Friesen. The Effects of Body Composition on Female Softball Pitching Biomechanics. PhD Kinesiology, 2020
10. Jeff Barfield. Effect of Weight in the Non-Throwing Hand on the Baseball Pitching Motion. PhD Kinesiology, 2019
9. Sarah Gascon. Biomechanical Implications of Performance Garments During the Overhead Throw Among Female Athletes. PhD Kinesiology, 2019
8. Portia Williams. Influence of the Lumbopelvic-hip Complex on Upper Extremity Kinetics in Baseball Pitching. PhD Kinesiology, 2019
7. Matthew Hanks. The Effect of Stride Foot Contact Orientation on Overhand Shot Kinematics, Kinetics, and Performance Outcomes in Male Lacrosse Players. PhD Kinesiology, 2018
6. Jessica Washington. Influence of the Lumbopelvic-hip Complex on Female Softball Hitting. PhD Kinesiology, 2018
5. Lisa Henning. Clinical Tests of Lumbopelvic-Hip Complex Function in Individuals with and without Scapular Dyskinesis: Implications for Identifying Individuals at Risk for Upper Extremity Injury. PhD Kinesiology, 2016
4. Taylor Holt. Yoga: Effects on Throwing Performance, Range of Motion, Strength, and Flexibility in a NCAA Division I Softball Team. PhD Kinesiology, 2016
3. Hillary Plummer. The Effects of Aerobic and Localized Fatigue on Jump Shot Kinematics and Kinetics in THB. PhD Kinesiology, 2015
2. David Keeley. Effects of an Extended Pitching Performance on the Shoulder of Young Baseball Pitchers. PhD Kinesiology University of Arkansas, 2011
1. Priscilla Dwelly. Athletic Training Students' Ability to Identify Scapular Dyskinesis. PhD Kinesiology University of Arkansas, 2011

### **Dissertation Committee Member**

10. Noel Tuttle, PhD Kinesiology, Texas Woman's University 2022
9. Brandi Decoux. PhD Kinesiology, 2019
8. Lorraine Smallwood. PhD Kinesiology, 2018
7. Christopher Wilburn. PhD Kinesiology, 2017
6. Melinda Watts. PhD Athletic Training, 2017
5. Brian Kliszczewicz. PhD Kinesiology, 2015
4. Jared Rehm. PhD Kinesiology, 2015
3. John Fox. PhD Kinesiology, 2015
2. Braden Romer. PhD Kinesiology, 2014

1. Jaynesh Patel. PhD Kinesiology, 2014

## Master's Thesis Committee Chair

4. Caitlin Whale. Correlation of hip abductor strength and functional performance in division 1 college soccer athletes. MS Kinesiology University of Arkansas, 2012
3. Daniel Black. The Effect of Foot Condition on Kinetic & Kinematic Variables of a Vertical Jump. MS Kinesiology University of Arkansas, 2011
2. Hillary Plummer. Kinematic & Electromyographic Description of Baseball & Softball Catching. MAT [Athletic Training] University of Arkansas, 2011
1. Masa Abe. Quantitative EMG of Core Musculature Activation Patterns Among Elite Collegiate Pitchers. MS Kinesiology. University of Arkansas, 2010

## Teaching Experience

### *Auburn University*

KINE 3620	Biomechanical Analysis of Human Movement (3 hours)
KINE 4690	Corrective Exercise Specialist Preparation (3 hours)
KINE 4693	Corrective Exercise Specialist Preparation (Distant Learning) (3 hours)
KINE 4880	Training & Conditioning Programming (3 hours)
UNIV 4980	Interdisciplinary Capstone Experience (3 hours)
KINE 7670	Laboratory Techniques in Biomechanics (3 hours)
KINE 7660	Biomechanics of Sport Injury and Rehabilitation (3 hours)
KINE 8970	Special Topics: Electromyography (3 hours)

### *University of Arkansas*

KINS 5262	Clinical in Athletic Training VI (2 hours)
KINS 5773	Performance & Drugs (3 hours)
KINS 4323	Analytical Basis of Human Movement (3 hours)
KINS 5593	Laboratory Practicum (3 hours)
KINS 5252	Clinical in Athletic Training V (2 hours)
KINS 3093	Tapping & Wrapping Applications in Athletic Training (3 hours)
KINS 5463	Therapeutic Exercise & Rehabilitation of Athletic Injuries (3 hours)
KINS 5453	Therapeutic Modalities (3 hours)

### *Stephen F. Austin State University*

KIN 476	Therapeutic Modalities (3 hours)
KIN 476L	Therapeutic Modalities Laboratory (1 hour)
KIN 531	Therapeutic Modalities (3 hours)
KIN 531L	Therapeutic Modalities Laboratory (1 hour)
KIN 357	Introduction to Athletic Training (3 hours)
KIN 522	Clinical Practicum in Athletic Training II (2 hours)
KIN 554	Introduction to Athletic Training (3 hours)

### *Eastern Kentucky University*

ATR 211	Upper Extremity Evaluation of Athletic Injuries (3 hours)
ATR 212	Lower Extremity Evaluation of Athletic Injuries (3 hours)
ATR 302	Clinical Practicum in Athletic Training, Level IIB (2 hours)
ATR 311	Therapeutic Modalities (3 hours)
ATR 312	Rehabilitation of Athletic Injuries (3 hours)

## Outreach

### **Injury Prevention & Performance Enhancement for Major League Baseball, Texas Rangers**

Beginning collaborations with the Director of Sports Medicine regarding throwing programs and injury prevention in MLB.

## **Research & Laboratory Development Mentor for Major League Baseball, Los Angeles Dodgers**

January 2018

Consulted with the Head Athletic Trainer and Director of Biomechanics regarding the appropriate motion capture system for analyzing baseball pitching.

## **Developed Pre-Riding Video Instructional Series for United States Polo Association**

October 2017

Description: Developed injury prevention pre-riding program for polo athletes. Recorded two days of instructional video in Aiken, South Carolina.

Mission: This program was an extension of the softball pre-throwing program developed by the Sports Medicine and Movement Laboratory within the School of Kinesiology at Auburn University. The overall mission was to devise a platform of dissemination.

Scholarship: A pre-riding program was produced (<https://poloskilz.com/warmup-glossary/index.html>) as well as instructional videos (<https://www.youtube.com/watch?v=YoxrLxZmo68&t=213s>) (<https://www.youtube.com/watch?v=1oLqOqvDRtU&t=6s>) (<https://www.youtube.com/watch?v=dA5frb-c5kQ>).

Impact: The instructional series is the foundation of an injury prevention developmental series for the United States Polo Association.

## **Injury Prevention Pre-Riding Workshop United States Polo Association**

June 2017

Description: Conducted an injury prevention workshop for youth polo athletes within the United States Polo Association summer program in Sheridan, Wyoming.

Mission: This program was an extension of the softball pre-throwing program developed by the Sports Medicine and Movement Laboratory within the School of Kinesiology at Auburn University.

Scholarship: Data were collected on youth polo athletes pre and post program intervention.

Impact: The coaches and youth athletes gained an appreciation of total body conditioning and preparation prior to their riding performance. Youth polo athletes also received feedback on riding posture and swing performance.

## **Injury Prevention & Performance Enhancement United States Polo Association**

December 2016 - 2019

Description: The Sports Medicine and Movement Laboratory established a partnership with the United States Polo Association for injury prevention and performance enhancement.

Mission: This program is in line with the goals of the School of Kinesiology Mission of Outreach as well as the Sports Medicine and Movement Laboratory. Overall goal is to establish normative data on the off-side polo swing and disseminate those data in scholarly publications.

Scholarship: Data were collected on male and female professional polo athletes. Data collected have resulted in manuscript publications.

Impact: The coaches gained an appreciation of the missing link to their injury prevention and training programs. Additionally, athletes received biomechanical feedback on their polo swing.

## **Injury Prevention & Performance Enhancement for Major League Baseball, Houston Astros**

March 2015 - Present

Description: Collaboration with the head athletic trainer and sports medicine staff regarding pre-throwing programs for injury prevention as well as performance enhancement for the purpose of decreasing recovery time in baseball athletes.

Mission: This program is in line with the goals of the School of Kinesiology Mission of Outreach as well as continuing a line of research focus within the Sports Medicine and Movement Laboratory.

Scholarship: Several evidence-based rehabilitation exercises were developed and tested in the Sports Medicine and Movement Laboratory. These exercises were tested via surface electromyography. Several manuscripts have been published from this scope of work.

Impact: Athletes received biomechanical feedback of their desired skill. Based on the assessment and coach collaboration, a proposed training protocol was developed.

## **Injury Prevention & Performance Enhancement Auburn University Softball**

June 2014 – August 2017

Description: The Sports Medicine and Movement Laboratory established a partnership with Auburn University Softball Team for injury prevention and performance enhancement.

Mission: This program was in line with the goals of the School of Kinesiology Mission of Outreach and the research focus within the Sports Medicine and Movement Laboratory.

Scholarship: Athletes received biomechanical feedback of their desired skill. Based on the assessment and coach collaboration, a proposed training protocol was developed. Data were collected, analyzed and published in scholarly journals.

Impact: The coaches gained an appreciation of the missing link to their injury prevention and training programs.

### **Injury Prevention & Performance Enhancement Auburn University Golf**

November 2014 - 2016

Description: The Sports Medicine and Movement Laboratory established a partnership with Auburn University Men's and Women's Golf Teams for injury prevention and performance enhancement.

Mission: This program was in line with the goals of the School of Kinesiology Mission of Outreach

Scholarship: Athletes received biomechanical feedback of their desired skill. Based on the assessment and coach collaboration, a proposed training protocol was developed.

Impact: The coaches gained an appreciation of the missing link to their injury prevention and training programs.

### **Injury Prevention and Performance Enhancement**

2012 - Present

Description: Assessment of youth mechanics and postural abnormalities as well as provide injury prevention programs to correct those abnormalities.

Mission: Through my research efforts and training I have come to recognize deficits in performance that can lead to injury. Further, since my current research agenda is based on injury prevention of youth, I often come in contact with young players who present these deficits. As a result, I often provide strengthening, stretching and/or performance feedback to participants who may be at increased risk of injury without this feedback.

Scholarship: As an ATC, I have the injury prevention knowledge as well as the injury assessment skills. With my research background in youth sports, I am able to provide evidence-based prevention protocols as well as contribute scholarly publications from data collected.

Impact: The impact of this program continues to grow. This past year I have not had to recruit participants. Participants seek the program out based on the influence the program has had on other participants.

### **Corrective Exercises for Youth Volleyball Coaches**

October 2014

Instructed area volleyball coaches on screening for movement inefficiencies and corrective exercises for those inefficiencies.

### **RAZOR Sports Medicine Symposium Founder**

Developed, organized, and conducted the RAZOR Sports Medicine Symposium for 6 consecutive symposiums (2006-2012).

### **Instructor & Mentor**

Mentor of Undergraduate Capstone Experience (January 2013 - May 2013)

Professional mentor for the International Society of Biomechanics Mentorship Program 2011-present

Professional mentor for the American Society of Biomechanics Mentorship Program 2011-present

Professional mentor for the American College of Sports Medicine Mentorship Program 2010-present

### **Additional Outreach Activities**

Summer 2013-2017

Co-Director and Coordinator of Auburn Speed and Agility Camp through the Auburn University Sport Optimization Center

### **Service**

2021-Present

Auburn University, College of Education Promotion & Tenure Taskforce

2021-Present

President-Elect American Baseball Biomechanics Society

2021-Present	Conference Committee International Society of Biomechanics in Sport (ISBS)
2020-Present	Chair International Society of Biomechanics in Sport (ISBS) Women's Circle
2020-Present	Executive Board Member of the International Society of Biomechanics in Sport (ISBS)
2020-Present	Executive Board Member of the American Baseball Biomechanics Society
2020-Present	College of Education Scholarship Committee
2019-Present	PRiSM (Pediatric Research in Sports Medicine) Motion Analysis Research Interest Group (RIG)
2018-Present (RIG)	PRiSM (Pediatric Research in Sports Medicine) Injury Prevention Research Interest Group
2017-Present	Executive Board Member of the International Shoulder Group
Spring 2017	Auburn University School of Kinesiology Faculty Search Committee
Fall 2016-2020	Auburn University College of Education Diversity & Inclusion Committee, Chair
Summer 2016-2018	Auburn University Softball Camps
Spring 2016-Present	Auburn University School of Kinesiology FCP Program Chair
Spring 2014-Present	Executive Board Member of the International Shoulder Group
Spring 2014-2016	Program Committee of the International Congress on Sport Science and Technology Support
Summer 2013	Appointed as Chair of the SPORTS BIOMECHANICS: THROWING SESSION at the International Society of Biomechanics. Natal, Brazil
Summer 2013-2017	Auburn University Speed & Agility Summer Camps
Spring 2013-Present	Sports Medicine & Movement Laboratory Throwing Analysis for Youth Baseball & Softball
Fall 2013-2016	Director of Sports Medicine USA Team Handball
Fall 2009-Present	Indo Board Fitness Advisory Board
Fall 2008-2010	Southwest Athletic Training Students' Association Advisory Board Chair
Spring 2008-2012	Member of Audit Committee Central States American College of Sports Medicine
Spring 2014	Program Committee of the International Congress on Sport Science and Technology Support
Fall 2012	Auburn University Department of Kinesiology Faculty Search Committee
Fall 2011-2012	University of Arkansas Honors College Strategic Planning Committee
Fall 2011-2012	University of Arkansas Student Honors, Awards and Convocation Committee
Spring 2010-2012	University of Arkansas Honors College Study Abroad Grant Proposal Reviewer
Fall 2009-2012	Member of the University of Arkansas Landscape Committee
Fall 2009-2012	Member of the University of Arkansas Artist and Concerts Committee
Fall 2009-2013	NATA Convention Program Committee
Spring 2008-2012	Member of University of Arkansas College Honors Council
Fall 2007- 2010	Member of the University of Arkansas Academic Standards Committee
Fall 2007-2012	Member of the University of Arkansas College Health Advisory Committee
Fall 2007-2012	Alternate Representative for University of Arkansas Department of HKRD on the College Council
Fall 2007-2012	Program Committee Arkansas Athletic Trainers' Association
Fall 2005-2012	Southwest Athletic Training Students' Association Advisory Board
Fall 2006-2012	Community Service Committee: Kendrick Fincher Heat Illness-Awareness
Fall 2006-2012	Faculty Advisor for Razorback Athletic Trainers' Association.
Spring 2005-2016	Item Writer Board of Certification National Athletic Trainers' Association Exam Committee
Spring 2005	Member of Board of Certification (National Athletic Trainers' Association) Cut Score Study

## Book Reviews

1. Lumpkin A. (2013). Introduction to Physical Education, Exercise Science, and Sports Studies. McGraw-Hill.
2. Miller MG, and Berry DC. (2011). Emergency Response Management for Athletic Trainers. Wolters Kluwer: Lippincott Williams & Wilkins.
3. Knight KL, and Draper DO. (2008). Therapeutic Modalities: The Art and Science. Wolters Kluwer; Lippincott Williams & Wilkins.
4. Prentice WE. (2005). Therapeutic Modalities: For Sports Medicine and Athletic Training. New York, NY: McGraw-Hill Higher Education. (5<sup>th</sup> ed.)

## **Journal Reviewer**

European Journal of Sports Science 2022-present  
American Journal of Sports Medicine 2019-present  
International Journal of Sports Medicine 2017-present  
Journal of Biomechanics 2018-present  
Performance Enhancement & Health May 2018-present  
International Journal of Physical Therapy & Sport 2017-present  
Physical Therapy & Sport 2017-present  
Biomedical Engineering and Biotechnology 2013-present  
Medical & Biological Engineering & Computing Journal 2013-present  
International Journal of Sports Medicine 2012-present  
Scandinavian Journal of Medicine and Sports Sciences 2011-present  
Sports Health 2011-present  
Journal of Sports Sciences 2011-present  
Medicine & Science in Sports & Exercise 2011-present  
Journal of Multidisciplinary Healthcare 2011-present  
Journal of Sports Medicine 2011-present  
Journal of Sport Biomechanics 2011- present  
Journal of Athletic Training 2010-present  
International Journal of Athletic Therapy & Training 2010-present  
Journal of Physical Activity & Health 2009 - present  
Athletic Training Education Journal 2008 – present

## **Editorial Board**

Frontiers in Sports & Active Living: The Biomechanics of Overhead Throwing Sports Skills  
Journal of Clinical Kinesiology

## **Certifications**

Certified Athletic Trainer; National Athletic Trainers Association Board of Certification  
State of Alabama Athletic Trainers License  
Corrective Exercise Specialist (CES)  
NATA Approved Clinical Instructor  
Red Cross Standard First Aid  
American Heart Association Healthcare Provider CPR and AED  
Clinical Instructor Educator (CIE)