# 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 |
| PROFESSIONAL | 1992-1996 | University of Arkansas, Fayetteville, AR  Bachelor of Science in Education, Kinesiology  Emphasis in Athletic Training |
|  | 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 that time, 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 Laboratory has worked extensively with female fast-pitch softball athletes, as well as youth baseball, team handball, and US Polo Association athletes. Over 900 youth and adolescent baseball and softball athletes, as well as over 150 collegiate softball athletes (from 20 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.*

## 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).

## Publications

136. 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](https://www.thieme-connect.de/products/ejournals/html/10.1055/a-1303-4369). *International Journal of Sports Medicine.*2020

135. 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](https://journals.sagepub.com/doi/10.1177/0363546505280431). *American Journal of Sports Medicine.* 2020

134. Watts M, Bobo L, Whitehead M, Dompier T, **Oliver GD†**. Characteristics of Injury in Collegiate Rodeo.

*Clinical Journal of Sports Medicine*. 2020

133. Friesen K\*, Zhang Z\*, Monaghan P\*, **Oliver GD,** Roper JA. [All Eyes on You: How Researcher Presence Changes the Way You Walk](https://www.nature.com/articles/s41598-020-73734-5). *Scientific Reports.* 2020

132. Friesen K\*, Downs J\*, Wasserberger K\*, Shannon D, **Oliver GD†**. [Glenohumeral and Hip Range of](https://www.thieme-connect.de/products/ejournals/html/10.1055/a-1019-7742)

[Motion in Youth Softball Athletes](https://www.thieme-connect.de/products/ejournals/html/10.1055/a-1019-7742). *International Journal of Sports Medicine*. 2020; 41(01): 59-64.

131. Bordelon N\*, Wasserberger K\*, Cassidy M\*\*, **Oliver GD†.** [The Effects of Load Magnitude and Carry](https://journals.lww.com/nsca-jscr/Abstract/9000/The_Effects_of_Load_Magnitude_and_Carry_Position.94153.aspx)

[Position on LumbopelvicHip Complex and Scapular Stabilizer Muscle Activation during Unilateral Dumbbell](https://journals.lww.com/nsca-jscr/Abstract/9000/The_Effects_of_Load_Magnitude_and_Carry_Position.94153.aspx)

[Carries](https://journals.lww.com/nsca-jscr/Abstract/9000/The_Effects_of_Load_Magnitude_and_Carry_Position.94153.aspx). *Journal of Strength & Conditioning Research,* 2020.

130. Gilmer GG\*\*, Roberts MD, **Oliver GD†**. [Evaluation of Serum Relaxin Concentrations and Knee Valgus After Anterior Cruciate Ligament Reconstruction](https://doi.org/10.1177/2325967120S00134). *Orthopaedic Journal of Sports Medicine*. 2020;8 (4\_suppl3)

129. **Oliver GD**, Downs JL\*, Friesen KB\*, Anz AW, Dugas JR, Andrews JR. [Effects of a Simulated Game](https://doi.org/10.1177/2325967120S00135)

[on Pitching Kinematics in Youth Softball Pitchers](https://doi.org/10.1177/2325967120S00135). *Orthopaedic Journal of Sports Medicine*. 2020;8

(4\_suppl3)

128**. Oliver GD**. CORR Insights®: [How Do Scapulothoracic Kinematics During Shoulder Elevation Differ Between Adults With and Without Rotator Cuff Arthropathy?](https://journals.lww.com/clinorthop/Fulltext/2020/11000/How_Do_Scapulothoracic_Kinematics_During_Shoulder.37.aspx) *Clinical Orthopaedics and Related Research*, 2020.

127. Friesen K\*, Anz A, Dugas J, Andrews J, **Oliver GD**†. [The Effects of Body Mass Index on Softball](https://www.thieme-connect.de/products/ejournals/html/10.1055/a-1244-1621)

[Pitchers’ Hip and Shoulder Range of Motion](https://www.thieme-connect.de/products/ejournals/html/10.1055/a-1244-1621). *Sports Medicine International Open.* 2020.

126. Giordano K\*, Chaput M, Anz A, Braziel J, Andrews J, **Oliver GD**†. [Knee Kinetics in Baseball Hitting](https://www.thieme-connect.de/products/ejournals/html/10.1055/a-1236-4102)

[and Return to Play after ACL Reconstruction](https://www.thieme-connect.de/products/ejournals/html/10.1055/a-1236-4102). *International Journal of Sports Medicine* 2020.

125. **Oliver GD**, Downs J\*, Friesen K\*, Saper M, Anz A, Andrews J. [Biceps Tendon Changes and Pitching](https://www.thieme-connect.de/products/ejournals/html/10.1055/a-1236-3855)

[Mechanics in Youth Softball Pitchers](https://www.thieme-connect.de/products/ejournals/html/10.1055/a-1236-3855). *International Journal of Sports Medicine* 2020.

124. Downs J\*, Wasserberger K\*, **Oliver GD**†. [Influence of a Pre-throwing Program on Range of Motion](https://www.thieme-connect.de/products/ejournals/html/10.1055/a-1214-6278)

[and Strength in Baseball Athletes](https://www.thieme-connect.de/products/ejournals/html/10.1055/a-1214-6278). *International Journal of Sports Medicine* 2020.

123. **Oliver GD**. [Baseball Pitching and Softball Pitching: Why the Perplexity?](https://oatext.com/baseball-pitching-and-softball-pitching-why-the-perplexity.php) *Journal of Translational Science*, 2020.

122. Hayano T, Plummer H, **Oliver GD**, Andrews J. [Early Sport Specialization in the Adolescent Female](https://aoj.amegroups.com/article/download/6022/pdf)

[Athlete](https://aoj.amegroups.com/article/download/6022/pdf). *Journal of Visualized Surgery* 2020.

121. **Oliver GD**, Downs J\*, Barbosa G\*, Camargo P. [Descriptive Profile of Shoulder Range of Motion and](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7727435/)

[Strength in Youth Overhead Sports](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7727435/). *International Journal of Sports Physical Therapy,* 2020.

120. Brittain AR\*\*, Friesen KB\*, Wasserberger KW\*, Barfield JW, **Oliver GD**†. [Single-Leg Squat](https://www.mdpi.com/2076-3417/10/5/1648/htm)

[Performance and Reported Pain within Youth Softball Players](https://www.mdpi.com/2076-3417/10/5/1648/htm). *Journal of Applied Science,* 2020, 10(5):

1648; doi: 10.3390/app10051648.

119. Gilmer G\*\*, Washington J, Roberts M, **Oliver GD**†. [Preliminary Evaluation of Dynamic Knee Valgus](https://pubmed.ncbi.nlm.nih.gov/32309763/)

[and Serum Relaxin Concentrations after ACL Reconstruction](https://pubmed.ncbi.nlm.nih.gov/32309763/). *Journal of Bone & Joint Surgery*. 2020; 5(1):

e0060.

118. Wasserberger K\*, Barfield J\*, Downs J\*, **Oliver GD**†. [Glenohumeral External Rotation Weakness](https://doi.org/10.1016/j.jsams.2019.10.025)

[Partially Accounts for Increased Humeral Rotation Torque in Youth Baseball Pitchers](https://doi.org/10.1016/j.jsams.2019.10.025). *Journal of Science*

*and Medicine in Sport*. 2020; 23(4): 361-365.

117. Downs J\*, Friesen K\*, Anz A, Dugas J, Andrews J, **Oliver GD**†. [Effects of a Simulated Game on Pitching Kinematics in Youth Softball Pitchers](https://doi.org/10.1055/a-1062-6475). *International Journal of Sports Medicine.* 2020

116. Gilmer G\*\*, **Oliver GD**†. [Preliminary Evaluation of Knee Kinetics in Female Athletes on Hormonal Contraceptives](https://doi.org/10.1055/a-1034-7901). *International Journal of Sports Medicine.* 2020; 41 (02): 113-118.

115. Gilmer G\*\*, Roberts M, **Oliver GD**†. [The Relationship Between Serum Relaxin Concentrations and Knee Valgus](https://doi.org/10.1055/a-1034-7901). *International Journal of Sports Medicine.* 2020; 41(3): 182-188.

114. Washington J, **Oliver GD**. [Relationship of Pelvis and Torso Angular Jerk to Hand Velocity in Female](https://doi.org/10.1080/02640414.2019.1679584)

[Softball Hitting](https://doi.org/10.1080/02640414.2019.1679584). *Journal of Sports Sciences*. 2020; 38(1): 46-52.

## 2010-2019 Publications

113. Giordano K\*, Wasserberger K\*, Barfield J\*, **Oliver GD**†. [Acute and Chronic Kinematic Effect of](https://www.scitechnol.com/peer-review/acute-and-chronic-kinematic-effect-of-a-resistance-tubing-training-device-on-youth-baseball-and-softball-swings-ARX8.php?article_id=9674)

[Resistance Tubing Training Device on Youth Baseball and Softball Swings](https://www.scitechnol.com/peer-review/acute-and-chronic-kinematic-effect-of-a-resistance-tubing-training-device-on-youth-baseball-and-softball-swings-ARX8.php?article_id=9674). *Journal of Athletic*

*Enhancement.* 2019: 8(2): 1-7.

112. Friesen K\*, Downs J\*, Wasserberger K\*, Shannon D, **Oliver GD**†. [Glenohumeral and Hip Range of Motion in Youth Softball Athletes](https://dpi.org/10.1055/a-1019-7742). *International Journal of Sports Medicine.* 2019; 40: 1-6

111. **Oliver GD**,Plummer HA, Henning LE\*, Saper M, Glimer GG\*\*, Brambeck A\*, Andrews JR. [Effects of](https://journals.lww.com/pedorthopaedics/Abstract/2019/09000/Effects_of_a_Simulated_Game_on_Upper_Extremity.1.aspx)

[a Simulated Game on Upper Extremity Pitching Mechanics and Muscle Activations Among Various Pitch](https://journals.lww.com/pedorthopaedics/Abstract/2019/09000/Effects_of_a_Simulated_Game_on_Upper_Extremity.1.aspx)

[Types in Youth Baseball Pitchers](https://journals.lww.com/pedorthopaedics/Abstract/2019/09000/Effects_of_a_Simulated_Game_on_Upper_Extremity.1.aspx). *Journal of Pediatric Orthopaedics*. 2019; 39 (8): 387-393.

110. Wasserberger K\*, Barfield J\*, Anz A, Andrews J, **Oliver GD**†. [Using Single Leg Squat as an](https://www.sciencedirect.com/science/article/pii/S1440244019300337?via%3Dihub)

[Assessment of Stride Knee Mechanics in Adolescent Baseball Pitchers](https://www.sciencedirect.com/science/article/pii/S1440244019300337?via%3Dihub). *Journal of Science & Medicine in*

*Sport*. 2019; 22 (11): 1254-1259.

109. **Oliver GD**, Gilmer G\*\*, Friesen K\*, Plummer H, Anz A, Andrews J. [Functional Differences in Softball](https://www.sciencedirect.com/science/article/pii/S1440244018303177?via%3Dihub)

[Pitchers With and Without Upper Extremity Pain](https://www.sciencedirect.com/science/article/pii/S1440244018303177?via%3Dihub). *Journal of Science & Medicine in Sport*. 2019,22: 1079

1083.

108. **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](https://journals.sagepub.com/doi/10.1177/2325967119867428)

[2016-2017](https://journals.sagepub.com/doi/10.1177/2325967119867428). *Orthopedic Journal of Sports Medicine*. 2019; 7 (9), 2325967119867428.

107. **Oliver GD**, Friesen K\*, Barfield J\*, Giordano K\*, Anz A, Dugas J, Andrews J. [Association of Upper](https://journals.sagepub.com/doi/10.1177/2325967119865171)

[Extremity Pain with Softball Pitching Kinematics and Kinetics](https://journals.sagepub.com/doi/10.1177/2325967119865171). *Orthopedic Journal of Sports Medicine*. 2019;

7 (8), 2325967119865171.

106. 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](https://journals.lww.com/nsca-jscr/Abstract/9000/The_Association_of_Upper_Body_Kinematics_and.94753.aspx). *Journal of Strength and Conditioning Research.* 2019

105. Oliver GD, Gilmer GG\*\*, Barfield J\*, Brittain A\*\*. [Differences in Trunk and Upper Extremity Kinematics](https://www.tandfonline.com/doi/full/10.1080/02640414.2019.1614713)

[and Segmental Velocities During the Offside Forehand Polo Swing Between Male and Female Athletes](https://www.tandfonline.com/doi/full/10.1080/02640414.2019.1614713).

*Journal of Sports Sciences.* 2019

104. Barfield J\*, **Oliver GD**†. [Relationship Between Sport Specialization in Youth Baseball and Softball](https://meridian.allenpress.com/jat/article/54/10/1067/420842/Sport-Specialization-and-Single-Legged-Squat)

[Athletes and Single-leg Squat Performance](https://meridian.allenpress.com/jat/article/54/10/1067/420842/Sport-Specialization-and-Single-Legged-Squat). *Journal of Athletic Training.* 2019; 54(10): 1067-1073.

103. Wasserberger K\*, Downs J\*, Barfield J\*, Williams T\*\*, **Oliver GD**†. [Lumbopelvic-hip Complex and](https://journals.lww.com/nsca-jscr/Fulltext/2020/10000/Lumbopelvic_Hip_Complex_and_Scapular_Stabilizing.17.aspx)

[Scapular Stabilizing Muscle Activations during Full-body Exercises With and Without Resistance Bands](https://journals.lww.com/nsca-jscr/Fulltext/2020/10000/Lumbopelvic_Hip_Complex_and_Scapular_Stabilizing.17.aspx).

*Journal of Strength and Conditioning Research.* 2019

102. Peart A\*, Wadsworth D, Washington JK\*, **Oliver GD**†. [Body Composition Assessment in Female](https://journals.lww.com/nsca-jscr/Fulltext/2019/11000/Body_Composition_Assessment_in_Female_National.20.aspx)

[NCAA Division I Softball Athletes as a Function of Playing Position Across a Multiyear Timeframe](https://journals.lww.com/nsca-jscr/Fulltext/2019/11000/Body_Composition_Assessment_in_Female_National.20.aspx). *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](https://www.thieme-connect.de/products/ejournals/html/10.1055/a-0810-8637). *International Journal of Sports Medicine.* 2019

100. Gilmer GG\*\*, Washington JK\*, Dugas J, Andrews J, **Oliver GD**†. [The Role of Lumbopelvic-Hip Complex Stability in Softball Throwing Mechanics](https://doi.org/10.1123/jsr.2017-0276). *Journal of Sport Rehabilitation.* 2018; 28 (2): 196-204

99. **Oliver GD**,Plummer HA, Washington JK\*, Weimar WH, Brambeck A\*. [Effects of Game Performance on Softball Pitchers and Catchers](https://www.researchgate.net/publication/313901385_Effects_of_Game_Performance_on_Softball_Pitchers_and_Catchers). *Journal of Strength and Conditioning Research.* 2019; 33(2): 466-473.

98. Barfield J\*, **Oliver GD**†. [What Do We Know About Youth Softball Pitching and Injury?](https://doi.org/10.1186/s40798-018-0168-6) *Sports Medicine*

*Open.* 2018; 4:50

97. Barfield JW\*, **Oliver GD**†. [Acute Effects of a Resistance Tubing Training Device on Baseball Swing Kinematics](https://www.scitechnol.com/peer-review/acute-effects-of-a-resistance-tubing-training-device-on-baseball-swing-kinematics-CLVD.php?article_id=7999). *Journal of Athletic Enhancement.* 2018; 7:4.

96. Barfield JW\*, Plummer HA, Anz AW, Andrews JR, **Oliver GD**†. [Biceps Tendon Changes in Youth Softball Pitchers Following an Acute Bout of Pitching](https://doi.org/10.1055/a-0671-2170). *International Journal of Sports Medicine*. 2018; 39:1

6.

95. Barfield JW\*, **Oliver GD**†. [Tuck Jump Assessment as an Indicator for Upper Extremity Injury](https://doi.org/10.1055/a-0655-7345). *Sports Medicine International Open.* 2018; 2:1-4.

94. **Oliver GD**, Gilmer GG\*\*, Anz AW, Friesen K\*, Brittain A\*, Goodlett M, Dugas JR, Andrews JR. [Upper](https://doi.org/10.1055/1-0658-1546)

[Extremity Pain and Pitching Mechanics in NCAA Division I Softball](https://doi.org/10.1055/1-0658-1546). *International Journal of Sports*

*Medicine*. 2018; 39:929-935.

93. Barfield JW\*, Anz AW, Andrew JR, **Oliver GD**†. [The Relationship of Glove Arm Kinematics with](https://pubmed.ncbi.nlm.nih.gov/30023405/)

[Established Pitching Kinematic and Kinetic Variables among Youth Baseball Pitchers](https://pubmed.ncbi.nlm.nih.gov/30023405/). *Orthopedic Journal*

*of Sports Medicine.* 2018; 6(7):1-6.

92. Gascon SS\*, Gilmer GG\*\*, Hanks MH\*, Washington JK\*, **Oliver GD**†. [Biomechanical Influences of a](https://pubmed.ncbi.nlm.nih.gov/30140563/)

[Postural Compression Garment on Scapular Positioning](https://pubmed.ncbi.nlm.nih.gov/30140563/). *International Journal of Sports Physical Therapy.*

2018; 13(4):1-7.

91. Gilmer GG\*\*, Washington JK\*, **Oliver GD**†. [Assessment of Lumbopelvic-hip Complex Instability and Segmental Sequencing Amongst Softball Athletes](https://doi.org/10.1080/23335432.2018.1481456). *International Biomechanics.* 2018;

90. Williams P\*, Barfield JW\*, **Oliver GD**[†](https://www.oatext.com/emg-analysis-of-dynamic-warm-up-exercises-for-overhead-sports.php)[. EMG Analysis of Dynamic Warm-up Exercises for Overhead](https://www.oatext.com/emg-analysis-of-dynamic-warm-up-exercises-for-overhead-sports.php)

[Sports](https://www.oatext.com/emg-analysis-of-dynamic-warm-up-exercises-for-overhead-sports.php). *Physical Medicine and Rehabilitation Research.* 2018; 3(2):1-5

89. Hanks M\*, Brewer L\*, Gilmer G\*\*, **Oliver GD**†. [The Influence of Self-Selected Protective Equipment on](http://www.remedypublications.com/open-access/pthe-influence-of-self-selected-protective-equipment-on-kinematics-in-youth-lacrosse-playersp-2254.pdf)

[Kinematics in Youth Lacrosse Players](http://www.remedypublications.com/open-access/pthe-influence-of-self-selected-protective-equipment-on-kinematics-in-youth-lacrosse-playersp-2254.pdf). *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](https://www.researchgate.net/publication/327206627_The_Effects_of_a_Pre-Throwing_Program_on_Collegiate_NCAA_Division_I_Softball_Pitchers'_Biomechanical_Measures_of_Hip_and_Shoulder_Range_of_Motion)

[Throwing Program on Collegiate NCAA Division I Softball Pitchers’ Biomechanical Measures of Hip and](https://www.researchgate.net/publication/327206627_The_Effects_of_a_Pre-Throwing_Program_on_Collegiate_NCAA_Division_I_Softball_Pitchers'_Biomechanical_Measures_of_Hip_and_Shoulder_Range_of_Motion)

[Shoulder Range of Motion](https://www.researchgate.net/publication/327206627_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;

87. **Oliver GD**, Gilmer GG\*\*, Barfield JW\*, Brittain AR\*\*. [Swing Mechanics of the Offside Forehand in Professional Female Polo Athletes](https://www.researchgate.net/publication/327206566_Swing_Mechanics_of_the_Offside_Forehand_in_Professional_Female_Polo_Athletes). *Journal of Orthopaedic Research and Therapy.* 2018;

86. Washington JK\*, Gilmer GG\*\*, **Oliver GD**†. [Influence of Acute Hip Abduction Fatigue on Lumbopelvic-Hip Complex Stability in Softball Players](https://www.thieme-connect.de/products/ejournals/abstract/10.1055/a-0577-3722). *International Journal of Sports Medicine.* 2018; 39(7):571-575.

85. Washington JK\*, **Oliver GD**†. [Kinematic Differences Between Hitting Off a Tee Versus Front Toss in Collegiate Softball Players](https://doi.org/10.1080/23335432.2018.1472038). *International Biomechanics*. 2018; 5(1): 30-35.

84. Washington JK\*, Gilmer GG\*\*, Barfield JW\*, Gascon SS\*, Saper M, Dugas J, Andrews J, **Oliver GD**†. [Differences in Segmental Speeds as a Function of Maturation in Youth Baseball Pitchers](https://doi.org/10.1055/s-0044-102134). *International Journal of Sports Medicine*. 2018; 39:1-6.

83. **Oliver GD**, Plummer HA, Washington JK\*, Saper M, Dugas J, Andrews J. [Pitching Mechanics in](https://pubmed.ncbi.nlm.nih.gov/30038835/)

[Female Youth Fast-Pitch Softball](https://pubmed.ncbi.nlm.nih.gov/30038835/). *International Journal of Sports Physical Therapy.* 2018; 13(3):493-500.

82. Gilmer GG\*\*, Gascon SS\*, **Oliver GD**†. [Classification of Lumbopelvic-Hip Complex Instability on Kinematics Amongst Female Handball Athletes](https://doi.org/10.1016/j.jsams.2017.12.009). *Journal of Science and Medicine in Sport*. 2018; 21: 805-810.

81. **Oliver GD**, Barfield JW\*, Gilmer GG\*\*, Brittain AA\*\*, Washington JK\*. [Horizontal Shoulder Abduction](https://www.scholarsresearchlibrary.com/articles/horizontal-shoulder-abduction-and-elbow-kinetics-in-the-offside-forehand-polo-swing-13431.html)

[and Elbow Kinetics in the Offside Forehand Polo Swing](https://www.scholarsresearchlibrary.com/articles/horizontal-shoulder-abduction-and-elbow-kinetics-in-the-offside-forehand-polo-swing-13431.html). *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](https://clinmedjournals.org/articles/ijp/international-journal-of-physiatry-ijp-4-013.php?jid=ijp). *International Journal of Physiatry.* 2018; 4:1-8.

79. **Oliver GD**, Washington JK\*, Gascon SS\*, Plummer HA, Escamilla R, Andrews J. [Effects of Hip](https://doi.org/10.1123/jsr.2017-0182)

[Abduction Fatigue on Trunk and Shoulder Kinematics During Throwing and Passive Hip Rotational Range](https://doi.org/10.1123/jsr.2017-0182)

[of Motion](https://doi.org/10.1123/jsr.2017-0182). *Journal of Sport Rehabilitation*. 2018;

78. Plummer HA, **Oliver GD**, Powers CM, Michener LA. [Trunk Lean During a Single-Leg Squat is Associated With Trunk Lean During Pitching](https://pubmed.ncbi.nlm.nih.gov/29484242/). *International Journal of Sports Physical Therapy.* 2018; 13:58-65.

77. Hanks M\*, Sefton J, **Oliver GD**†**.** [Neck kinematics and electromyography while wearing head supported mass during running](https://doi.org/10.3357/AMHP.4955.2018). *Aerospace Medicine and Human Performance.* 2018; 89(1): 9-13.

76. **Oliver GD**, Washington JK\*, Barfield JW\*, Gascon SS\*, Gilmer GG\*\*. [Quantitative Analysis of Proximal](https://pubmed.ncbi.nlm.nih.gov/29786622/)

[to Distal Kinetic Chain Musculature During Dynamic Exercises](https://pubmed.ncbi.nlm.nih.gov/29786622/). *Journal of Strength and Conditioning*

*Research.* 2018; 32(6): 1545-1553.

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1. DiBrezzo R, **Oliver GD**. [ACL Injuries in Active Girls and Women](https://shapeamerica.tandfonline.com/doi/pdf/10.1080/07303084.2000.10605157). *Journal of Physical Education,*

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### Auburn Undergraduate Research Journal Publications

These publications are from my undergraduate research fellows who received research fellowship funding

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6. Phan J\*\*, Friesen K\*, **Oliver GD†**. [Anthropometric Factors in Softball Hitting Performance](http://our.auburn.edu/wp-content/uploads/2020/07/Phan.pdf). *Auburn*

*University Journal of Undergraduate Scholarship* 2020.

5. Brittain A\*\*, **Oliver GD**†. Body Mass Index and Functional Movement Patterns in Collegiate Students.

*Auburn University Journal of Undergraduate Scholarship*. 2019; 8: 21.

4. Brittain A\*\*, **Oliver GD**†. [Mechanics of Professional Polo Players Exhibiting Pain vs. Players Without](http://our.auburn.edu/wp-content/uploads/2018/08/Brittain_2018-AUJUS-1.pdf)

[Pain](http://our.auburn.edu/wp-content/uploads/2018/08/Brittain_2018-AUJUS-1.pdf). *Auburn University Journal of Undergraduate Scholarship.* 2018: 11.

3. Gilmer GG\*\*, Roberts M, **Oliver GD**†. [Correlation of Pelvis Kinematics with Ground Reaction Forces,](http://our.auburn.edu/wp-content/uploads/2018/08/Gilmer_2018-AUJUSdragged.pdf)

[Muscle Activation, and Hormones During a Drop Vertical Jump](http://our.auburn.edu/wp-content/uploads/2018/08/Gilmer_2018-AUJUSdragged.pdf). *Auburn University Journal of*

*Undergraduate Scholarship.* 2018: 11.

2. Clardy K\*\*, Gascon SS\*, Gilmer GG\*, Washington JK\*, **Oliver GD**†. [Kinematics of Youth Baseball](http://our.auburn.edu/wp-content/uploads/2017/12/Kinematics-of-Youth-Baseball_Clardy-1.pdf)

[Pitching and Football Passing](http://our.auburn.edu/wp-content/uploads/2017/12/Kinematics-of-Youth-Baseball_Clardy-1.pdf). *Auburn University Journal of Undergraduate Scholarship.* 2017: 11.

1. Gilmer GG\*\*, Washington JK\*, Plummer HA, and **Oliver GD**[†](http://our.auburn.edu/aujus/effects-of-upper-extremity-pain-history-on-softball-pitching-mechanics-of-the-screwball/)[. Effects of Upper Extremity Pain History on](http://our.auburn.edu/aujus/effects-of-upper-extremity-pain-history-on-softball-pitching-mechanics-of-the-screwball/)

[Softball Pitching Mechanics of the Screwball](http://our.auburn.edu/aujus/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).

109. Bordelon NM\*, Wasserberger KW\*, Downs JL\*, Friesen KB\*, Washington JK, **Oliver GD†**. 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†**. [Knee Kinetics in Baseball Hitting and](https://www.thieme-connect.de/products/ejournals/html/10.1055/a-1236-4102)

[Their Implication for Return to Play After Anterior Cruciate Ligament Reconstruction](https://www.thieme-connect.de/products/ejournals/html/10.1055/a-1236-4102). *American Society of*

*Biomechanics Annual Meeting* 2020.

107. Barfield JW, Bordelon NM\*, Wasserberger KW\*, **Oliver GD†**. 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†**. 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†**. 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](https://doi.org/10.1177/2325967120S00135)

[on Pitching Kinematics in Youth Softball Pitchers](https://doi.org/10.1177/2325967120S00135). *Orthopedic Journal of Sports Medicine* 2020*.*

103. Gilmer G\*\*, Roberts M, **Oliver GD†.** [Evaluation of Serum Relaxin Concentrations and Knee Valgus After Anterior Cruciate Ligament Reconstruction](https://doi.org/10.1177/2325967120S00134). *Orthopedic Journal of Sports Medicine* 2020.

102. Downs JL\*, Friesen KB\*, Wasserberger KW\*, Giordano KA\*, Brittain AR\*, Bordelon NM\*, **Oliver GD†**.

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†**. 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†**.

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†**.

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†**. 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†**. [The Effect of Load Magnitude on Muscle Activation during Unilateral Front Racked Dumbbell](https://journals.lww.com/nsca-jscr/Abstract/9000/The_Effects_of_Load_Magnitude_and_Carry_Position.94153.aspx)

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96. Young MW\*\*, Wasserberger KW\*, Down JL\*, Giordano KA\*, Washington JK, **Oliver GD†**. 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](https://www.researchgate.net/publication/345794770_RELATIONSHIP_OF_LUMBOPELVIC-HIP_STABILITY_ON_BALL_SPEED_IN_FEMALE_WINDMILL_SOFTBALL_PLAYERS)

[Windmill Softball Pitchers](https://www.researchgate.net/publication/345794770_RELATIONSHIP_OF_LUMBOPELVIC-HIP_STABILITY_ON_BALL_SPEED_IN_FEMALE_WINDMILL_SOFTBALL_PLAYERS). *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](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6225970/). *Orthopaedic Journal of Sports Medicine,* 2019; 7(3) (suppl 1) DOI: 10.1177/2325967119S00167

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Stability Grouping Between Three Different Stability Test. *Southeast American College of Sports Medicine*

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During Maturation in Adolescent Baseball Pitchers. *Southeast American College of Sports Medicine 2019*

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89. Giordano K\*, Barfield J\*, Wasserberger K\*, **Oliver GD†.** [Kinematic Effects of a Resistance Tubing](https://www.scitechnol.com/peer-review/acute-and-chronic-kinematic-effect-of-a-resistance-tubing-training-device-on-youth-baseball-and-softball-swings-ARX8.php?article_id=9674)

[Training Device Intervention on Youth Baseball and Softball Swings](https://www.scitechnol.com/peer-review/acute-and-chronic-kinematic-effect-of-a-resistance-tubing-training-device-on-youth-baseball-and-softball-swings-ARX8.php?article_id=9674). *Southeast American College of Sports*

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Device on Hand Path in Youth Baseball and Softball Hitters. *Southeast American College of Sports*

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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*

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86. Williams P\*, Barfield J\*, Downs J\*, Wasserberger K\*, Friesen K\*, Brittain A\*\*, **Oliver GD†**. [Relationship](https://journals.lww.com/acsm-msse/Fulltext/2019/06001/Relationship_of_Lumbopelvic_hip_Stability_on_Ball.1932.aspx)

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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*

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83. Brittain A\*\*, Barfield J\*, Friesen K\*, **Oliver GD†**. The Role of Single Leg Squats in Predicting Pain

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[Forehand Polo Swing in Professional Polo Athletes](https://commons.nmu.edu/cgi/viewcontent.cgi?article=1334&context=isbs). *International Society of Biomechanics in Sport, vol 36,*

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80. **Oliver GD**, Gilmer G\***\***, Friesen K\*, Brittain A\*\*, Anz A, Goodlett M, Dugas J, Andrews J. [Pitching](https://commons.nmu.edu/cgi/viewcontent.cgi?article=1332&context=isbs)

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78. Friesen K\*, Wasserberger K\*, Downs J\*, Washington J\*, Williams T\*\*, **Oliver GD**†. A Comparison of

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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

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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*

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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*

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73. Gascon S**\***, Gilmer G\***\***, Hanks M**\***, Washington J**\***, **Oliver GD**†. [Biomechanical Influence of a Posture](https://www.researchgate.net/publication/327006975_BIOMECHANICAL_INFLUENCES_OF_A_POSTURAL_COMPRESSION_GARMENT_ON_SCAPULAR_POSITIONING)

[Compression Garment on Scapular Positioning](https://www.researchgate.net/publication/327006975_BIOMECHANICAL_INFLUENCES_OF_A_POSTURAL_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*

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*American College of Sport Medicine 2018 Program*.

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Ground Reaction Force in Softball Hitting: A Pilot Study.*Southeast Chapter of American College of Sport*

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Segmental Sequencing Amongst Female Handball Athletes. *American Physician Scientist Association*

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68. Gilmer G\***\***, Gascon S**\***, **Oliver GD**†. Segmental Sequencing Among Female Handball Athletes.

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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*

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66. Barfield J**\***, Gascon S**\***, Gilmer G\***\***, **Oliver GD**†. Segmental Sequencing Among Youth Baseball

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**Oliver GD**†. Single-Leg Squat Trunk Kinematics in Individuals with and without Scapular Dyskinesis.

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62. Holt T**\***, **Oliver GD†.** Core Muscle Activity During Rock Climbing Compared to Plank Exercises. Annual

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61. Henning L**\***, **Oliver GD**†. Functional Approach to Scapular Stabilization in Overhead Throwers. Annual

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58. Holt T**\***, Plummer H**\***, Henning L**\***, **Oliver GD**†. Torso Separation as Youth Baseball Pitchers Approach

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57. Smith C\***\***, Holt T**\***, Plummer H**\***, Henning L**\***, **Oliver GD**†. A Description of Upper Extremity Segmental

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54. Plummer H**\***, **Oliver GD**†, Henning L**\***, Holt T**\***. [Selected Kinetics During the Curveball and Drop Ball](https://www.researchgate.net/publication/318848433_Selected_Kinetics_During_The_Curveball_and_Drop_Ball_Pitches_in_Softball_Pitchers_1947_Board_233_May_29_3)

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15. Keeley D**\***, **Oliver GD**†. Model Predicting Shoulder Compressive Force During Baseball Pitching.

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14. Keeley DW**\***, **Oliver GD**†, Dwelly P**\***, Hoffman H\***\***, Dougherty CP. Relationships Between Hip and

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Conference on Biomechanics in Sports Conference 2009: 585.

13. Hoffman H\***\***, **Oliver GD**†**,** Keeley DW**\***, Barber K\***\***, Dwelly P**\***. [The Relationship Between Gluteal](https://ojs.ub.uni-konstanz.de/cpa/article/view/3378)

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International Conference on Biomechanics in Sports Conference 2009: 574.

12. Keeley DW**\***, **Oliver GD**†, Dwelly P**\***, Hoffman H[\*](https://ojs.ub.uni-konstanz.de/cpa/article/view/3450)**[\*](https://ojs.ub.uni-konstanz.de/cpa/article/view/3450)**[. A Kinematic Description of the Post Pubescent](https://ojs.ub.uni-konstanz.de/cpa/article/view/3450)

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11. Keeley DW**\***, **Oliver GD**†, 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.

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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](https://ojs.ub.uni-konstanz.de/cpa/article/view/3393)

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International conference on Biomechanics in Sports Conference 2009: 608-611.

7. Keeley DW**\***, **Oliver GD**†**.** 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](https://www.researchgate.net/publication/246652872_Muscle_Activation_Of_The_Contralateral_Leg_During_An_Acute_Achilles_Tendon_Rupture_2131)

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5. Dwelly PD**\***, **Oliver GD**†, Adams-Blair HR. [Improved Muscle Activation in Performing a Functional Lunge](https://www.researchgate.net/publication/246650715_Improved_Muscle_Activation_In_Performing_A_Functional_Lunge_Versus_A_Traditional_Squat_1789)

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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**†. 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](https://ojs.ub.uni-konstanz.de/cpa/article/view/1252). The

Proceedings XXIInd 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 VIIth 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

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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.* *37th Annual Injuries in Baseball Course. American Sports Medicine Institute, Birmingham, Alabama.*

17. **Oliver GD** (2019). Identifying the Pathomechanics of Windmill Softball Pitching. *37th 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. 8th 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. 8th 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. *35th Annual Injuries in Baseball Course. American Sports Medicine Institute, Dallas, Texas.*

12. **Oliver GD** (2017). Windmill Pitching Biomechanics and Pain History. *35th 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. *33rd Annual Injuries in Baseball Course. American Sports Medicine Institute, Birmingham, Alabama.*

9. **Oliver GD** (2015). Changes in Baseball and Softball Pitching Mechanics when Fatigued. *33rd 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. *40th*

*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. *6th International Poznan Course in Shoulder, Elbow, and*

*Wrist Surgery. Poznan, Poland.*

3. **Oliver GD** (2012). Shoulder Evaluation. *6th International Poznan Course in Shoulder, Elbow, and Wrist*

*Surgery. Poznan, Poland.*

2. **Oliver GD** (2012). Quantitative Analysis of Shoulder Function. *6th 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

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. MidSouth 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. *60th Annual Meeting and 4th 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. *60th Annual Meeting and 4th 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. *60th Annual Meeting and 4th 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. *60th Annual Meeting and 4th 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. *60th Annual Meeting and 4th 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). Predicative 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 59th 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

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\*. 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. *60th Annual Meeting and 4th 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. *60th Annual Meeting and 4th 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

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 66th 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. *6th 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 LumbopelvicHip 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). Electromyography 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. *7th World Congress of Biomechanics, Boston Massachusetts.*

109. Holt T**\***, **Oliver GD**, Smith C\***\***, Buchanan T\***\*** (2014). Pelvis-trunk Separation in Youth Baseball Pitchers. *7th 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. *61st Annual Meeting and 5th 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*. 61st Annual Meeting and 5th 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. *61st Annual Meeting and 5th 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. *61st Annual Meeting and 5th 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. *61st Annual Meeting and 5th 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. *61st Annual Meeting and 5th 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. *60th Annual Meeting and 4th 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. *60th Annual Meeting and 4th 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. *60th Annual Meeting and 4th 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. *60th Annual Meeting and 4th 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. DiBrezzo 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: Celebrating35 Years of Sport & Title IX Symposium; Cleveland, Ohio.*

10. DiBrezzo 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. *4th 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. *XXIInd 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. *VIIth 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 **$60,000**

§St. Vincent’s has agreed to give $20,000 for 2019.

2. United States Polo Association (USPA) gifted **$30,000**

1. Ronnie Rollings gifted **$25,000**†

†Ronnie Rollings has agreed to gift **$25,000** for 2018, **$25,000** for 2019.

## Grants & Contracts

**\***indicates a student author under my supervision

19. Sefton, J. (July 2015 - November 2017) $117,000. CFDRC-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. CFDRC-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

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

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

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

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 hours)

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

March 2018 – Present

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=1oLqOgvDRtU&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 - Present

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

| Fall 2016-Present | Auburn University College of Education Diversity & Inclusion Committee, Chair |
| --- | --- |
| Summer 2016-Present | Auburn University Softball Camps |
| Summer 2013 | Appointed as Chair of the SPORTS BIOMECHANICS: THROWING SESSION at the International Society of Biomechanics. Natal, Brazil |
| Spring 2016-Pressent | Auburn University School of Kinesiology FCP Program Chair |
| Spring 2014-Present | Executive Board Member of the International Shoulder Group |
| Spring 2014-Present | Program Committee of the International Congress on Sport Science and Technology Support |
| Summer 2013-Present | Auburn University Speed & Agility Summer Camps |
| Spring 2013-Present | Sports Medicine & Movement Laboratory Throwing Analysis for Youth Baseball & Softball |
| Fall 2013-Present | Director of Sports Medicine USA Team Handball |
| Fall 2009-Present | Indo Board Fitness Advisory Board |
| Fall 2008- Present | Southwest Athletic Training Students’ Association Advisory Board Chair |
| Spring 2008-2012 | Member of Audit Committee Central States American College of Sports Medicine |
| Spring 2017 | Auburn University School of Kinesiology Faculty Search Committee |
| 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 Book Reviews | Member of Board of Certification (National Athletic Trainers’ Association) Cut Score Study |

1. Lumpklin 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.

1. Knight KL, and Draper DO. (2008). Therapeutic Modalities: The Art and Science. Wolters Kluwer; Lippincott Williams & Wilkins.

1. Prentice WE. (2005). Therapeutic Modalities: For Sports Medicine and Athletic Training. New York, NY: McGraw-Hill Higher Education. (5th ed.)

## Journal Reviewer

Performance Enhancement & Health May 2018-present

International Journal of Physical Therapy & Sport 2017-present

Physical Therapy & Sport 2017-present

Biomedical Engineering and Biotechnology June 2013-present

Medical & Biological Engineering & Computing Journal 2013-preset

International SportMed Journal 2012-present

Scandinavian Journal of Medicine and Sports Sciences 2011-present

Journal of 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

Journal of Clinical Kinesiology July 2015- present

## 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)