

## SAKIKO OYAMA, PHD, ATC

### OFFICE ADDRESS

University of Texas San Antonio  
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### HOME ADDRESS

11700 Wall Street #9302  
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### EDUCATION

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#### University of North Carolina at Chapel Hill, Chapel Hill, NC

Interdisciplinary program in Human Movement Science (Doctoral Program)  
School of Medicine, Division of Allied Health, August 2012  
Dissertation: *Effects of Trunk Movement on Pitching Biomechanics and Performance in High School Baseball Pitchers*

#### University of Pittsburgh, Pittsburgh, PA

Master of Science in Sports Medicine, August 2006  
School of Health and Rehabilitation Science  
Thesis: *Profiling Physical Characteristics of Overhead Athlete's Shoulder: Swimmers vs. Baseball Players*

#### Oregon State University, Corvallis, OR

Bachelor of Science in Exercise and Sports Science, June 2004  
School of Health and Human Science

### PROFESSIONAL EXPERIENCE

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2012 - Present	University of Texas at San Antonio, Assistant Professor, Department of Health and Kinesiology Director, Applied Biomechanics Research Laboratory
2007 - 2012	University of North Carolina at Chapel Hill Research Coordinator, Department of Orthopaedics (2009 - 2011) Research Assistant, Sports Medicine Research Laboratory Research Assistant, Neuromuscular Research Laboratory
2005 - 2007	University of Pittsburgh Research Assistant, Neuromuscular Research Laboratory Graduate Assistant Athletic Trainer

## HONORS AND AWARDS

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2012	Journal of Athletic Training Kenneth Knight Award for the Outstanding Research Manuscript (Role: Co-author) University of North Carolina at Chapel Hill, Chapel Hill, NC
2012	National Athletic Trainers' Association Research and Education Foundation, Free Communications Doctoral Poster Award Finalist University of North Carolina at Chapel Hill, Chapel Hill, NC
2011	Louis and Eleanor Duquette Scholarship University of North Carolina at Chapel Hill, Chapel Hill, NC
2010	Human Movement Science Research Day Student Poster Award University of North Carolina at Chapel Hill, Chapel Hill, NC
2007	National Athletic Training Association Doctoral Scholarship University of Pittsburgh, Pittsburgh, PA
2003	Student Athletic Training Scholarship Oregon State University, Corvallis, OR
2003	James and Verna Long Dean's Scholarship Oregon State University, Corvallis, OR
2000	Drucilla Shepard Smith Scholastic Award Oregon State University, Corvallis, OR
2000 - 2004	Provost's Scholarship Oregon State University, Corvallis, OR
2000 - 2004	College of Human Performance Dean's List Oregon State University, Corvallis, OR

## TEACHING EXPERIENCE

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### University of Texas at San Antonio

#### **Instructor**

2013 - Present	Advanced Athletic Training (Undergraduate)
2012 - Present	Biomechanics (Undergraduate)
2012 - Present	Biomechanics (Graduate)

#### **Guest Lecturer**

2013 - Present	Cultural and Scientific Foundations (Undergraduate)
2012 - 2013	Current topics in Kinesiology Health Education ( <i>Graduate</i> )

### University of North Carolina at Chapel Hill

#### **Instructor**

2009 - 2011	Human Cadaver Anatomy Lab (Undergraduate)
2008	Emergency Care (Undergraduate)

### Teaching Assistant

2012	Therapeutic Modalities (Undergraduate)
2011	Research and Statistics Lab in Sports Medicine (Graduate)
2007 - 2012	Human Anatomy and Physiology (Undergraduate)
2009 - 2010	Laboratory Techniques in Sports Medicine ( <i>Graduate</i> )
2009 - 2010	Human Gross Anatomy for Athletic Trainers ( <i>Graduate</i> )
2007 - 2008	Biomechanics (Undergraduate)
2007 - 2008	First aid and CPR (Undergraduate)
2007	General Medicine in Athletic Training (Undergraduate)

### Guest Lecturer

2009 - 2010	Orthopedic Assessment: Elbow (Graduate)
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### University of Pittsburgh

#### Instructor

2006	Introduction to Medical Terminology (Undergraduate)
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#### Teaching Assistant

2006 - 2007	Laboratory Techniques in Sports Medicine I/II (Graduate)
2005	Care and Prevention of Athletic Injuries (Undergraduate)
2005	Athletic Training Basics Laboratory (Undergraduate)

### SCHOLARSHIP

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#### Refereed Publications

1. **Oyama S**, Sosa RA, Campbell R, Ortega C, Douphrate DI, Evaluation of Upper Body Kinematics and Muscle Activity During Milking Attachment Task. *Journal of Biomechanics* (In review)
2. **Oyama S**, Waldhelm A, Sosa RA, Patel R, Kalinowski D. Association between Trunk Muscle Strength and Contralateral Trunk Tilt during Pitching in Youth Baseball Pitchers. *Clinical Journal of Sports Medicine* (In review)
3. **Oyama S**, Sosa RA, Campbell R, Correa A. Reliability and Validity of Two-dimensional Angles in Baseball Pitching Motion. *Journal of Applied Biomechanics* (In review)
4. **Oyama S**, Sosa RA, Romero JM. Effects of 7-week Shoulder Exercise Intervention on Joint Mobility, Strength, and Function in Diabetics and Non-Diabetics. *American Journal of Physical Medicine and Rehabilitation* (In review)
5. Schall, M, Fethke, N, Chen, H, **Oyama, S**, Douphrate, D. Accuracy and repeatability of an inertial measurement unit system for field-based occupational studies. *Ergonomics*: Aug: 1-23, 2015

6. Hibberd EE, Shutt CE, **Oyama S**, Blackburn JT, Myers JB. Physical Contributors to Glenohumeral Internal Rotation Deficit in High School Baseball Players. *Journal of Sports and Health Science*: 2015; 4(3): 299-306
7. **Oyama S**, Yu B, Padua DA, Blackburn JT, Li Li, Myers JB. Improper trunk rotation sequence is associated with increased maximal shoulder external rotation angle and shoulder joint force during baseball pitching. *American Journal of Sports Medicine*: 2014; 42(9): 2089-94
8. Hibberd EE, **Oyama S**, Tatman JA, Myers JB. Dominant-limb Humeral Retrotorsion and Range of Motion Adaptation in Collegiate Baseball and Softball Position Players. *Journal of Athletic Training*: 2014; 49(4): 507–513
9. Lisowski JK, **Oyama S**, Hibberd EE, Myers JB, Prentice WE, Creighton RA. Biceps Brachii Does Not Play an Active Role in Humeral Movement. *Athletic Training and Sports Health Care*: 2014; 6(4): 179-188
10. **Oyama S**, Register-Mihalik JK, Mueller FO, Marshal SW. Life-time prevalence of pitching-related upper extremity injuries in collegiate baseball pitchers. *Athletic Training and Sports Health Care*: 2014; 6(3): 105-10
11. Virag BJ, Hibberd EE, **Oyama S**, Padua DA, Myers JB. Prevalence of Freestyle Biomechanical Errors in Elite Competitive Swimmers. *Sports Health: A Multidisciplinary Approach*: 2014; 6(3): 218-24
12. Hibberd EE, **Oyama S**, Myers JB. Increase in Humeral Retrotorsion Accounts for Age-related Increase in Glenohumeral Internal Rotation Deficit in Youth/Adolescent Baseball Players. *American Journal of Sports Medicine*: 2014; 42(4): 851-8
13. **Oyama S**, Yu B, Padua DA, Blackburn JT, Li Li, Myers JB. Effects of excessive lateral trunk tilt on pitching biomechanics and performance in high school baseball pitchers. *American Journal of Sports Medicine*: 2013; 41(10): 2430 - 2438
14. Mihalik JP, Lengas E, Register-Mihalik JK, **Oyama S**, Begalle RL, Guskiewicz KM. The effects of sleep quality and sleep quantity on concussion assessment. *Clinical Journal of Sports Medicine*: 2013; 23(5): 343-348
15. **Oyama S**, Hibberd EE, Myers JB. Changes in Humeral Torsion and Shoulder Rotation Range of Motion in High School Baseball Players Over a 1-Year Period. *Clinical Biomechanics*. 2013; 28(3): 268-272
16. Myers JB, **Oyama S**, Hibberd EE. Scapular dysfunction in high school baseball players sustaining a throwing-related upper extremity injury: a prospective study. *Journal of Shoulder and Elbow Surgery*. 2013; 22(9): 1154-1159

17. **Oyama S**. Prevention of Pitching-related Upper Extremity Injuries through Pitching Technique Instruction. *Journal of Sport and Health Science*. 2012; 1(2): 80-91
18. Aragon VJ, **Oyama S**, Olario SM, Padua DA, Myers JB. A comparison of trunk rotation flexibility between division I collegiate softball position players with and without a history of shoulder or elbow pain. *Journal of Athletic Training*. 2012; 47(5): 507-13
19. Hibberd EE, **Oyama S**, Spang JT, Prentice WE, Myers JB. Effects of 6-week strengthening program on scapular stabilizer strength and scapular kinematics in division I collegiate swimmers. *Journal of Sports Rehabilitation*. 2012; 21:253-265
20. Myers JB, **Oyama S**, Clarke JP. Ultrasonographic assessment of humeral retrotorsion in baseball players: A validation study. *American Journal of Sports Medicine*. 2012; 40(5): 1155-1160
21. Myers JB, **Oyama S**, Rucinski TJ, Creighton RA. Humeral retrotorsion in collegiate baseball pitchers with throwing-related upper extremity injury history. *Sports Health: A Multidisciplinary Approach*. 2011; 4(2): 383-389
22. Register-Mihalik JK, **Oyama S**, Marshall SW, Mueller FO. A descriptive study of pitching practices and self-reported injuries in youth baseball pitchers. *Athletic Training & Sports Health Care*. 2012; 4(1): 11-20
23. Kucera K, Marshall SW, Bell BR, DiStefano MJ, Goerger CP, **Oyama S**. Validity of a national web-based sports injury surveillance system. *Journal of Athletic Training*. 2011; 46(5): 489-499
24. Wassinger CA, Myers JB, Sell TC, **Oyama S**, Rubinstein EN, Lephart SM. scapulohumeral kinematic assessment of the forward kayak stroke in experienced whitewater kayakers. *Sports Biomechanics*. 2011; 10 (2): 98-109
25. **Oyama S**, Myers JB, Colman EC, Blackburn JT. Changes in infraspinatus cross-sectional area and shoulder range of motion with repetitive eccentric external rotator contraction. *Clinical Biomechanics*. 2011; 26 (2): 130-135
26. **Oyama S**, Goerger CP, Goerger BM, Myers JB, Lephart SM. Non-assisted posterior shoulder stretches acutely improve shoulder range of motion in collegiate baseball pitchers. *Athletic Training & Sports Health Care*. 2010; 2 (4): 163-170
27. **Oyama S**, Myers JB, Wassinger CA, Lephart SM. Three-dimensional scapular and clavicular kinematics and scapular muscle activity during retraction exercises. *Journal of Orthopaedic & Sports Physical Therapy*. 2010; 40: 169-179
28. Toler JD, Petschauer MA, Mihalik JP, **Oyama S**, Guskiewicz KM, Halverson SD. Comparison of 3 airway access techniques during suspected spine injury management in American football. *Clinical Journal of Sport Medicine*. 2010; 20 (2): 92-97

29. Myers JB, **Oyama S**, Goerger BM, Rucinski TJ, Blackburn JT, Creighton RA. Influence of humeral torsion on interpretation of posterior shoulder tightness measures in overhead athletes. *Clinical Journal of Sport Medicine*. 2009; 19 (5): 366-371.
30. Myers JB & **Oyama S**. Sensorimotor training for shoulder injury: A review. *Athletic Training & Sports Health Care*. 2009, 1 (5): 199-208
31. **Oyama S**, Myers JB, Wassinger CA, Ricci RD, Lephart SM. Asymmetric resting shoulder posture in healthy overhead athletes. *Journal of Athletic Training*. 2008; 43 (6): 565-570
32. Myers JB & **Oyama S**. Sensorimotor factors affecting outcome following shoulder injury. *Clinics in Sports Medicine*. 2008; 27 (3): 481-490
33. Myers JB, **Oyama S**, Wassinger CA, Ricci RD, Abt JP, Conley KM, Lephart SM. Reliability, precision, accuracy, and validity of posterior shoulder tightness assessment in overhead athletes. *American Journal of Sports Medicine*. 2007; 35: 1922-1930

#### **Non-Refereed Publications**

1. **Oyama S**. Prevention of Pitching-Related Upper Extremity Injuries: Participation factors (attitude and practice) contributing to pitching-related upper extremity injuries. *Coaching Clinic*, Baseball Magazine, Tokyo, Japan. 2013; March:
2. **Oyama S**. Prevention of Pitching-Related Upper Extremity Injuries: Physical contributors to pitching-related upper extremity injuries. *Coaching Clinic*, Baseball Magazine, Tokyo, Japan, 2013: February:
3. **Oyama S**. Prevention of Pitching-Related Upper Extremity Injuries: Biomechanical contributors to pitching-related upper extremity injuries. *Coaching Clinic*, Baseball Magazine, Tokyo, Japan, 2013. January:
4. **Oyama S**. Prevention of Pitching-Related Upper Extremity Injuries: Overview. *Coaching Clinic (Japan)*. 2012. December:
5. **Oyama S**. Epidemiology of Pitching-Related Upper Extremity Injuries. *Coaching Clinic (Japan)*. 2012. November:

#### **Refereed Abstract Presentations**

1. **Oyama S**, Kuehne J, Musser H, Waldhelm GA, Isolated Fatigue of Trunk Muscles Does Not Alter Pitching Biomechanics in High School Baseball Pitchers. 2016 *National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, Baltimore, MD (Submitted)

2. Hibberd EE, **Oyama S**, Myers JB. Physical Characteristics and Injury Rate in High School Baseball Pitchers who Play Catcher as a Secondary Position. 2016 *National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, Baltimore, MD (Submitted)
3. Sosa AR, **Oyama S**, Douphret D, Land W, Ortega C et al, Evaluation of Upper Body Kinematics and Muscle Activation Level During Milking Attachment Task. 2015 Texas Physical Therapy Association Annual Meeting, Dallas, TX
4. **Oyama S**, Waldhelm GA, Sosa RA, Patel RR, Kalinowski L. Association between Trunk Muscle Function and Excessive Contralateral Trunk Tilt during Pitching in Youth Baseball Pitchers. 2015 *National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, St. Louis, MO
5. **Oyama S**, Sosa RA, Romero JM. Effects of 7-week Shoulder Exercise Intervention on Joint Mobility, Strength, and Function in Diabetics and Non-Diabetics. 2015 *American College of Sports Medicine Annual Meeting*, San Diego, CA
6. **Oyama S**, Myers JB. The effects of throwing arm dominance on trunk and upper extremity kinematics in high school baseball pitchers. 2014 *World Congress of Biomechanics*, Boston, MA
7. **Oyama S**, Myers JB. Reliability and Validity of Two-dimensional Video Analysis of Joint and Segment Angles during Baseball Pitching. 2014 *National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, Indianapolis, IN
8. Myers JB, Hibberd EE, **Oyama S**. Shoulder Flexibility and Humeral Retrotorsion do not Prospectively Predict Throwing-Related Arm Injury in High School Baseball Players. 2014 *National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, Indianapolis, IN
9. **Oyama S**, Bing Y, Blackburn JT, Padua DA, Li L, Myers JB. Relationships between trunk kinematics at the critical time points in baseball pitching. 2013 *American Society of Biomechanics Annual Meeting*, Omaha, NE
10. Soujoudi M, **Oyama S**, Myers JB. Ground reaction forces and impulse during landing is not correlated with ball speed in high school baseball pitchers. 2013 *American Society of Biomechanics Annual Meeting*, Omaha, NE
11. **Oyama S**, Bing Y, Blackburn JT, Padua DA, Li L, Myers JB. Improper Trunk Rotation Sequence is Associated with Increased Maximal Shoulder External Rotation Angle and Shoulder Joint Force during Baseball Pitching. 2013 *National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, Las Vegas, NV

12. Hibberd EE, **Oyama S**, Myers JB. Influence of Age on Glenohumeral Internal Rotation Deficit and Humeral Retrotorsion. *2013 National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, Las Vegas, NV
13. Pomorski ME, **Oyama S**, Myers JB, Goto, S, McKeon PO, Zinder SM. Ankle Bracing Enhances Mediolateral Postural Stability in Those With and Without a History of Ankle Sprains. *2013 National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, Las Vegas, NV
14. Hibberd EE, **Oyama S**, Myers JB. Physical Contributors to Glenohumeral Internal Rotation Deficit in High School Baseball Players. *2013 American College of Sports Medicine Annual Meeting*, Indianapolis, IN
15. Lisowski JK, **Oyama S**, Creighton RA, Prentice WE, Hibberd EE, Myers JB. The contribution of the biceps brachii on glenohumeral muscle activation. *2012 National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, St. Louis, MO
16. **Oyama S**, Hibberd EE, Myers JB. Effects of baseball participation and pitching on humeral retrotorsion in high school baseball players. *2012 National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, St. Louis, MO
17. **Oyama S**, Hibberd EE, Myers JB. Changes in shoulder range of motion and humeral torsion in high school baseball players. *2012 American College of Sports Medicine Annual Meeting*, San Francisco, CA
18. Hibberd EE, **Oyama S**, Myers JB. Attitudes and Behaviors concerning shoulder pain in youth competitive swimmers. *2012 Mid-Atlantic Athletic Trainers' Association Annual Meeting*, Greenville, SC.
19. **Oyama S**, Aragon JV, Oliaro SM, Padua DA, Myers JB. Association between the maximum upper torso-pelvis separation angle during throwing and history of upper extremity injury in collegiate softball position players. *2011 National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, New Orleans, LA
20. Aragon JV, **Oyama S**, Oliaro SM, Padua DA, Myers JB. Comparison of trunk rotation flexibility between collegiate softball players with and without a history of upper extremity injuries. *2011 National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, New Orleans, LA
21. Hibberd EE, **Oyama S**, Spang JT, Prentice WE, Myers JB. Scapular kinematic and postural changes in collegiate swimmers due to swim training. *2011 National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, New Orleans, LA
22. Myers JB, **Oyama S**, Marshall SW. Predictors of dominant limb humeral retrotorsion in high school baseball players. *2011 National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, New Orleans, LA



23. Hibberd EE, Myers JB, **Oyama S**, Prentice WE, Spang JT. Effect of a 6-week strengthening program on shoulder and scapular stabilizer strength and functioning in division I collegiate swimmers. *2010 National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, Philadelphia, PA
24. **Oyama S**, Myers JB, Colman EC, Blackburn JT. Changes in infraspinatus cross-sectional area and shoulder range of motion with eccentric shoulder external rotator fatigue: application to thrower's shoulder. *2010 National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, Philadelphia, PA
25. Myers JB & **Oyama S**. Role of humeral torsion in pitchers with arm injury history. *2010 National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, Philadelphia, PA
26. **Oyama S**, Register-Mihalik JK, Marshall SW, Mueller FO. Characteristics of the pitching-related elbow injuries in intercollegiate baseball pitchers. *2010 American College of Sports Medicine Annual Meeting*, Baltimore, MD
27. Toler JD, Petschauer MA, Mihalik JP, **Oyama S**, Halverson SD, Guskiewicz KM, Alternative airway access techniques in American football. *2010 American College of Sports Medicine Annual Meeting*, Baltimore, MD
28. Register-Mihalik JK, **Oyama S**, Marshall SW, Mueller FO. Injury precursors and behaviors associated with injury in a cohort of Little League baseball pitchers. *2010 American College of Sports Medicine Annual Meeting*, Baltimore, MD
29. **Oyama S**, Leigh S, Yu B. A comparison of shoulder joint angle reduction methods. *2009 American Biomechanics Society National Conference*, State College, PA
30. **Oyama S** & Myers JB. Total rotation range of motion deficit attributed to glenohumeral external rotation deficit in collegiate overhead athletes. *2010 National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, San Antonio, TX
31. Myers JB & **Oyama S**. Influence of humeral torsion on posterior shoulder tightness measures in overhead athletes. *2010 National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, San Antonio, TX
32. Kucera KL, Marshall SW, Bell DR, DiStefano M, Goerger CP, **Oyama S**. Validity and reliability of the NCAA's web-based injury surveillance system. *2010 National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, San Antonio, TX
33. Wassinger CA, Myers JB, **Oyama S**, Sell TC, Rubinstein EN, Lephart SM. Shoulder range of motion characteristics in whitewater kayakers with and without shoulder injury. *2008 New Zealand Sports Medicine and Science Conference*. Dunedin, New Zealand

34. Wassinger CA, Myers JB, **Oyama S**, Conley KM, Lephart SM. Scapular kinematics in bilateral upper extremity athletes: A comparison of swimmers and kayakers. *New Zealand Sports Medicine and Science Conference*. Dunedin, New Zealand
35. **Oyama S**, Myers JB, Wassinger CA, Lephart SM. Scapular kinematics and muscle activity during modified Blackburn scapular retraction exercises. *2008 National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, St. Louis, MO
36. **Oyama S**, Myers JB, Wassinger CA, Ricci RD, Abt JP, Conley KM, Lephart SM. Asymmetric resting shoulder position in healthy overhead athletes. *2007 National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, Anaheim, CA.
37. **Oyama S**, Myers JB, Wassinger CA, Ricci RD, Lephart SM. Comparison of range of motion characteristics between competitive baseball pitchers and tennis players. *2007 American College of Sports Medicine Annual Meeting*, New Orleans, LA
38. Wassinger CA, Myers JB, **Oyama S**, Lephart SM. Bilateral comparison of scapulohumeral kinematics in expert whitewater kayakers. *2007 American College of Sports Medicine Annual Meeting*, New Orleans, LA
39. **Oyama S**, Myers JB, Ricci RD, Wassinger CA, Lephart SM. Range of motion characteristics of the swimmer's shoulder: Not the typical overhead athlete. *2007 American Academy of Orthopedic Surgeons Annual Meeting*, San Diego, CA
40. Wassinger CA, Myers JB, **Oyama S**, Ricci DR, Jolly JT, Lephart S.M. Reliability and precision of measuring humeral rotation range of motion with a goniometer. *2006 American College of Sports Medicine Annual Meeting*, Denver, CO
41. Myers JB, Wassinger CA, **Oyama S**, Jolly JT, Ricci RD, Lephart S.M. Accuracy and reliability of two common clinical posterior shoulder tightness assessments. *2006 National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, Atlanta, GA

### **Non-refereed Abstract Presentations**

1. Campbell JB, **Oyama S**, Douphoret D. Evaluation of scapular kinematics during milking tasks. *5<sup>th</sup> Annual Frontiers of Translational Science Research Day*, San Antonio, TX (April 16<sup>th</sup> 2014)
2. Sosa JA, **Oyama S**, Douphoret D. Effects of 7-week shoulder exercise intervention on joint mobility, strength, and function in diabetics and non-diabetics. *5<sup>th</sup> Annual Frontiers of Translational Science Research Day*, San Antonio, TX (April 16<sup>th</sup> 2014)

- Campbell JB, **Oyama S**, Douporet D. Evaluation of scapular kinematics during milking tasks. UTSA Office of Undergraduate Research & Creative Inquiry Showcase, San Antonio, TX (April 24<sup>th</sup> 2014)

### Invited Presentations

- Oyama S. & Palmer T. Influence of Trunk Motion on Risk of Shoulder Injury, 2015 National Athletic Trainers' Association Annual Meeting and Clinical Symposia, St. Louis, MO (June 27)
- Oyama S**. Use of Motion Analysis to Identify Biomechanical Injury Risk Factors, National Science Foundation Computer Research Infrastructure Preparation Workshop, Arlington, TX (May 2<sup>nd</sup>, 2015)
- Oyama S**. Baseball, US, and Japan. 2013 Japan-America Society of San Antonio General Meeting, San Antonio, TX (July 7<sup>th</sup>)
- Oyama S**. Understanding Pitching Injury Using the Dynamic Recursive Model of Etiology in Sports Injury. 2013 Iowa Athletic Trainer's Society Annual Meeting, Dubuque, IA (June 2nd)
- Oyama S**. Understanding Pitching Injury Using the Dynamic Recursive Model of Etiology in Sports Injury; Student symposium. 2013 Iowa Athletic Trainer's Society Annual Meeting, Dubuque, IA (June 2nd)
- Oyama S**. Application of Biomechanics to Injury Prevention. Guest speaker in KAH 5003 Current Trends in Kinesiology and Health Education, University of Texas at San Antonio, San Antonio, TX (April 1<sup>st</sup>)
- Oyama S**. Application of Biomechanics to Injury Prevention. Guest speaker in KAH 5003 Current Trends in Kinesiology and Health Education, University of Texas at San Antonio, San Antonio, TX (October 30<sup>th</sup>)
- Oyama S** & Thigpen CA. Evidence-Based Forum: Shoulder injuries in the overhead athlete-identifying risk factors and development of effective prevention strategies. *2012 National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, St. Louis, MO (June 27)
- Oyama S**. Pathomechanics of elbow injuries. *2011 Charlotte Sports Medicine Symposium*, Charlotte, NC (June 4)
- Oyama S** & Scibeck JS. Evidence-Based Forum: Effect of shoulder alteration on elbow function. *2010 National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, Philadelphia, PA (June 23)

11. **Oyama S.** Linking physical characteristics with upper extremity injuries in overhead athletes. *2010 Charlotte Sports Medicine Symposium*, Charlotte, NC (June 5)
12. Myers JB & **Oyama S.** Understanding upper extremity injury in the throwing athlete. *Australian Institute of Sport Doctoral Seminar*, Canberra, Australia (October 9, 2007)
13. Myers JB & **Oyama S.** Exercise for tendinopathy: Rotator cuff. *2007 Australian Physiotherapy Association Conference Week (Sports Physiotherapy Program)*. Cairns, Australia (October 4-8)
14. Myers JB & **Oyama S.** Rotator cuff functional restoration workshop. *2007 Australian Physiotherapy Association Conference Week (Sports Physiotherapy Program)*. Cairns, Australia (October 4-8)
15. Myers JB & **Oyama S.** Retraining shoulder function during throwing. *2007 Australian Physiotherapy Association Conference Week (Sports Physiotherapy Program)*. Cairns, Australia (October 4-8)
16. Myers JB & **Oyama S.** Functional restoration in the throwing athlete workshop. *2007 Australian Physiotherapy Association Conference Week (Sports Physiotherapy Program)*. Cairns, Australia (October 4-8)

## FUNDING

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### Research Support Awarded

1. **Oyama S** (\$18,269) A long-duration capturing of three-dimensional scapular kinematics using inertial magnetic unit: 2015 UTSA Grants for Research Advancement and Transformation Development (GREAT). (2015)  
Role: Principal Investigator

### Pending Research Support

1. **Oyama S** (\$4,985) Effects of Trunk Muscle Fatigue on Pitching Biomechanics: American College of Sports Medicine Clinical Sports Medicine Endowment.  
Role: Principal Investigator
2. Bhounsule P, Jamshidi M, **Oyama S**, Land WM, Quales J, (\$376,130) Acquisition of a modular robotics system for advancing research in improving human safety and quality of life: National Science Foundation Major Research Instrumentation Grant  
Role: Co-Principal Investigator

## Previous Research Support

1. **Oyama S** (\$4,107) Effects of 7-week shoulder exercise intervention on joint mobility, strength, and function in diabetics and non-diabetics: 2014 UTSA College of Education and Human Development Faculty Research Award. (2014)  
Role: Principal Investigator
2. Myers JB, Marshall SW, **Oyama S**, Guskiewicz KM, Blackburn JT, Creighton RA (\$150,000) Physical contributors to throwing injuries: A prospective study. National Institutes of Health: National Institute of Arthritis and Musculoskeletal and Skin Diseases RO3 Small Grants Program for New Investigators. (2009-2011)  
Role: Co-investigator / Research Coordinator
3. Myers JB, Clarke J, Spang J, **Oyama S**. (\$1800) Ultrasonographic assessment of humeral torsion: A validation study. North Carolina Translational and Clinical Sciences Institute Pilot Grant Program. (2010)  
Role: Co-investigator
4. **Oyama S**. (\$1,000) Scapular Kinematics during Shoulder Rehabilitation Exercises. School of Health and Rehabilitation Science Graduate Research Grant. (2006-2007)  
Role: Principal Investigator
5. **Oyama S**. & Ricci RD. (\$1,000) Profiling Physical Characteristics of Overhead Athlete's Shoulder. Freddie H. Fu Graduate Research Grant (2005-2006)  
Role: Co-principal Investigator

## Research Support (Not funded)

1. Bhounsule P, Jamshidi M, Land WM, McCoin M, **Oyama S** (\$344,109) Acquisition of a modular robotics system for advancing research in improving human safety and quality of life: National Science Foundation Major Research Instrumentation Grant  
Role: Co-Principal Investigator
2. Doupfretre DI, Nowak B, **Oyama S** (\$50,000) Evaluation of a Novel Human Motion Capture System for Field-Based Musculoskeletal Injury Reduction. Institute for Integration of Medicine & Science, CTRC, GCCRI and UTSA Pilot Project.  
Role: Co-investigator
3. **Oyama S**. (\$2,475) Effects of instructional intervention on pitching mechanics in youth and high school baseball pitchers. 2011 National Athletic Trainers' Association Doctoral Research Grant  
Role: Principal Investigator

4. **Oyama S** & Myers JB. 2010 (\$1,998) Effects of instruction on injurious pitching mechanics and performance in youth baseball pitchers. North Carolina Translational and Clinical Sciences Institute Pilot Grant Program (2010)  
Role: Principal Investigator
5. Myers JB & **Oyama S**. (\$5,000) Linking physical characteristics and biomechanics of tennis serve and stroke to upper extremity pain complaints in recreational tennis players. University Research Council, Faculty Small Grants Program (2011)  
Role: Co-investigator
6. Myers JB, Creighton RA, Spang JT, **Oyama S**. (\$20,000) Shoulder physical contributors to throwing related elbow injury in baseball players. American Shoulder and Elbow Surgeons Research Grant Program (2008)  
Role: Co-investigator

### **Course Development Support**

1. **Oyama S** (\$7,500) Re-design of KIN3323 Biomechanics to a Q-course. Quantitative Literacy Program Development Grant, University of Texas at San Antonio (2014).  
Role: Primary-instructor

### **STUDENT RESEARCH ADVISEMENT**

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#### **Doctoral Dissertation Advisement**

University of Texas San Antonio Computer Science

#### **Gayani Samaraweera**

2013- Movement alteration by latency manipulation in a virtual environment for users with multiple sclerosis (Dissertation committee member)

#### **Masters Thesis Advisement**

University of Texas San Antonio Health and Kinesiology Masters Program

#### **Araceli Sosa**

2014 - Evaluation of scapular kinematics during milking tasks (Thesis committee chair)

#### **Masi Soujoudi**

2012 - 2013 The relationship between ground reaction force characteristics and ball speed (Thesis committee chair)

#### **Aashika Gandhi**

2012 - 2013 The bilateral transfer of force control in a sequential task is affected by its intensity (Thesis committee member)

University of North Carolina Athletic Training Masters Program

**Emily Quatromoni**

2014 - 2015 Reliability of a Visual Observation Pitching Assessment in Adolescent Pitchers

**Eric Lengas**

2011 - 2012 The effect of previous night's sleep quantity on clinical measurements of concussion (Role: Primary doctoral student advisor)

**Robert Bonser**

2011 - 2012 The effect of foot type on star-excursion and time-to-boundary measures during single-leg balance tasks (Role: Primary doctoral student advisor)

**Bonnie Virag**

2011 - 2012 Relationship between freestyle biomechanical errors and shoulder pain in elite competitive swimmers (Role: Secondary doctoral student advisor)

**James Lisowski**

2010 - 2011 Contribution of biceps brachii on glenohumeral strength, muscle activation patterns (Role: Primary doctoral student advisor)

**Megan Pomoroski**

2010 - 2011 Ankle bracing and fatigue on time-to-boundary measurements with chronic ankle instability (Role: Primary doctoral student advisor)

**Elizabeth Hibberd**

2009 - 2010 Effect of 6-week strengthening program on scapular stabilizer strength and scapular kinematics in division I collegiate swimmers (Role: Primary doctoral student advisor)

**Veronica Aragon**

2009 - 2010 An association between limited upper torso rotation and timing of rotation during throwing to shoulder pain in division I collegiate softball position players (Role: Primary doctoral student advisor)

**Justin Tatman**

2008 - 2009 Variations in range of motion characteristics between division I collegiate baseball and softball overhead athletes (Role: Primary doctoral student advisor)

**Julianne Toler**

2008 - 2009 Alternative techniques to gain emergency airway access (Role: Secondary doctoral student advisor)

**Sarah Vizza**

2007 - 2008 A prediction of SICK scapula syndrome from scapular stabilizer muscle activation analysis in overhead athletes (Role: Primary doctoral student advisor)

University of Pittsburgh Sports Medicine Masters Degree Program

**Candice Schucker**

2006 - 2007 Evaluation of three on-the-field posterior shoulder stretches in collegiate baseball players (Role: Primary doctoral student advisor)

**PROFESSIONAL MEMBERSHIPS/CERTIFICATIONS**

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**National Athletic Trainers' Association**

2001 - Present      Membership # 988277  
2004 - Present      Certification # 08042378

2004 - 2007          Eastern Athletic Trainers' Association  
2004 - 2007          Pennsylvania Athletic Trainers' Society

**Commonwealth of Pennsylvania Department of State Bureau of Professional and Occupational Affairs Athletic Training Licensure**

2005 - 2006          License # RT003746

**North Carolina Board of Athletic Training Examiners**

2010 - 2012          License # 1736

**American Red Cross**

2009 - 2012          Professional CPR Instructor  
2000 - 2012          Professional CPR and AED  
2007 - 2012          Responding to Emergency Instructor

**American Heart Association**

2013 - Present      Professional CPR and AED

**PROFESSIONAL SERVICE**

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**Presentation Moderation:**

2010                  Human Movement Science Research Day, Chapel Hill, NC  
2009                  National Athletic Trainer's Association Annual Meeting, San Antonio, TX  
2009                  Human Movement Science Research Day, Chapel Hill, NC  
2008                  National Athletic Trainer's Association Annual Meeting, St. Louis, MO  
2006                  National Athletic Trainer's Association Annual Meeting, Anaheim, CA

**Journal Reviewer Activities:**

2015 - Present      American Journal of Sports Medicine  
2014 - Present      Journal of Applied Biomechanics



2013 - Present	Journal of Sports Medicine and Physical Fitness
2012 - Present	International Journal of Athletic Therapy and Training
2011 - Present	Journal of Electromyography and Kinesiology
2011 - Present	Journal of Science and Medicine in Sport
2010 - Present	Gait and Posture
2009 - Present	Clinical Journal of Sport Medicine
2009 - Present	Athletic Training and Sports Health Care
2008 - Present	Sport Medicine Arthroscopy Rehabilitation Therapy and Technology
2008 - Present	Journal of Athletic Training
2006 - Present	Journal of Sports Rehabilitation

### **Extramural Funding Grant Reviewer:**

2014	San Antonio Life Science Institute Innovation (SALSI) Challenge
2014 - 2015	National Athletic Trainer's Association Research and Education Foundation Grant
2009	University of South Dakota Junior Faculty Research Award

### **University Service:**

#### University of Texas at San Antonio

2014 - Present	Department of Kinesiology, Health, and Nutrition, Achievement and Recognition Committee, Chair
2013 - Present	Department of Kinesiology, Health, and Nutrition, Secretary
2012 - Present	College of Education and Human Development Scholarship committee
2013 - Present	Parking and Traffic Committee (University committee)

### **Research Symposium Organization:**

2011	Human Movement Science Research Symposium, Chapel Hill, NC Role: Chair Funding: American Biomechanics Society Regional Conferences Grant (\$2,000)
2010	Human Movement Science Research Symposium, Chapel Hill, NC Role: Assistant Chair

## **PROFESSIONAL DEVELOPMENT**

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### **Continuing Education:**

2012	Journal of Athletic Training Reviewer's Workshop, St. Louis, MO National Athletic Trainers' Association Research and Education Foundation
2011	Seminar: Community-based Research, Chapel Hill, NC

- 2010 Department of Allied Health Science Research Forum  
Seminar: Scientific Writing, Chapel Hill, NC  
North Carolina Translational and Clinical Sciences Institute Pilot Grant Program
- 2009 College Teaching, Chapel Hill, NC  
University of North Carolina at Chapel Hill School of Education & Center for  
Faculty Excellence
- 2009 Journal of Athletic Training Reviewer's Workshop, San Antonio, TX  
National Athletic Trainers' Association Research and Education Foundation
- 2008 Journal of Athletic Training Reviewer's Workshop, St. Louis, MO  
National Athletic Trainers' Association Research and Education Foundation