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HOME ADDRESS

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EDUCATION

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

University of Pittsburgh, Pittsburgh, PA
Master of Science in Sports Medicine, August 2006
School of Health and Rehabilitation Science

Oregon State University, Corvallis, OR
Bachelor of Science in Exercise and Sports Science, June 2004
School of Health and Human Science

PROFESSIONAL EXPERIENCE

2020 - Present	University of Texas at San Antonio Associate Professor and Assistant Chair, Department of Kinesiology Director, Applied Biomechanics Research Laboratory
2018 - 2020	University of Texas at San Antonio Associate Professor and Assistant Chair, Department of Health and Kinesiology Director, Applied Biomechanics Research Laboratory
2012 - 2018	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

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

University of Texas at San Antonio

Instructor

2016 - Present Therapeutic Modalities (Undergraduate)
2015 - Present Clinical Application of Athletic Injuries (Undergraduate)
2013 - Present Advanced Athletic Training (Injury assessment) (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 (*Graduate*)

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 (*Graduate*)
2009 - 2010 Human Gross Anatomy for Athletic Trainers (*Graduate*)
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)

University of Pittsburgh

Instructor

2006 Introduction to Medical Terminology (Undergraduate)

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

Refereed Publications (Published or in press)

1. Cordova A, Gandhi A, Land WM, Yang ZQ, Wang HS, Peng KZ, **Oyama S**, Huang YF, Camargo E and Yao WX, Bilateral Transfer in Force Control is Affected by the Exercise Load Weight: An Implication for Rehabilitation of Stroke Patients. *Annals of Clinical Medicine and Research*: 2020; 1 (2), 1-7
2. Meka R, Alaeddini A, **Oyama S**, and Langer K, An Active Learning Methodology for Efficient Estimation of Expensive Noisy Black-Box Functions using Gaussian Process Regression. *IEEE Access*; 2020; 8, 111460-111474

3. Bickelhaupt B, **Oyama S**, Trbovich M, Benfield J, Burau K, Effect of wheelchair stroke pattern on upper extremity muscle fatigue. *Physical Medicine and Rehabilitation*: 2018; Oct; 10 (10),1004-1011
4. **Oyama S**, Sosa AR, Romero J, Effects of 7-week shoulder exercise intervention on joint mobility, strength, and function in diabetics and non-diabetics. *Journal of International Physical Medicine & Rehabilitation*: 2018; 3 (2): 70-77
5. Hibberd E, **Oyama S**, Myers JB, Rate of upper extremity injury in high school baseball pitchers who play catcher as a secondary position. *Journal of Athletic Training*: 2018; 53 (5): 510-513
6. **Oyama S**, Myers JB, The relationship between the push off ground reaction force and ball speed in high school baseball pitchers. *Journal of Strength and Conditioning Research*: 2018; 32 (5): 1324-1328
7. **Oyama S**, Sosa RA, Campbell R, Ortega C, Douphrate DI, Evaluation of Upper Body Kinematics and Muscle Activity During Milking Attachment Task. *International Journal of Industrial Ergonomics*: 2017; 61: 101-106
8. **Oyama S**, Hibberd E, Myers JB, Preseason Shoulder Range of Motion and Humeral Retrotorsion Does Not Predict Injury in High School Baseball Players. *Journal of Shoulder and Elbow Surgery*: 2017; 26 (7): 1182-1189
9. **Oyama S**, Waldhelm A, Sosa RA, Patel R, Kalinowski D. Trunk muscle function Deficit in youth baseball pitchers with excessive contralateral trunk tilt during pitching. *Clinical Journal of Sports Medicine*: 2017; 27 (5): 475-480
10. **Oyama S**, Sosa RA, Campbell R, Correa A. Reliability and Validity of Two-dimensional Angles in Baseball Pitching Motion. *Journal of Applied Biomechanics*: 2016; 33 (1): 64-68
11. 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
12. 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
13. **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

14. 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
15. 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
16. **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
17. 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
18. 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
19. **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
20. 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
21. **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
22. 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
23. **Oyama S**. Prevention of Pitching-related Upper Extremity Injuries through Pitching Technique Instruction. *Journal of Sport and Health Science*. 2012; 1(2): 80-91
24. 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
25. 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
26. 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
 27. 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
 28. 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
 29. 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
 30. 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
 31. **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
 32. **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
 33. **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
 34. 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
 35. 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.
 36. Myers JB & **Oyama S**. Sensorimotor training for shoulder injury: A review. *Athletic Training & Sports Health Care*. 2009, 1 (5): 199-208

37. **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
38. Myers JB & **Oyama S**. Sensorimotor factors affecting outcome following shoulder injury. *Clinics in Sports Medicine*. 2008; 27 (3): 481-490
39. 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

Manuscripts in Preparation

1. **Oyama S**, Kuehne J, and Musser H, Reliability and validity of biomechanical analysis of pitching motion using inertial measurement units
2. **Oyama S**, Kuehne J, Sosa A, Change in upper trapezius and neck extensor activation levels during object manipulation after repetitive loaded arm elevation
3. **Oyama S**, Ramirez A, Kuehne J, Arm elevation in manual wheelchair users and able bodied individuals throughout a day
4. **Oyama S**, Kuehne J, and Musser H, Reliability and validity of measuring upper extremity kinematics using activities of daily living

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

National Conferences

1. Garza EA, Dugan KN, **Oyama S**, Intra-session and Inter-session reliability of the trunk and hip strength measurements using the portable tension dynamometer. 2020 *National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, Atlanta, GA (Submitted)
2. **Oyama S**, Kuehne JT, Tracking of pitching kinematics using wearable sensors during a simulated game. 2018 *National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, New Orleans, LA
3. **Oyama S**, Reliability and Validity of Pitching Analysis using Inertial Measurement Sensors. 2017 *National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, Houston, TX
4. Pexa BS, Quatromoni E, Miller C, Harkey M, Luc-Harkey B, **Oyama S**, Myers JB, Associations between Baseball Pitching Technical Errors at Stride Foot Contact and Following Stride Foot Contact. 2017 *National Athletic Trainers' Association Annual Meeting and Clinical Symposia*, Houston, TX
5. **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
6. 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
7. **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
8. **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
9. **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
10. **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

11. 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
12. **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
13. 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
14. **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
15. 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
16. 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
17. 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
18. **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
19. **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
20. **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
21. 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

22. 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
23. 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
24. 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
25. **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
26. 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
27. **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
28. 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
29. 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
30. **Oyama S**, Leigh S, Yu B. A comparison of shoulder joint angle reduction methods. *2009 American Biomechanics Society National Conference*, State College, PA
31. **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

32. 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
33. 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
34. **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
35. **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.
36. **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
37. 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
38. **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
39. 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
40. 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

Regional Conferences

1. Sosa AR, **Oyama S**, Douphrate 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
2. 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.

3. 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

Non-refereed Abstract Presentations

1. Campbell JB, **Oyama S**, Douphrate D. Evaluation of scapular kinematics during milking tasks. *5th Annual Frontiers of Translational Science Research Day*, San Antonio, TX (April 16th 2014)
2. Sosa JA, **Oyama S**, Douphrate D. Effects of 7-week shoulder exercise intervention on joint mobility, strength, and function in diabetics and non-diabetics. *5th Annual Frontiers of Translational Science Research Day*, San Antonio, TX (April 16th 2014)
3. Campbell JB, **Oyama S**, Douphrate D. Evaluation of scapular kinematics during milking tasks. UTSA Office of Undergraduate Research & Creative Inquiry Showcase, San Antonio, TX (April 24th 2014)

Invited Presentations

International Conferences

1. Myers JB & **Oyama S**. Understanding upper extremity injury in the throwing athlete. *Australian Institute of Sport Doctoral Seminar*, Canberra, Australia (October 9, 2007)
2. Myers JB & **Oyama S**. Exercise for tendinopathy: Rotator cuff. *2007 Australian Physiotherapy Association Conference Week (Sports Physiotherapy Program)*. Cairns, Australia (October 4-8)
3. Myers JB & **Oyama S**. Rotator cuff functional restoration workshop. *2007 Australian Physiotherapy Association Conference Week (Sports Physiotherapy Program)*. Cairns, Australia (October 4-8)
4. Myers JB & **Oyama S**. Retraining shoulder function during throwing. *2007 Australian Physiotherapy Association Conference Week (Sports Physiotherapy Program)*. Cairns, Australia (October 4-8)

National Conferences

1. **Oyama S**, Biomechanical Considerations for Arm Injury in High School Pitchers. 2016 National Athletic Trainers' Association Annual Meeting and Clinical Symposia, Baltimore, MD (June 25th)

2. **Oyama S**, Hibberd EE, Evidence Based Interventions to Address Alterations in Physical Characteristics in Baseball Players. 2016 National Athletic Trainers' Association Annual Meeting and Clinical Symposia, Baltimore, MD (June 24th)
3. **Oyama S**, Evaluation of Pitching Biomechanics: What Can We See and What Can We Do? 2016 National Athletic Trainers' Association Annual Meeting and Clinical Symposia, Baltimore, MD (June 22nd)
4. **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 27th)
5. **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)
6. **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)

Regional Conferences

1. **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)
2. **Oyama S.** Pathomechanics of elbow injuries. *2011 Charlotte Sports Medicine Symposium*, Charlotte, NC (June 4)
3. **Oyama S.** Linking physical characteristics with upper extremity injuries in overhead athletes. *2010 Charlotte Sports Medicine Symposium*, Charlotte, NC (June 5)

Local Meetings

1. **Oyama S.** Detecting alteration of movement patterns using inertial measurement unit. iPerform Center for Assistive Technologies to Enhance Human Performance UTSA/UTHSA Site Planning Meeting, San Antonio, TX (January 31st, 2017)
2. **Oyama S.** Use of Motion Analysis to Identify Biomechanical Injury Risk Factors. National Science Foundation Computer Research Infrastructure Workshop, Arlington, TX (May 1st, 2015)

FUNDING

Pending

1. Giambini H and **Oyama S** (\$674,595) Non-invasive quantitative assessment of risk factors for overuse injury-prevention in young baseball pitchers: National Institute of Health, Clinical Observational Studies in Musculoskeletal, Rheumatic, and Skin Diseases (Submitted July 2020)
Role: Co-Principal Investigator

Current Research Support

1. **Oyama S** (\$55,973) Effects of trunk strengthening program on pitching biomechanics in adolescent baseball pitchers: 2018 National Athletic Trainer's Association Research and Education Foundation General Grants Program.
Role: Principal Investigator

Previous Research Support

1. Subramanian SK, Bluhm DL, White CL, Birnbaum LA, Neeley JW, **Oyama S** (\$47,750) The DESIGNER study: Post-Stroke Depression – association with Genetics (Brain Derived Neurotrophic Factor) upper limb motor Impairment and amount of use of the upper limb: University of Texas Health Science Center, Center for Biomedical Neuroscience, Pilot Project grant (2017) Role: Co-Investigator
2. **Oyama S** (\$4,709) Detection of fatigue using a wearable sensor in baseball pitchers: COEHD Faculty Research Award (2016) Role: Principal Investigator
3. Wilmlink JG, Elam D, **Oyama S** (\$6,274) A Non-Invasive Elderly Sensor Platform: WiseWear Corporation (2016) Role: Co-Principal Investigator
4. **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
5. **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
6. 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

7. 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
8. **Oyama S.** (\$1,000) Scapular Kinematics during Shoulder Rehabilitation Exercises. School of Health and Rehabilitation Science Graduate Research Grant. (2006-2007)
Role: Principal Investigator
9. **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. Nability P, McGearly D, Jaramillo C, Houle T, **Oyama S** (\$300,000 / UTSA Sub award: \$17,980) Brief Massage Therapy for Post-Traumatic Headaches in Veterans: Department of Defense Peer Review Medical Research Program Clinical Trial Award,
Role: Co-Investigator
2. Neely L & **Oyama S.** Project AIMMS [Automatic Individualize Measurement with Microsensors for Severe behavior] (\$20,000): 2018 UTSA GREAT Grant
Role: Co-Principle Investigator
3. Wilmink JG, Elam D, **Oyama S** (\$40,901 Sub award to UTSA) A Non-Invasive Elderly Sensor Platform: National Science Foundation, Small Business Innovation Research Phase II
Role: Co-Investigator/Contractor
4. Bhounsule P, Jamshidi M, **Oyama S**, Land WM, Quarles 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
5. **Oyama S** Effects of Trunk Muscle Fatigue on Pitching Biomechanics: American College of Sports Medicine Clinical Sports Medicine Endowment.
Role: Principal Investigator
6. 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

7. **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
8. **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
9. 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
10. 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 Awarded

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

Doctoral Dissertation Advisement

- Gayani Samaraweera (UTSA, Computer Science, 2013-2016)
Movement alteration by latency manipulation in a virtual environment for users with multiple sclerosis (Dissertation committee member)

Master's Thesis Advisement

- John Paul Phillips (UTSA, Kinesiology, 2020 - Present)
Assessment of asymmetry in posture, neuromuscular function of trunk musculature, and balance in adolescent baseball pitchers
(Thesis committee chair)
- Brian Stephens (UTSA, Kinesiology, 2020 - Present)
The effects of center of pressure location during push off on ball velocity in adolescent baseball pitchers (Thesis committee chair)

- Montgomery Bertschy (UTSA, Kinesiology, 2019 - 2020)
Effectiveness of Daily Subjective Wellness Measurements Via Mobile Applications in Predicting Perceived Exertion and Training Load (Thesis committee member)
- Camilla Nolen (UTSA, Kinesiology, 2016 - Present)
Priming Bilateral Transfer: The Influence of Motor Priming During a Ball Tossing Task (Thesis committee member)
- Araceli Sosa (UTSA, Kinesiology, 2014 - 2016)
Evaluation of scapular kinematics during milking tasks (Thesis committee chair)
- Sonny Garcia (UTSA, Kinesiology, 2014 - 2015)
The effect of enhancing error detection capabilities on performance and learning (Thesis committee member)
- Emily Quatromoni (University of North Carolina, Athletic Training, 2014 - 2015)
Reliability of a Visual Observation Pitching Assessment in Adolescent Pitchers (Thesis committee member)
- Masi Soujoudi (UTSA, Kinesiology, 2012 - 2013)
The relationship between ground reaction force characteristics and ball speed (Thesis committee chair)
- Michael Garza (UTSA, Kinesiology, 2012 - 2013)
The effects of strength vs. endurance training on cardiac function and remodeling in post-myocardial infarction rats (Thesis committee member)
- Aashika Gandhi (UTSA, Kinesiology, 2012 - 2013)
The bilateral transfer of force control in a sequential task is affected by its intensity (Thesis committee member)
- Eric Lengas (University of North Carolina, Athletic Training, 2011 - 2012)
The effect of previous night's sleep quantity on clinical measurements of concussion (Primary doctoral student advisor)
- Robert Bonser (University of North Carolina, Athletic Training, 2011 - 2012)
The effect of foot type on star-excursion and time-to-boundary measures during single-leg balance tasks (Primary doctoral student advisor)
- Bonnie Virag (University of North Carolina, Athletic Training, 2011 - 2012)
Relationship between freestyle biomechanical errors and shoulder pain in elite competitive swimmers (Secondary doctoral student advisor)
- James Lisowski (University of North Carolina, Athletic Training, 2010 - 2011)

Contribution of biceps brachii on glenohumeral strength, muscle activation patterns
(Primary doctoral student advisor)

- Megan Pomoroski (University of North Carolina, Athletic Training, 2010 - 2011)
Ankle bracing and fatigue on time-to-boundary measurements with chronic ankle instability (Primary doctoral student advisor)
- Elizabeth Hibberd (University of North Carolina, Athletic Training, 2009 - 2010)
Effect of 6-week strengthening program on scapular stabilizer strength and scapular kinematics in division I collegiate swimmers (Primary doctoral student advisor)
- Veronica Aragon (University of North Carolina, Athletic Training, 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 (Primary doctoral student advisor)
- Justin Tatman (University of North Carolina, Athletic Training, 2008 - 2009)
Variations in range of motion characteristics between division I collegiate baseball and softball overhead athletes (Primary doctoral student advisor)
- Julianne Toler (University of North Carolina, Athletic Training, 2008 - 2009)
Alternative techniques to gain emergency airway access (Secondary doctoral student advisor)
- Sarah Vizza (University of North Carolina, Athletic Training, 2007 - 2008)
A prediction of SICK scapula syndrome from scapular stabilizer muscle activation analysis in overhead athletes (Primary doctoral student advisor)
- Candice Schucker (University of Pittsburgh, Rehabilitation Science, 2006 - 2007)
Evaluation of three on-the-field posterior shoulder stretches in collegiate baseball players (Primary doctoral student advisor)

Medical Student Research Mentoring

- Brittany Embry (University of Texas Health Science Center, 2013-2014)
Stroke Pattern Efficiency and Muscle Fatigue during Wheelchair Propulsion (Research mentor)

Undergraduate Honors Thesis Advisement

- Kylie Dugan (UTSA, Athletic Medicine, 2019-2020)
Upper limb rehabilitation strategies for stroke patients using virtual reality (Thesis committee Chair)
- Joshua Kuehne (UTSA, Athletic Medicine, 2016-2017)

The Evaluation of Repetitive Overhead Movements in Heating Ventilation and Air Conditioning Technicians (Thesis committee Chair)

- Audrey Ramirez (UTSA, Athletic Medicine, 2016-2017)
The Evaluation of Arm Movements in Manual Wheelchair Users using Inertial Measurement Unit (Thesis committee Chair)

Independent Study Advisement

- Rachael Taylor (UTSA, Kinesiology, 2015)
The biomechanics of a balanced seat (Faculty advisor)
- Benjamin Williams (UTSA, Kinesiology, 2014)
Relationship between wheelchair transfer and propulsion biomechanics and reports of shoulder pain (Faculty advisor)
- James Hernandez (UTSA, Kinesiology, 2014)
Assessment and training of neck and trunk muscle strength (Faculty advisor)
- Niki Vora (UTSA, Kinesiology, 2013)
Shoulder pain in manual wheelchair users (Faculty advisor)

Undergraduate Research Mentoring

- Edgar Garza (UTSA, Athletic Medicine, 2017-Present)
- Kylie Dugan (UTSA, Athletic Medicine, 2017- Present)
- Philip Light (UTSA, Athletic Medicine, 2017-18)
- Scott Matjeka (UTSA, Athletic Medicine, 2017-18)
- Ruben Asebedo (UTSA, Mechanical Engineering, 2017)
- Atenea Lopez (UTSA, Mechanical Engineering, 2017)
- Hannah Musser (UTSA, Athletic Medicine, 2016-2017)
- Gilbert Gomez (UTSA, Athletic Medicine, 2017)
- Stephan Brown (UTSA, Athletic Medicine, 2016)
- Angel Rodriguez (UTSA, Athletic Medicine, 2016)
- Dakota Williams (UTSA, Athletic Medicine, 2016)
- Ravina Patel (UTSA, Athletic Medicine, 2014)
- Chelsea Vasquez (UTSA, Athletic Medicine, 2015)
- Rebekah Campbell (UTSA, Athletic Medicine, 2014)
- Rebecca Smith (UTSA, Athletic Medicine, 2013)
- Matthew Sasse (UTSA, Athletic Medicine, 2013)

PROFESSIONAL MEMBERSHIPS/CERTIFICATIONS

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

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

Committee Activity:

2016 - Present National Athletic Trainer's Association Research and Education
Foundation Free Communications Committee (Member)

Journal Editorial Board:

2017 - Present Journal of Athletic Training

Journal Review Activities:

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

Textbook Review Activities:

2017	Prentice WE. The Elbow. In: Prentice WE. Principles of Athletic Training: a guide to evidence-based clinical practice. 16th ed. New York, NY: McGraw-Hill Education; 2017.
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Extramural Funding Grant Reviewer:

2017	Pac-12 Student-Athlete Health and Well-Being Grant Program
2016	University of Texas at San Antonio GREAT Grant
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

2019 - Present	UTSA College of Education and Human Development Academic Policy and Curriculum Committee, Chair (College committee)
2018 - Present	UTSA College of Education and Human Development Undergraduate Academic Council (College committee)
2017 - Present	Department of Kinesiology, Health, and Nutrition, Assistant Department Chair
2016 - 2019	UTSA College of Education and Human Development Academic Policy and Curriculum Committee (College committee)
2016 - Present	Department of Kinesiology, Health, and Nutrition, Academic Policy and Curriculum Committee, Chair (Department committee)
2017- 2018	UTSA Faculty senate, Curriculum Committee, Chair (University committee)

2016 - 2018	UTSA Faculty senate, Department representative (University committee)
2014 - 2016	Department of Kinesiology, Health, and Nutrition, Achievement and Recognition Committee, Chair (Department committee)
2013 - 2015	Department of Kinesiology, Health, and Nutrition, Secretary
2012 - 2014	College of Education and Human Development Scholarship committee
2013 - 2014	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

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 Department of Allied Health Science Research Forum
2010	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