

CURRICULUM VITAE

JONATHAN CHEN CHIANG SUM

January 15, 2022

I. PERSONAL INFORMATION

University address:

University of Southern California
Division of Biokinesiology and Physical Therapy
at the Ostrow School of Dentistry
1540 E. Alcazar Street, CHP 155
Los Angeles, California 90089-9006
Tel: (323) 442-2900
Fax: (323) 442-1515

Email: sum@pt.usc.edu

Faculty Profile URL:

<https://pt.usc.edu/about-usc-biokinesiology-and-physical-therapy/faculty-directory-n-z/jonathan-sum-pt-dpt-ocs-scs/>

Division URL: <http://pt.usc.edu/>

Clinic address:

USC Physical Therapy - HSC
1640 Marengo Street, ste. 102
Los Angeles, California 90033
Office: (323) 865-1200
Fax: (323) 865-1258

Clinical Services URL: <https://pt.usc.edu/patient-care/>

Education

2011-12	Evidence Based Practice Fellowship Division of Biokinesiology and Physical Therapy University of Southern California, Los Angeles, California
2002-05	Doctor of Physical Therapy Division of Biokinesiology and Physical Therapy University of Southern California, Los Angeles, California
1997-2001	Bachelors of Science, Kinesiology Dornsife College of Letters, Arts, and Sciences University of Southern California, Los Angeles, California

Academic Appointments

5/21-present	Associate Professor of Clinical Physical Therapy Division of Biokinesiology and Physical Therapy University of Southern California Los Angeles, California
--------------	---

3/13-5/21 Assistant Professor of Clinical Physical Therapy
Division of Biokinesiology and Physical Therapy
University of Southern California
Los Angeles, California

2/06-3/13 Instructor of Clinical Physical Therapy
Division of Biokinesiology and Physical Therapy
University of Southern California
Los Angeles, California

Administrative Appointments

7/19-present Director
USC Physical Therapy Upper Extremity Athlete Fellowship
Division of Biokinesiology and Physical Therapy
University of Southern California
Los Angeles, California

1/10-5/20 Clinic Director
USC Physical Therapy - HSC
Los Angeles, California

11/09-8/10 Interim Center Coordinator for Clinical Education
USC Physical Therapy - HSC
Los Angeles, California

8/07-1/10 Volunteer Internship Program Coordinator
USC Physical Therapy - HSC
Los Angeles, California

Other Previous Employment

8/07-12/07 Staff Physical Therapist
Fortanasce & Associates Physical Therapy
Arcadia, California

6/05-2/06 Staff Physical Therapist
Physiotherapy Associates Scottsdale Sports Clinic
Scottsdale, Arizona

Honors & Awards

2018 Founders' Award
American Society of Shoulder and Elbow Therapists

2005 Orthopedic Section: Outstanding Physical Therapy Student
American Physical Therapy Association

2005 Minority Scholarship Award for Academic Excellence
American Physical Therapy Association

- 2005 Order of the Golden Cane Award: Outstanding accomplishments in academic coursework, clinical practice, and scientific research
Division of Biokinesiology and Physical Therapy
University of Southern California
- 2005 Kathleen Bice Award: Service to the profession of physical therapy
Division of Biokinesiology and Physical Therapy
University of Southern California
- 2004 Helen J. Hislop Award: Support in vision and excellence in physical therapy
Division of Biokinesiology and Physical Therapy
University of Southern California

Professional Memberships & Positions

- 2010-present American Society of Shoulder and Elbow Therapists (ASSET)
10/21-present President, Elected
10/20-11/21 President-Elect, Elected
10/20-11/21 Chair, Membership Committee, Elected
10/20-11/21 Chair, Bylaws Committee, Elected
10/16-10/20 Chair, Development Committee, Appointed
10/17-10/18 Secretary/Treasurer, Elected
10/16-10/17 Secretary/Treasurer-Elect, Elected
10/14-10/16 Member-At-Large, Elected
Membership Committee Member
10/13-10/17 Research Committee Member, Appointed
Evidence-Based Practice Subsection Member, Appointed
- 2021-present American Baseball Biomechanics Society
- 2018-present European Society for Shoulder and Elbow Rehabilitation (EUSSER)
- 2002-present American Physical Therapy Association
San Gabriel Valley District, California Chapter
Academy of Orthopaedic Physical Therapy, Member
American Academy of Sports Physical Therapy, Member
Shoulder Special Interest Group, Member
- 7/09-7/10 Assembly Representative, Elected
San Gabriel Valley District, California Chapter
American Physical Therapy Association
- 7/08-7/10 Continuing Education Committee, Appointed
San Gabriel Valley District, California Chapter
American Physical Therapy Association
- 7/07-7/09 Nominating Committee, Elected
San Gabriel Valley District, California Chapter

American Physical Therapy Association

- 2004 Physical Therapy Multicultural Leadership Alliance
Division of Biokinesiology and Physical Therapy
University of Southern California
- 2003 Student Delegate Representative
Greater Los Angeles District, California Chapter
American Physical Therapy Association
- 2002-2004 Student APTA Class Representative
Division of Biokinesiology and Physical Therapy
University of Southern California
American Physical Therapy Association
- 2002-2004 APTA Student Liaison, Student Assembly
American Physical Therapy Association
- 2003-2006, 2011 American Academy of Orthopedic Manual Physical Therapists
- 2004-2011 National Strength and Conditioning Association
- 2007-2008 Performing Arts Medical Association

Licenses & Certifications

- 10/19-present Personalized Blood Flow Restriction Certification
Owens Recovery Science
- 1/10-present APTA Credentialed Clinical Instructor
American Physical Therapy Association
- 8/10-present Board Certified Clinical Specialist, Sports Physical Therapy
Re-Certified, 2020
American Board of Physical Therapy Specialties
American Physical Therapy Association
- 12/09-present Emergency Medical Response Certification, American Red Cross
- 8/08-present Board Certified Clinical Specialist, Orthopedic Physical Therapy
Re-Certified, 2018
American Board of Physical Therapy Specialties
American Physical Therapy Association
- 3/06-present Physical Therapist, PT 32686, Physical Therapy Board of California
- 5/05-8/06 Physical Therapist, #6854, Arizona State Board of Physical Therapy
- 2003-2014 Certified Strength and Conditioning Specialist

National Strength and Conditioning Association

2002-present Basic Life Support for Healthcare Worker and CPR/AED Certification
American Heart Association

II. SCHOLARLY ACTIVITY

Peer-Reviewed Publications

1. Michener LA, Barrack AJ, Liebeskind BY, Zerega RJ, **Sum JC**, Crotin RL, Plummer HA. Shoulder external and internal rotation strength profiles in professional baseball players: effects of player position and geographic origin. *Int J Sports Phys Ther.* 2021;16(4):1126-1134.
2. Zipser MC, Plummer HA, Kindstrand N, **Sum JC**, Li B, Michener LA. Hip Abduction Strength: Relationship to Trunk and Lower Extremity Motion During A Single-Leg Step-Down Task in Professional Baseball Players. *Int J Sports Phys Ther.* 2021;16(2):342-349.
3. Zipser MC, **Sum JC**, Wilcox A. Little leaguer's shoulder. *J Orthop Sports Phys Ther.* 2018;48(1):51.
4. Plummer, HA, **Sum JC**, Pozzi F, Varghese R, Michener LA. Observational Scapular Dyskinesia: known-groups validity in patients with and without shoulder pain. *J Orthop Sports Phys Ther.* 2017;47(8):530-7.
5. Wu B, Lorenzana D, Badash I, Berger M, Lane C, **Sum JC**, Hatch GF, Schroeder ET. Perioperative testosterone supplementation increases lean mass in healthy men undergoing anterior cruciate ligament reconstruction: a randomized controlled trial. *Orthop J Sports Med.* 2017;5(8):1-9.
6. Skinner C, Franklin S, Chang J, **Sum J**, Groshen S, Hatch G. Demographics, activity level, and shoulder health history of populations participating in CrossFit: a descriptive analysis. *Austin J Orthopade & Rheumatol.* 2017;4(2):1052.
7. Tilson JK, Mickan S, R Howard, **Sum JC**, Zibell M, Cleary L, Mody B, Michener LA. Promoting physical therapists' use of research evidence to inform clinical practice: part 3 – long term feasibility of the PEAK program. *BMC Med Educ.* 2016; 16(1):144.
8. Cole S, Sanderson T, McNeill BT, **Sum JC**. A Proposal for Functional Screening of the Throwing Kinetic Chain in Baseball Pitchers to assess Shoulder and Elbow Injury Risk. *Sport Exerc Med Open J.* 2015;1(5):151-8.
9. Riva SS, **Sum JC**, Hatch GF. Functional movement analysis in the differential diagnosis of a patient with a posterolateral corner knee injury. *Sport Exerc Med Open J.* 2015;1(2):47-53.
10. Hawkins AP, **Sum JC**, Kirages D, Sigman E, Sahai-Srivastava S. Pelvic osteomyelitis presenting as groin and medial thigh pain: a resident's case problem. *J Orthop Sports Phys Ther.* 2015;45(4):306-15.
11. Wu B, Berger M, **Sum JC**, Hatch GF, Schroeder ET. Randomized control trial to evaluate the effects of acute testosterone administration in men on muscle mass, strength, and physical function following ACL reconstructive surgery: rationale, design, methods. *BMC Surg.* 2014;14(102).
12. Tilson JK, Mickan S, **Sum JC**, Zibell M, Dylla JM, Howard R. Promoting physical therapists' use of research evidence to inform clinical practice: part 2 – a mixed methods evaluation of the PEAK program. *BMC Med Educ.* 2014;14(1):126.
13. **Sum JC**, Omid R. Superior labrum anterior to posterior tear. *J Orthop Sports Phys Ther.* 2012;42(12):1050.
14. **Sum JC**, Hatch GF. Osteochondritis Dissecans. *J Orthop Sports Phys Ther.* 2011;41(10):797.

15. Hensley CP, **Sum J**. Physical therapy intervention for a former power lifter after arthroscopic microfracture procedure for grade IV glenohumeral chondral defects. *Int J Sports Phys Ther*. 2011 Mar;6(1):10-26.
16. Popovich JM Jr, **Sum JC**, Poppert EM, Colletti PM, Kulig K. Axial loading of the lumbar spine in persons with acute low back pain: a kinematic analysis. *Clinical Kinesiology: Journal of the American Kinesiotherapy Association*, vol.59, no.1, 2005.

Research Publications / Presentations at Scientific Meetings (abstracts)

1. Barrack AJ, Michener LA, Liebeskind BY, Zerega RJ, **Sum JC**, Crotin RL, Plummer HA. Rotational Shoulder Strength Profiles In North And Latin American Professional Baseball Pitchers And Position Players. Annual Meeting, American College of Sports Medicine, Virtual, 2021.
2. Stirling BD, Baek L, **Sum JC**, Michener LA, Barrack AJ, Tate AR. Shoulder Pain in Competitive Swimmers: A Multisite Survey Study. Platform Presentation, Combined Sections Meeting, American Physical Therapy Association, Virtual, 2021.
3. Baek L, Stirling BD, **Sum JC**, Barrack AJ, Michener LA, Tate AR. US Swimmers' Shoulder Pain and Coaches' Experience, Education, and Views on Injury Prevention. Platform Presentation, Combined Sections Meeting, American Physical Therapy Association, Virtual, 2021.
4. **Sum JC**, Omid R. Rehabilitation following arthroscopic superior capsule reconstruction. Platform Presentation, Annual Meeting, American Society of Shoulder and Elbow Therapists, Virtual Meeting, Oct 2, 2020.
5. Tate AR, **Sum JC**, Stirling B, Baek L, Michener LA, Barrack AJ. Multicenter survey investigating United States youth competitive swimmers' shoulder pain disability and training, and their coaches' experience, education and views on shoulder injury prevention. Platform Presentation, Annual Meeting, American Society of Shoulder and Elbow Therapists, Virtual Meeting, Oct 2, 2020.
6. Matsuno K, Dionio K, Seto E, Chavez A, Schroeder ET, **Sum JC**. Effects of Recovery Sleeves on Professional Basketball Players. Poster Presentation, USC Division of Biokinesiology and Physical Therapy Jacqueline Perry Research Day, Los Angeles, California, Apr 18, 2019.
7. Stirling B, **Sum JC**, Knight T. Effects of Incrediwear®. Recovery Leg Sleeves on Time-Loss for Major League Soccer Players. Poster Presentation, Combined Sections Meeting, American Physical Therapy Association, Washington DC, Jan 26, 2019.
8. Zipser MC, Plummer H, Hostetter G, Li B, **Sum JC**, Michener LA. Hip abduction strength relationship to single-leg step down task in professional baseball players. Poster Presentation, Combined Sections Meeting, American Physical Therapy Association, Washington DC, Jan 26, 2019.
9. Pozzi F, Plummer H, **Sum JC**, McNeill BT, Chow K, Winstein CL, Michener LA. Functional recovery of patients with full thickness rotator cuff tears discharged from physical therapy. Poster Presentation, Combined Sections Meeting, American Physical Therapy Association, Washington DC, Jan 26, 2019.
10. Stirling B, **Sum JC**, Knight T. Effects of Incrediwear®. Recovery Leg Sleeves on Time-Loss for Major League Soccer Players. Poster Presentation, Annual Meeting, California Physical Therapy Association, Santa Clara, California, Sept 22, 2018.
11. Stirling B, **Sum JC**, Knight T. Effects of Incrediwear®. Recovery Leg Sleeves on Time-Loss for Major League Soccer Players. Poster presentation, USC Division of Biokinesiology and Physical Therapy Jacqueline Perry Research Day, Los Angeles, California, Apr 10, 2018.
12. Pozzi F, Plummer H, **Sum JC**, McNeill BT, Chow K, Itamura JM, Michener LA. Feasibility and Efficacy of a Closed Chain Strengthening Protocol for Patients with Full Thickness Rotator Cuff

- Tears. Platform Presentation, Combined Sections Meeting, American Physical Therapy Association, New Orleans, Louisiana, Feb 22, 2018.
13. **Sum JC**. Rehabilitation following Superior Capsular Reconstruction. Session presentation, USC Shoulder Update 2018, USC Division of Biokinesiology and Physical Therapy, Los Angeles, California, Feb 3, 2018.
 14. **Sum JC**. Evaluation of the Overhead Athlete. Session presentation, USC Science of Throwing and Hitting, USC Division of Biokinesiology and Physical Therapy, Los Angeles, California, Feb 2, 2018.
 15. McNeill BT, **Sum JC**, Pozzi F, Plummer H, Michener LA. Feasibility and Efficacy of a Closed Chain Strengthening Protocol for Patients with Full Thickness Rotator Cuff Tears. Platform Presentation, Annual Meeting, American Society of Shoulder and Elbow Therapists, New Orleans, Louisiana, Oct 14, 2017.
 16. Stirling B, **Sum JC**, Ayoob K, Baek L, Bryant M, Chang J, Curran J, Hankard J, Weedman C, Yim C, Zeiger B. Prevalence of shoulder pain in United States youth competitive swimmers. Research Podium Presentation, Annual Meeting, California Physical Therapy Association, San Diego, California, Sept 16, 2017.
 17. **Sum JC**, Reeves L. Pain Rehabilitation: Physical & Occupational Therapies. Session presentation, Keck Medicine of USC 8th Annual Pain Management Symposium, Universal City, California, Aug 11, 2017.
 18. Badash BA, Wu B, Berger M, Lorenzana D, Lane C, **Sum JC**, Hatch GF, Schroeder ET. Testosterone supplementation increases lean mass in men undergoing anterior cruciate ligament reconstruction: a randomized controlled trial. Abstract/Presentation. Annual Meeting. American Orthopaedic Society for Sports Medicine, Toronto, Canada, July 21, 2017.
 19. Hankard J, **Sum JC**, Tate AR, Blubello A, Blum B, Bryant M, Chang J, Curran J, Peterson A, Weedman C, Yim C, Zeiger B. Prevalence of shoulder pain in United States youth competitive swimmers. Poster Presentation, Combined Sections Meeting, American Physical Therapy Association, San Antonio, Texas, Feb 17, 2017.
 20. **Sum JC**. Latarjet vs. Bankart: Outcomes and Rehab. Session presentation, USC Shoulder Update 2016, USC Division of Biokinesiology and Physical Therapy, Los Angeles, California, Sep 10, 2016.
 21. **Sum JC**, Uyeshiro A. Pain Rehabilitation: Physical & Occupational Therapies. Session presentation, Keck Medicine of USC 7th Annual Pain Management Symposium, Universal City, California, Aug 19, 2016.
 22. Hankard J, Bryant M, Zeiger B, Yim C, Weedman C, Curran J, Tate AR, **Sum JC**. Prevalence of shoulder pain and disability in youth competitive swimmers. Poster presentation, USC Division of Biokinesiology and Physical Therapy Jacqueline Perry Research Day, Los Angeles, California, Apr 14, 2016.
 23. Hankard J, Bryant M, Zeiger B, Yim C, Weedman C, Curran J, Tate AR, **Sum JC**. Prevalence of shoulder pain and disability in youth competitive swimmers. Poster presentation, USC Ostrow School of Dentistry Research Day, Los Angeles, California, Mar 9, 2016.
 24. Selby-Silverstein L, Bose S, Moore MG, **Sum JC**, Tilson JK. Electronic Health Records and EBP: Maximizing Knowledge Translation. Session Presentation, Evidence Based Practice Special Interest Group, Research Section, Combined Sections Meeting, American Physical Therapy Association, Anaheim, California, Feb 20, 2016.
 25. Hawkins AP, **Sum JC**, Kirages D, Sigman E, Sahai-Srivastava S. Pelvic osteomyelitis presenting as groin and medial thigh pain: a resident's case problem. Poster presentation, Combined Sections Meeting, American Physical Therapy Association, Anaheim, California, Feb 18, 2016.

26. **Sum JC**, Tate AR, Chang J, Wyberg G. Prevalence of shoulder pain and disability in youth male and female swimmers: a multicenter survey. Platform presentation, Annual Meeting, American Society of Shoulder and Elbow Therapists, Asheville, North Carolina, Oct 9, 2015.
27. Chang J, Skinner CB, **Sum JC**, Nash JK, Koshkaryan G, Hatch GF, Ji L, Groshen SL. Pre-participation fitness characteristics of participants joining Crossfit. Poster presentation, Annual Meeting, California Physical Therapy Association, Pasadena, California, Sep 27, 2015.
28. Merriam P, Sniderman M, **Sum JC**, Uyeshiro A, Weinstein FF. Case study discussion / Panel of interdisciplinary pain experts. Panel presentation, Keck Medicine of USC 6th Annual Pain Management Symposium, Pasadena, California, Aug 20, 2015.
29. Axtell S, **Sum JC**, Uyeshiro A. Pain rehabilitation: psychology, physical therapy, and occupational therapy. Panel presentation, Keck Medicine of USC 6th Annual Pain Management Symposium, Pasadena, California, Aug 21, 2015.
30. Dexheimer JD, Orozco SP, Wu B, **Sum JC**, Gilbert PK, Vallejo AF, Schroeder ET. Anti-Gravity Treadmill Walking in Acute Rehabilitation of Total and Partial Knee Replacement Patients: 1365 Board# 158 May 28, 9: 00 AM-10: 30 AM. *Medicine & Science in Sports & Exercise*. 2015 May 1;47(5S):363-4.
31. **Sum JC**, Skinner CB, Nash JK, Koshkaryan G, Hatch GF, Ji L, Groshen SL. Risk factors associated with shoulder injury in high-intensity exercise. Poster presentation, USC Division of Biokinesiology and Physical Therapy Jacqueline Perry Research Day, Los Angeles, California, Apr 16, 2015.
32. **Sum JC**, Tate AR, Chang J, Wyberg G, Zeiger B. Prevalence of shoulder pain and disability in youth male and female competitive swimmers: a multicenter survey. Poster presentation, USC Division of Biokinesiology and Physical Therapy Jacqueline Perry Research Day, Los Angeles, California, Apr 16, 2015.
33. **Sum JC**, Skinner CB, Nash JK, Koshkaryan G, Hatch GF, Ji L, Groshen SL. *Risk factors associated with shoulder injury in high-intensity exercise*. Poster presentation, USC Ostrow School of Dentistry Research Day, Los Angeles, California, Mar 25, 2015.
34. **Sum JC**, Tate AR, Chang J, Wyberg G, Zeiger B. *Prevalence of shoulder pain and disability in youth male and female competitive swimmers: a multicenter survey*. Poster presentation, USC Ostrow School of Dentistry Research Day, Los Angeles, California, Mar 25, 2015.
35. Dayal R, Merriam P, Sniderman M, **Sum JC**, Uyeshiro A, Weinstein FF. *Pain management case studies: Panel discussion*. Panel presentation, Keck Medicine of USC 5th Annual Pain Management Symposium, Los Angeles, California, Aug 21, 2014.
36. Wu B, Berger M, **Sum JC**, Hatch GF, Schroeder ET. *Acute vs. chronic knee injury – Basketball*. Platform presentation, 61st Annual Meeting, American College of Sports Medicine, Orlando, Florida, May 28, 2014.
37. **Sum JC**, Skinner CB, Kim SC, Kelso AS, Hatch GF, Groshen SL. *Pilot study to investigate risk factors associated with shoulder injury in athletes involved with CrossFit*. Poster presentation, USC Division of Biokinesiology and Physical Therapy Jacqueline Perry Research Day, Los Angeles, California, Apr 17, 2014.
38. **Sum JC**, McGuinness A, Hatch GF. *Range of motion and self-reported outcome measures following latissimus dorsi tendon transfer for irreparable rotator cuff tear using a post-operative physical therapy protocol: A case series*. Platform presentation, Annual Meeting, American Society of Shoulder and Elbow Therapists, Las Vegas, Nevada, Oct 13, 2013.
39. **Sum JC**, Fitzgerald K, Haile J, McNeill B, Michener LA. *Relevance of scapular dyskinesis in patients with shoulder pain*. Poster presentation, USC Division of Biokinesiology and Physical Therapy Jacqueline Perry Research Day, Los Angeles, California, Apr 11, 2013.

40. **Sum JC**, Fitzgerald K, Haile J, McNeill B, Michener LA. *Relevance of scapular dyskinesia in patients with shoulder pain*. Poster presentation, USC Ostrow School of Dentistry Research Day, Los Angeles, California, Feb 20, 2013.
41. Tilson JK, Mickan S, **Sum JC**, Zibell M, Howard R, Dylla J. *Impact and implications of a multi-faceted, participant driven, EBP educational intervention*. Evidence 2011, London, England, Oct 2011.
42. Woodward SC, Hayden EM, **Sum JC**, Fresen JL, Dylla JM, Ying JC. *Physiologic characteristics of jazz guitarists*. Platform presentation, Medical Problems of Performing Artists Annual Symposium, Performing Arts Medicine Association, Snowmass, Colorado, Jul 2010.
43. **Sum JC**. *Latissimus dorsi tendon transfer for massive irreparable rotator cuff tears: indications and post-operative rehabilitation considerations*. Poster presentation, Combined Sections Meeting, American Physical Therapy Association, Las Vegas, Nevada, Feb 2009.
44. **Sum JC**, Ellenbecker TS, Bailie DS. *Range of motion, rotator cuff muscular strength, and functional self-report following Promos shoulder arthroplasty vs. Copeland shoulder arthroplasty*. Platform presentation, Combined Sections Meeting, American Physical Therapy Association, San Diego, California, Feb 2006.
45. **Sum JC**, Popovich JM, Kulig K, Colletti P. *The role of axial loading in early diagnosis of lumbar disc injury: a biomechanical interpretation using magnetic resonance imaging*. Poster presentation, Combined Sections Meeting, American Physical Therapy Association, New Orleans, Louisiana, Feb 2005.

Chapters

1. **Sum JC**, Michener LA. *Rehabilitation for Rotator Cuff Disorders*. Chapter. Resident Curriculum. American Academy of Orthopedic Surgery. *IN PRESS*.
2. **Sum JC**, Michener LA. *Evaluation and Treatment of the Scapula in Overhead Athletes*. Chapter. Current Concepts Independent Study Course. American Academy of Sports Physical Therapy, American Physical Therapy Association. *IN PRESS*.

Journal Papers Reviewed

- 2021 Journal of Sport Rehabilitation (1)
2021 Journal of Shoulder and Elbow Surgery (1)
2021 International Journal of Sports Physical Therapy (1)
2020 Journal of Shoulder and Elbow Surgery (2)
2016 International Journal of Sports Physical Therapy
2012 Journal of Orthopedic and Sports Physical Therapy
2011 Journal of Orthopedic and Sports Physical Therapy

Grant Funding

- 2020 *Ability of Oral Steroid (Oxandrolone) to Halt Fatty Infiltration and Aid Rotator Cuff Healing: A Double-Blind, Randomized Clinical Trial (HS-17-00272)*
Funding Agency: Keck School of Medicine Dean's Pilot Funding Program.
Dates of funding: February 2020 – February 2021
Total Budget: Total: \$40,000
Name of PI: Alex Weber, MD
Role: Research Coordinator: Physical Therapy Protocol-Development and Adherence to Protocol
- 2017 *Risk Factors Associated with Upper Extremity Injuries in Baseball (HS-17-00056)*
Major League Baseball Research Grant

Funding Agency: Major League Baseball Research Fund

Dates of funding: 2017 - 2019

Total Budget: Total: \$47,677

Name of PI: Lori Michener, PhD, PT, ATC

Role: Co- I

2015 *Rehabilitation of Patients with Full-thickness Rotator Cuff Tears: Planning and Pilot Study for Feasibility and Efficacy (HS-15-00771)*

Funding Agency: Private Donor

Dates of funding: 2015-2017

Total Budget: Total: \$500,000+

PI: Michener LA

Role: Co-Investigator

2012 *The Effects of Acute Testosterone Administration in Men on Muscle Mass, Strength, and Physical Function Following ACL Reconstructive Surgery (HS-10-00593)*

Sandy Kirkley Clinical Outcome Research Grant

Funding Agency: American Orthopedic Society for Sports Medicine

Total Budget: Total: \$19,500

CTSI Grant

Funding Agency: Southern California Clinical and Translational Science Institute

Total Budget: Total: \$30,000

Division of Biokinesiology and Physical Therapy Seed Grant

Funding Agency: Division of Biokinesiology and Physical Therapy

Total Budget: Total: \$15,000

PI: Schroeder ET

Role: Co-Investigator

Invited Lectures/ Keynote Addresses/ Media Appearances

1/15/22 PocketPath Rehab & Identifying Risk Factors in Throwers
Invited Speaker
PWS Coaches Seminar
Upland, CA

12/10/22 Pitching Mechanics: A Clinical Perspective
Invited Expert Speaker
ATI UE Athlete Fellowship Speaker Series

3/26/21 Combined Panel Discussion: DPTs in Sports Medicine / Treating an Athletic
Population
Invited Expert Panelist
Northwestern University AAOMPT Sports SIG Meeting
Department of Physical Therapy and Human Movement Science
Northwestern University

2/24/21 Podcast: Understanding the role of Physical Therapy in Pain Management
Pain Know-How: by Steven Richeimer MD

Keck School of Medicine
University of Southern California
<https://anchor.fm/pain-know-how/episodes/Understanding-the-role-of-Physical-Therapy-in-pain-management-eqdj5v>

- 10/17/19 Combined Panel Discussion: Return to Sports for the Throwing Athlete
Invited Expert Panelist
2019 American Society of Shoulder and Elbow Therapists Annual Meeting
New York, New York
Moderator: W. Benjamin Kibler, MD
Samer S. Hasan MD; Felix H. (Buddy) Savoie MD; John E. (Jed) Kuhn MD;
Rebecca N. Dickinson PT, DPT; Aaron D. Sciascia PhD, LAT, ATC, PES;
Jonathan C. Sum, PT, DPT, OCS, SCS
- 10/25/18 Physical Therapy...Personalized
Invited Lecturer
2018 Research Coordinators Education
Keck School of Medicine
University of Southern California
- 9/18/18 Physical Therapy in Pain Management
Invited Lecturer
2018-19 USC Pain Management Lecture Series for Pain Fellowship
Keck School of Medicine
University of Southern California
- 3/1/18 Podcast Musician and Injuries Interview
PE for Musicians Blog with Karen Hall
https://musicianhealthresource.com/blogs/blog/interview-with-dr-jonathan-sum-dpt-ocs-scs-physician-at-usc-musician-rehabilitation?_pos=1&_sid=ef4413732&_ss=r
https://soundcloud.com/musicianhealthresource/interview-with-dr-sum-dpt-ocs-scs-musician-rehabilitation?utm_source=clipboard&utm_medium=text&utm_campaign=social_sharing
- 1/9/18 Physical Therapy in Pain Management
Invited Lecturer
2017-18 USC Pain Management Lecture Series for Pain Fellowship
Keck School of Medicine
University of Southern California
- 12/8/17 Rehabilitation Tricks for the Unstable Shoulder
Invited Faculty, Shoulder Surgery
2017 Orthopedic Summit Evolving Techniques
Las Vegas, Nevada
- 12/9/17 Postoperative Rehab of the Throwing Athlete: What I've Learned in 12 Years
Invited Faculty, Advanced Practitioner Summit

2017 Orthopedic Summit Evolving Techniques
Las Vegas, Nevada

- 12/9/17 Advanced Practitioner Summit: Case Presentations
Invited Faculty Panel Member
2017 Orthopedic Summit Evolving Techniques
Las Vegas, Nevada
Moderator: Ellen Shanley, PhD, PT, OCS
Todd S. Ellenbecker, PT, DPT, MS; Spero G. Karas, MD;
W. Benjamin Kibler, MD; Dirk Jacob Kokmeyer, PT, DPT, SCS, COMT;
J. Martin Leland III, MD; Bradford O. Parsons, MD;
Jonathan C. Sum, PT, DPT, OCS, SCS
- 10/24/17 Print Interview with USC Annenberg Media
Triple digit heat doesn't stop Dodgers fans from watching the game
<https://www.uscannenbergmedia.com/2017/10/24/triple-digit-heat-doesnt-stop-dodgers-fans-from-watching-the-game/>
<https://drive.google.com/file/d/1gegIEFc5C0ieYA3FukQZkb1QQShsjGph/view?usp=sharing>
- 10/4/17 Print Interview with USC Press Room
The final stretch: MLB postseason puts players' endurance to the test
<https://pressroom.usc.edu/the-final-stretch-mlb-postseason-puts-players-endurance-to-the-test/>
<https://drive.google.com/file/d/1tmicM8dKts5wxuzS7KuqA9xjx5NYxYJD/view?usp=sharing>
- 7/25/17 Print Interview with Los Angeles Times
There still is no timetable for Clayton Kershaw's return to the mound for the Dodgers. Bill Skaikin, Los Angeles Times, National Baseball Reporter
<https://www.latimes.com/sports/dodgers/la-sp-dodgers-report-20170725-story.html>
<https://drive.google.com/file/d/1Dhw5OxDMellLQuiLDkWyP9lj8df5jHvs/view?usp=sharing>
- 1/22/15 Radio Interview on The Drive with George Wrihster and Brett Winterble,
The Beast 980, KFWB 980 AM
Topic: Kobe Bryant tears his rotator cuff
<https://drive.google.com/file/d/1ekSrTdcRwgo08OV87qCPwb3R0Cig4sms/view?usp=sharing>
- 3/6/14 Radio Interview on Airtalk with Larry Mantle, KPCC 89.3 FM
Topic: Are CrossFit workouts too dangerous for the average person?
<https://drive.google.com/file/d/1y79faQIAdvNwZORYh2V0Pbv-ALqN8wuT/view?usp=sharing>
- 1/9/14 Television Interview on KABC 7: Fitness Coach Lori Corbin

Topic: Cheerleading Injuries

https://drive.google.com/file/d/1j3TGIwSHBDM9VQuyuNE5vz2NryjI_Rt/view?usp=sharing

- 11/20/13 Repetitive Overuse Injuries in Youth
Invited Lecturer
Partnership for Awareness
San Marino, California
- 9/13, 9/14, 8/15,
8/16, 8/17 Pitching Mechanics/Legs and Trunk/Throwing by Positions
Invited Lecturer
Far East Baseball Exchange Program
University of Southern California
- 11/6/13 Television Interview on KABC 7: Fitness Coach Lori Corbin
Topic: Swimmer's Shoulder
<https://drive.google.com/file/d/1AiEuNUc59C8pa8MugAw-7DGBIvRjGPOQ/view?usp=sharing>
- 11/13/12 Today in PT magazine article
Great Pains by Stephanie Stephens
Cited in print as expert opinion on Fibromyalgia
- 10/12 Dynamic Scapular Assessment
Invited Lecturer
Orthopedic Residency Reunion Meeting
USC Division of Biokinesiology & Physical Therapy
University of Southern California
- 10/11 Kinesiology Majors Club Career Information Meeting
Invited Lecturer
Department of Kinesiology, College of Health and Human Development
California State University, Northridge
- 4/11 Pre-Health Week 2011
Guest Panelist
Pre-Health Advisement Office
Dornsife College of Letters, Arts & Science
University of Southern California
- 7/09 Orthopedic Functional Outcomes
Invited Lecturer
San Gabriel Valley District Meeting, California Chapter
American Physical Therapy Association
- 3/07 Musculoskeletal Disorders of the Musician
Invited Lecturer
Music Education Department, Thornton School of Music

University of Southern California

10/09, 3/08, 3/07, 4/06 Kinesiology Club Career Information Meeting
Invited Lecturer
Dornsife College of Letters, Arts, & Science
University of Southern California

University Courses Developed & Taught

1/21-present Course Co-Director
PAIN 720 Physical & Occupational Therapies
(1 unit per semester, 8 students)
Program: Masters in Pain Medicine
This course discusses different Physical and Occupational Therapy techniques for assessing and treating chronic pain
Keck School of Medicine & Ostrow School of Dentistry
University of Southern California

10/20-present Course Instructor
PT 606 Clinical Imaging
(30 contact hours per fall semester, 2 units, 12 graduate/professional students per section, taught 2 sections)
Division of Biokinesiology and Physical Therapy
University of Southern California

8/20-present Immersion Course Faculty
PT 640a Integrated Patient Management Clinical Skills
(30 contact hours per fall semester, 3 units, 6-10 graduate/professional students per section, shoulder module co-lead)
Division of Biokinesiology and Physical Therapy
University of Southern California

6/20 – present Course Instructor
PT 642a Integrated Patient Management, Fall Semester
(59 contact hours per fall semester, 24 graduate/professional students per section, taught 2 sections)
Division of Biokinesiology and Physical Therapy
University of Southern California

5/20 – present Hybrid Lead
PT 561e Evidence in Physical Therapist Practice – Health Systems
(25 contact hours per summer semester, 2 units, 12 graduate/professional students per section, taught 2 sections)
Division of Biokinesiology and Physical Therapy
University of Southern California

1/21 – present Residential Lead

- 1/20-4/20 Course Instructor
PT 566 Disorders of the Musculoskeletal System
(50 contact hours per spring semester, 3 units, 95+ graduate/professional students)
Division of Biokinesiology and Physical Therapy
University of Southern California
- 11/17 – present Guest Lecturer / Guest Laboratory Instructor
Knee Module
PT 630 Integrated Patient Management Clinical Skills
(4 contact hours per fall and spring semester, 4 units, 96 graduate/professional students)
Division of Biokinesiology and Physical Therapy
University of Southern California
- 7/14 - present Lead Lecturer / Laboratory Instructor
Pediatric/Adolescent Sports Module Co-Coordinator
PT 529 Lifespan Motor Control
(6 contact hours per spring semester, 3 units, 96 graduate/professional students)
Division of Biokinesiology and Physical Therapy
University of Southern California
- 4/09 - 4/20 Lead Lecturer / Lead Laboratory Instructor
Shoulder Module Coordinator
PT 621 Clinical Management of the Patient with Musculoskeletal Dysfunction
(10 contact hours per spring semester, 5 units, 96 graduate/professional students)
Division of Biokinesiology and Physical Therapy
University of Southern California
- 10/08 - 4/20 Lead Lecturer / Lead Laboratory Instructor
Shoulder Module Coordinator
PT 521 Basics of Patient Management
(9.5 contact hours per fall semester, 4 units, 96 graduate/professional students)
Division of Biokinesiology and Physical Therapy
University of Southern California
- 11/17 – 11/19 Laboratory Instructor
2/06-5/13 Musculoskeletal Examination
Introduction to Clinical Medicine
(4 contact hours per semester, 192 medical students)
Keck School of Medicine
University of Southern California
- 7/23/18 Guest Lecturer
Large Population Screening Assessments: Baseball
PT 599 Emerging Topics
(2 contact hours, 2 units, 100 graduate/professional students)
Division of Biokinesiology and Physical Therapy

University of Southern California

- 5/24/13 Guest Lecturer
Physical Therapy in MSK
Musculoskeletal System
(1 contact hour, 192 medical students)
Keck School of Medicine
University of Southern California
- 5/23/13 Guest Lecturer
Clinical Applications of the Spine
Musculoskeletal System
(1 contact hour, 192 medical students)
Keck School of Medicine
University of Southern California
- 7/12 Guest Panelist
PT 561e Evidence for Physical Therapists Practice
(2 contact hours, 2 units, 96 graduate/professional students)
Division of Biokinesiology and Physical Therapy
University of Southern California
- 5/11 Guest Lecturer
PT 530b Special Topics in Therapeutic Exercise
(2 contact hours, 2 units, 48 graduate/professional students)
Division of Biokinesiology and Physical Therapy
University of Southern California
- 1/08-5/09 Course Instructor
PT 621 Clinical Management of the Patient with Musculoskeletal Dysfunction
(10 contact hours per week, spring semester, 5 units, 96 graduate/professional students)
Division of Biokinesiology and Physical Therapy
University of Southern California

Continuing Education Teaching/Presentations

- 10/2/21 Baseball Didactic and Lab (6 contact hours)
USC Sports Residency Module
Division of Biokinesiology and Physical Therapy
University of Southern California, Los Angeles, California
- 2/13/21 Baseball Lab (3 contact hours)
USC Sports Residency Module
Division of Biokinesiology and Physical Therapy
University of Southern California, Los Angeles, California
- 2020 USC Sports Residency Seminar II (4 contact hours)
Pitching Mechanics, Pathologies Related to Throwing,

- Throwing Specific Exercises, Return to Sport
Division of Biokinesiology and Physical Therapy
University of Southern California, Los Angeles, California
- 2019 USC Upper Extremity Rotational Athlete (1.25 contact hours)
Upper Extremity/Lower Extremity/Core Assessments in Baseball
Return to Sport: Throwing
Division of Biokinesiology and Physical Therapy
University of Southern California, Los Angeles, California
- 2018 USC Sports Rehabilitation: Module II (4 contact hours)
Pitching Mechanics, Pathologies Related to Throwing,
Throwing Specific Exercises, Return to Sport
Division of Biokinesiology and Physical Therapy
University of Southern California, Los Angeles, California
- 2018 USC Shoulder Update 2018
Rehabilitation Following Superior Capsular Reconstruction (0.3 contact hours)
Division of Biokinesiology and Physical Therapy
University of Southern California, Los Angeles, California
- 2018 The Science of Throwing and Hitting Symposium
Evaluation of the Overhead Athlete (0.3 contact hours)
Division of Biokinesiology and Physical Therapy
University of Southern California, Los Angeles, California
- 2017 USC Sports Rehabilitation: Module II (4 contact hours)
Pitching Mechanics/Pathologies Related to Throwing
Pediatric Throwing Athlete, Return to Sport
Division of Biokinesiology and Physical Therapy
University of Southern California, Los Angeles, California
- 2016 USC Shoulder Update 2016
Latarjet vs. Bankart: Outcomes and Rehab (0.3 contact hours)
Division of Biokinesiology and Physical Therapy
University of Southern California, Los Angeles, California
- 2016 USC Sports Rehabilitation: Module II (4 contact hours)
Pitching Mechanics/Pathologies Related to Throwing
Pediatric Throwing Athlete
Division of Biokinesiology and Physical Therapy
University of Southern California, Los Angeles, California
- 2015 Evaluation and Treatment of Shoulder and Elbow Disorders: An evidence-based
approach for injuries and return to sport (6 contact hours each day)
Summit Professional Education
1/24/15 Redondo Beach, California
1/25/15 San Diego, California

- 2014
Shoulder Evaluation and Treatment for the Throwing Athlete: An evidence-based approach to managing pain, preventing injury, and returning to sport (6 contact hours each day)
Summit Professional Education
3/22/14 Bakersfield, California
3/24/14 Burbank, California
6/21/14 Spokane, Washington
6/22/14 Seattle, Washington
7/12/14 Tucson, Arizona
7/13/14 Phoenix, Arizona
8/9/14 Salt Lake City, Utah
8/10/14 Boise, Idaho
12/13/14 Eugene, Oregon
12/14/14 Portland, Oregon
- 9/15
USC Sports Rehabilitation: Module II (4 contact hours)
Pitching Mechanics/Pathologies Related to Throwing
Pediatric Throwing Athlete
Throwing Specific Exercises / Return to Sport
Division of Biokinesiology and Physical Therapy
University of Southern California, Los Angeles, California
- 9/14
USC Sports Rehabilitation: Module II (4 contact hours)
Pitching Mechanics/Pathologies Related to Throwing
Pediatric Throwing Athlete
Throwing Specific Exercises / Return to Sport
Division of Biokinesiology and Physical Therapy
University of Southern California, Los Angeles, California
- 8/13
USC Sports Rehabilitation: Module II (3 contact hours)
Pitching and the Lower Extremities and Trunk
Throwing Return to Sport Criteria
Throwing Specific Exercises
Division of Biokinesiology and Physical Therapy
University of Southern California, Los Angeles, California
- 4/12
USC Sports Rehabilitation: Module II (3 contact hours)
Softball Pitching
Positional Differences
Lower Extremity and Throwing
Division of Biokinesiology and Physical Therapy
University of Southern California, Los Angeles, California
- 9/08
Physical Therapy and Rehabilitation for the Elderly (1 contact hour)
USC School of Medicine, Continuing Medical Education
Suburban Medical Center, Paramount, California

- 6/08 Medical Problems of Musicians (1 contact hour)
USC School of Medicine, Continuing Medical Education
Verdugo Hills Hospital, Glendale, California
- 2007 The Relationship of the Cervical and Thoracic Spine in the Evaluation and
Treatment of the Shoulder (1 contact hour)
USC School of Medicine, Continuing Medical Education
6/07 Suburban Medical Center, Paramount, California
4/07 Verdugo Hills Hospital, Glendale, California
3/07 Olympia Medical Center, Los Angeles, California

III. ACADEMIC, ADMINISTRATIVE & SERVICE ACTIVITIES

Committee Activities

- 10/21-present APIFSA Communications Committee Member
Asian Pacific Islander Faculty and Staff Association
University of Southern California
- 8/20-present DARIC Student Support Subcommittee Member
Diversity, Anti-Racism, Inclusion, and Community Engagement
Division of Biokinesiology and Physical Therapy
University of Southern California
- 7/20-present APSAG Faculty Advisor
Asian Pacific Islander Student Affinity Group
Division of Biokinesiology and Physical Therapy
University of Southern California
- 6/20-present DPT Development Committee
Division of Biokinesiology and Physical Therapy
University of Southern California
- 10/19-present Continuing Education Committee
Division of Biokinesiology and Physical Therapy
University of Southern California
- 4/21-8/21 Equity, Diversity, Inclusion Curriculum Task Force
Division of Biokinesiology and Physical Therapy
University of Southern California
- 1/18-5/20 Division Level Management Team
Division of Biokinesiology and Physical Therapy
University of Southern California
- 1/12-5/20 Clinical Services Management Team
Division of Biokinesiology and Physical Therapy
University of Southern California

2012-14 Grateful Patient Program Steering Committee
Division of Biokinesiology and Physical Therapy
University of Southern California

8/06-9/14 Faculty Advisor, Gamma Epsilon Omega Fraternity
Department of Student Affairs, Office of Greek Life
University of Southern California

Mentoring

7/19-present Senior Fellowship Mentor
USC Physical Therapy Upper Extremity Athlete Fellowship
Division of Biokinesiology and Physical Therapy
University of Southern California

2/06-4/20 Clinical Instructor
Research Hybrid Affiliation
USC Physical Therapy - HSC
Los Angeles, California

10/09-present Associate Residency Mentor
USC Orthopedic Physical Therapy Residency
USC Sports Physical Therapy Residency
Division of Biokinesiology and Physical Therapy
University of Southern California

9/09-present Student Mentor
USC DPT Student Mentorship Program
Division of Biokinesiology and Physical Therapy
University of Southern California

7/11-4/20 Physician Fellowship Mentor
USC Rheumatology Fellowship
Department of Rheumatology
University of Southern California

4/09-4/20 Physician Fellowship Mentor
USC Pain Fellowship
USC Pain Center
Department of Anesthesiology
University of Southern California

8/05-2/06 Clinical Instructor
Physiotherapy Associates Scottsdale Sports Clinic
Scottsdale, Arizona

Community Activities / Outreach

3/10-3/20 Los Angeles Angels Baseball Club
Cactus League Spring Training Physicals

Tempe, Arizona

2012-present East Los Angeles College Athletic Department Pre-Participation Physicals
Monterey Park, California

2016-present B1 Baseball Academy Screening Program
Consultant (unpaid)
South Pasadena, California

2014-2016 San Marino High School Baseball Screening Program
San Marino, California

Consulting Activities / Financial Disclosures

2019 Theragun LLC
Provider Referral Network Member

2015 Hygieia Medical Equipment LLC
Advisory Board Member

2007 G2 Fitness, Development of exercise equipment