

AMY L. LADD M.D.

Elsbach-Richards Professor of Surgery, Stanford University School of Medicine
Vice-Chair of Academic Affairs, Department of Orthopaedics Chief, Chase Hand & Upper Limb Center
Assistant Dean for Medical Student Advising
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EDUCATION

Dartmouth College, Hanover, New Hampshire	AB in History	1980
SUNY Upstate Medical Center, Syracuse, NY	MD in Medicine	1984
Swedish Hospital Medical Center, Seattle, WA	General Surgery, PGY1	1985
Pacific Medical Center, U. of Wash, Seattle, WA	PGY2, GMO/Orthopaedic Surgery	1986
University of Rochester, Rochester, New York	PGY3-5, Orthopaedic Surgery	1989
Brigham & Women's, Harvard University, Boston, MA	PGY6, Hand Surgery Fellowship	1990
L'Institut de la Main, Paris, France	Hand Surgery Fellowship	1990

POSITIONS & EMPLOYMENT

Assistant Professor, Division of Hand Surgery, Department of Functional Restoration, Stanford University and Assistant Professor by courtesy, Divisions of Immunology/ Rheumatology (Dept. of Medicine), Stanford University		1990 -1998
Chief, Hand & Upper Extremity Section, Department of Surgery, Palo Alto VA Med Ctr, Palo Alto, CA		1990 - 1998
Chief of the Children's Hand Clinic, Lucile Packard Children's Hospital at Stanford		1991 - present
Director, Hand Surgery Fellowship, Stanford University		1991 - present
Associate Professor, Division of Hand Surgery, Department of Functional Restoration, & Associate Professor by courtesy, Divisions of Immunology/Rheumatology (Dept. of Medicine), Stanford University		1998 - 2003
Head of Outreach, SUMMIT (Stanford University Medical Media Information Technologies)		2001 - 2007
Professor, Department of Orthopaedics, Stanford University, Stanford, CA		2003 - present
Professor, Division Plastic Surgery, and Division of Immunology / Rheumatology (Dept. of Medicine), by courtesy, Stanford University, Stanford, CA		2003 - present
Professor and Chief, Robert A. Chase Hand & Upper Limb Center, Stanford University		2007 - present
Assistant Dean for Medical Student Advising, Stanford University School of Medicine		2013 - present
Vice-Chair, Academic Affairs, Department of Orthopaedics, Stanford University		2014 – present
Elsbach-Richards Endowed Professor of Surgery, Stanford University School of Medicine		2017 - present

OTHER EXPERIENCE & PROFESSIONAL MEMBERSHIPS

Ruth Jackson Orthopaedic Society (RJOS), member	1987 – present
<i>Presidential Line</i> : Treasurer 2010-12, vice-president 2012-13 President 2013-14, past-president 2014-15	2010 - 2015
American Academy of Orthopaedic Surgeons (AAOS), inducted 1994 <i>2015 Nominating Committee, Board of Directors</i>	1994 – present 2014
California Academy of Medicine, elected 1995	1995 - 2012
American Society for Surgery of the Hand (ASSH), inducted 1995	1995 - present
Western Orthopaedic Association (WOA), elected August 1996	1996 - present
Editor-in-Chief, Yearbook of Hand Surgery	1999 - 2004
International Wrist Investigators Workshop (IWIW), elected 2002	2002 - present
International Society for Fracture & Repair (IFSR), elected 2002	2002 - present

American Orthopaedic Association (AOA), inducted 2003 <i>Development Committee</i>	2003 – present 2015 - 2018
Board of Directors, California Orthopaedic Association (COA)	2007 - 2012
AAOS Diversity Advisory Board member	2006-2013
Association of Bone & Joint Surgeons (ABJS), inducted 2008 <i>Nominating Committee, Scientific Committee, Chair Task Force on Organization</i>	2008 – present 2014, 2015, 2017
Oral Examiner, American Board of Orthopaedic Surgery (ABOS)	2009 - present
Twentieth Century Orthopaedic Association, inducted 2012	2012 - present
Board Member, Perry Outreach Initiative	2013 - present
Deputy Editor, Clinical Orthopaedics & Related Research <i>Liaison to Ruth Jackson Orthopaedic Society (RJOS)</i>	2013 – 2016
Nominating Committee election to orthopaedic organizations AAOS 2015 Board of Directors (2014); RJOS (2014); AOA (2016, 2017); California Orthopaedic Association (2016); ABJS (2016), ASSH (2016, 2017)	2014-present
Leadership line Board of Specialties, AAOS <i>Succession from Secretary, Chair-elect; Chair anticipated 2018</i>	2016-2018
Board of Directors, AAOS	2016-2018

HONORS & AWARDS, selected examples

Woman of Achievements award, San Jose Mercury News & Women’s Fund	1997
Outstanding Faculty Physician Award, Cowell Student Health Ctr, Stanford University	1998
Sterling Bunnell Traveling Fellowship, American Society for Surgery of the Hand (ASSH)	2000 - 2001
Poster Exhibit Award, Best Scientific Content HM, ASSH Annual Meeting, Seattle, WA	2002
American Academy of Orthopaedic Surgeons (AAOS) Multimedia Award, <i>Paget’s Disease of Bone. AAOS 70th Annual Meeting, New Orleans, LA</i>	2003
Iris Litt Fund research award, Institute for Women & Gender at Stanford	2004
OREF/RJOS/DePuy Career Development Award	2010
Dean’s Award for Distinguished Teaching, Stanford University	2010
Emanuel B. Kaplan Excellence in Anatomy award, ASSH Annual Meeting	2012
Guest Editor, Thumb CMC Arthritis Symposium, Clinical Orthopaedics & Related Research 2012 – 2014	
Compere Award, Outstanding Scientific Paper, Twentieth Century Orthopaedic Assoc.	2012
Nicolas Andry Award, “significant contribution to musculoskeletal research,” <i>Association of Bone and Joint Surgeons</i>	2014
Dean’s Teaching Award Nomination	2015
International Visiting Professor, American Society for Surgery of the Hand	2016
Andrew J. Weiland Medal, American Society for Surgery of the Hand (ASSH)	2017

CURRENT & RECENT TEACHING RESPONSIBILITIES

Assistant Dean for Medical Student Advising, Stanford University School of Medicine

Advise students regarding clerkships, career decisions, research; write dean’s letter

Vice-Chair, Academic Affairs, Department of Orthopaedic Surgery, Stanford University School of Medicine

Develop faculty and promote leadership in clinical practice, teaching, scholarship

Chair, Committee on Appointments & Promotions, Department of Orthopaedic Surgery, Stanford University

Prepare appointment and promotion recommendations to School of Medicine and Provost of University

Hand Fellowship Director

Stanford Hand & Upper Limb ACGME-accredited (orthopaedics) – 2 positions. 1991-present

Director of Education

Medical Students, Residents, and Fellows, Stanford Hand & Upper Extremity Rotation for combined orthopaedic and plastic surgery residents, 1990-present

Dissertation Committee for Doctoral Candidates

Victoria Jew, Material Science and Engineering PhD candidate, Stanford University, “Subcritical Crack Propagation in Calcium Phosphate Cements.” June 2003

Matthew Wright, Music PhD Candidate, Stanford University, “The Shape of an Instant: Measuring and Modeling Perceptual Attack Time with Probability Density Functions.” February 2008

Eni Halilaj, Bioengineering PhD Candidate, Brown University, “Image-Based Analysis of the Mechanical Mediators of Osteoarthritis in the First Carpometacarpal Joint.” September 2014

Luke Dahl, Music PhD Candidate, Stanford University, “Computer-Based Music Theory and Acoustics: “Timing of Discrete Air-Gestures.” November 2014

Faculty Mentor & Dissertation Committee, PhD Candidate Marco Schneider, University of Auckland, Auckland, NZ. Dissertation anticipated spring 2016.

Lead Faculty, The Anatomy of Movement—Stanford University. Interdisciplinary project-based course evaluating human movement: for medical, engineering, art, computer science, & human biology students 2004-10

SELECTED RECENT PEER-REVIEWED PUBLICATIONS (91 papers, 13 e-monographs, 24 book chapters)

Most relevant to current area of research (imaging, motion, & thumb CMC arthritis), past 5 years

1. McQuillan TJ, Vora MM, Kenney DE, Crisco JJ, Weiss AC, Ebert KA, Snelgrove KE, Sarnowski A, **Ladd AL**. The AUSCAN and PRWHE Demonstrate Comparable Internal Consistency and Validity in Patients With Early Thumb Carpometacarpal Osteoarthritis. *Hand (N Y)*. 2017 Sep 1;1558944717729217. [Epub ahead of print] PubMed PMID: 28934868
2. **Ladd AL**: CORR Insights®: What Demographic and Clinical Characteristics Correlate With Expectations With Trapeziometacarpal Arthritis? *Clin Orthop Relat Res*, 2017 May 31. [Epub ahead of print] PubMed PMID: 28569373.
3. Coughlan MJ, Bourdillon A, Crisco JJ, Kenney D, Weiss AP, Ladd AL. Reduction in Cylindrical Grasp Strength Is Associated With Early Thumb Carpometacarpal Osteoarthritis. *Clin Orthop Relat Res*. 2017 Feb;475(2):522-528. PubMed PMID: 27822895.
4. McQuillan TJ, Kenney D, Crisco JJ, Weiss AP, **Ladd AL**. Weaker Functional Pinch Strength Is Associated With Early Thumb Carpometacarpal Osteoarthritis. *Clin Orthop Relat Res*. 2016 Feb;474(2):557-61. PubMed PMID: 26493987.
5. Ludwig CA, Mobargha N, Okogbaa J, Hagert E, Ladd AL. Altered Innervation Pattern in Ligaments of Patients with Basal Thumb Arthritis. *J Wrist Surg*. 2015 Nov;4(4):284-91. doi: 10.1055/s-0035-1564982. PubMed PMID: 26649261
6. Becker SJ, Bruinsma WE, Guitton TG, van der Horst CM, Strackee SD, Ring D; Science of Variation Group. Interobserver Agreement of the Eaton-Glickel Classification for Trapeziometacarpal and Scaphotrapezium Arthrosis. *J Hand Surg Am*. 2016 Apr;41(4):532-540.e1. PubMed PMID: 26826947.
7. Halilaj E, Moore DC, Patel TK, Laidlaw DH, **Ladd AL**, Weiss AC, Crisco JJ. Older asymptomatic women exhibit patterns of thumb carpometacarpal joint space narrowing that precede changes associated with early osteoarthritis. *J Biomech*. 2015 Aug 21. PubMed PMID: 26323995.
8. McQuillan TJ, Kenney D, Crisco JJ, Weiss AP, **Ladd AL**. Weaker Functional Pinch Strength Is Associated With Early Thumb Carpometacarpal Osteoarthritis. *Clin Orthop Relat Res*. 2015 Oct 22. [Epub ahead of print] PubMed PMID: 26493987.
9. Schneider MT, Zhang J, Crisco JJ, Weiss AP, **Ladd AL**, Nielsen P, Besier T. Men and women have similarly shaped carpometacarpal joint bones. *J Biomech*. 2015 Jun 12. PubMed PMID: 26116042.
10. Halilaj E, Rainbow MJ, Moore DC, Laidlaw DH, Weiss AP, **Ladd AL**, Crisco JJ. In vivo recruitment patterns in the anterior oblique and dorsoradial ligaments of the first carpometacarpal joint. *J Biomech*. 2015 Jul 16;48(10):1893-8. PubMed PMID: 25964211
11. Halilaj E, Moore DC, Patel TK, **Ladd AL**, Weiss AP, Crisco JJ. Early osteoarthritis of the trapeziometacarpal joint is not associated with joint instability during typical isometric loading. *J Orthop Res*. 2015 May 2. PMID: 25941135.
12. **Ladd AL**, Messana JM, Berger AJ, Weiss AP. Correlation of clinical disease severity to radiographic thumb osteoarthritis index. *J Hand Surg Am*. 2015 Mar;40(3):474-82. PubMed PMID: 25617217.
13. Crisco JJ, Halilaj E, Moore DC, Patel T, Weiss AP, **Ladd AL**. In Vivo kinematics of the trapeziometacarpal joint during thumb extension-flexion and abduction-adduction. *J Hand Surg Am*. 2015 Feb;40(2):289-96. PubMed PMID: 25542440.
14. Halilaj E, Moore DC, Patel TK, Laidlaw DH, **Ladd AL**, Weiss AP, Crisco JJ. Thumb carpometacarpal joint congruence during functional tasks and thumb range-of-motion activities. *Conf Proc IEEE Eng Med Biol Soc*. 2014;2014:4354-7. PubMed PMID: 25570956.
15. **Ladd AL**, Crisco JJ, Hagert E, Rose J, Weiss AP. The Puzzle of the Thumb: Mobility, Stability, and Demands in Opposition. The 2014 ABJS Nicolas Andry Award. *Clin Orthop Relat Res*. 2014 Dec;472(12):3605-22. PubMed PMID: 25171934.
16. **Ladd AL**, Leopold SS. Editor's Spotlight/Take 5: The 2014 ABJS Nicolas Andry Award: The puzzle of the thumb: mobility, stability, and demands in opposition. *Clin Orthop Relat Res*. 2014 Dec;472(12):3601-4. PubMed PMID: 25287522.
17. Halilaj E, Moore DC, Laidlaw DH, Got CJ, Weiss AP, **Ladd AL**, Crisco JJ. The morphology of the thumb carpometacarpal joint does not differ between men and women, but changes with aging and early osteoarthritis. *J Biomech*. 2014 Aug 22;47(11):2709-14. PubMed PMID: 24909332.
18. Luker KR, Aguinaldo A, Kenney D, Cahill-Rowley K, **Ladd AL**. Functional Task Kinematics of the Thumb Carpometacarpal Joint. *Clin Orthop Relat Res*. 2014 Apr;472(4):1123-9. PubMed PMID: 23549712.
19. Halilaj E, Rainbow MJ, Got C, Schwartz JB, Moore DC, Weiss AP, **Ladd AL**, Crisco JJ. In Vivo Kinematics of the Thumb Carpometacarpal Joint During Three Isometric Functional Tasks. *Clin Orthop Relat Res*. 2014 Apr;472(4):1114-22. PubMed PMID: 23681597.
20. Mobargha N, Ludwig C, **Ladd AL**, Hagert E. Ultrastructure and Innervation of Thumb Carpometacarpal Ligaments in Surgical Patients With Osteoarthritis. *Clin Orthop Relat Res*. 2014 Apr;472(4):1114-PubMed PMID: 23681597
21. Berger AJ, Momeni A, **Ladd AL**. Intra- and Interobserver Reliability of the Eaton Classification for Trapeziometacarpal Arthritis: A Systematic Review. *Clin Orthop Relat Res*. 2014 Apr;472(4):1155-9. PubMed PMID: 23917991.
22. Ladd AL. The Robert's view: a historical and clinical perspective. *Clin Orthop Relat Res*. 2014 Apr;472(4):1097-100. PubMed PMID: 24363184
23. Van Nortwick S, Berger A, Cheng R, Lee J, **Ladd AL**: Trapezium Topography in Thumb Carpometacarpal Arthritis. *J Wrist Surg* 2013;2:263–270, PubMed PMID: 24436826.
24. Zhang A, Van Nortwick S, Hagert E, Yao J, and **Ladd AL**: “Thumb CMC Ligaments Inside and Out: A Comparative Study of Arthroscopy and Gross Anatomy.” *J Wrist Surg* 2013;2:55–62, PubMed PMID: 24436790.

25. Lee AT, Williams AA, Lee J, Cheng R, Lindsey DP, **Ladd AL**. Trapezium trabecular morphology in carpometacarpal arthritis. *J Hand Surg Am*. 2013 Feb;38(2):309-15, PubMed PMID: 23267754.
26. **Ladd AL**, Weiss AP, Crisco JJ, Hagert E, Wolf JM, Glickel SZ, Yao J. The thumb carpometacarpal joint: anatomy, hormones, and biomechanics. *AAOS Instr Course Lect*. 2013;62:165-79, PMID: 23395023.
27. **Ladd AL**, J Lee, E Hagert: " Macroscopic and Microscopic Analysis of the Thumb Carpometacarpal Ligaments: A Cadaveric Study of Ligament Anatomy and Histology." *J Bone and Joint Surgery*, 2012;94:1468-77, PubMed PMID: 22992815
28. Hagert E, Lee J, **Ladd AL**: Innervation Patterns of the Thumb Trapeziometacarpal Joint Ligaments. *Journal of Hand Surgery Am*. 2012 Apr;37(4):706-714, PMID: 22464234
29. Lee J, **Ladd A**, Hagert E. Immunofluorescent Triple-Staining Technique to Identify Sensory Nerve Endings in Human Thumb Ligaments. *Cells Tissues Organs*. 2012;195(5):456-64. PubMed PMID: 21832813.
30. Meister D, **Ladd AL**, Butler EE, Rogers A, Ray C and Rose J. Rotational Biomechanics of the Elite Golf Swing: Benchmarks for Amateurs. *J Appl Biomech*. 2011 Aug;27(3):242-51. PubMed PMID: 21844613.

Publications relevant to musculoskeletal science and gendered innovations

1. Ladd AL. Pearls: Snakes in the Grass and Other Surgical Gems. *Clin Orthop Relat Res*. 2016 Nov;474(11):2357-2358. PubMed PMID: 27562786.
2. **Ladd AL**. Gendered Innovations in Orthopaedic Science: Sex, Lies, and Stereotype: In Praise of the Systematic Review. *Clin Orthop Relat Res*. 2016 Jan;474(1):27-30. PubMed PMID: 26481123.
3. Ladd AL. Gendered Innovations in Orthopaedic Science: Hollywood and Orthopaedics: Through the Glass Ceiling--Darkly. *Clin Orthop Relat Res*. 2016 Jun;474(6):1379-82. PubMed PMID: 26987864
4. **Ladd AL**. Gendered Innovations in Orthopaedic Science: Women (and Men) Who Rock. *Clin Orthop Relat Res*. 2015 Aug;473(8):2460-3. PubMed PMID: 26077611
5. **Ladd AL**. Gendered Innovations in Orthopaedic Science: Civil Liberties, Darwin, and the Evolution of Science. *Clin Orthop Relat Res*. 2015 Feb 10. PubMed PMID: 25666144.
6. **Ladd AL**. Gendered Innovations in Orthopaedic Science: from access to zygote: a gender and orthopaedics lexicon. *Clin Orthop Relat Res*. 2014 Dec;472(12):3629-31. PubMed PMID: 25300512.
7. **Ladd AL**. Gendered Innovations in Orthopaedic Science: Title IX Education: Book Learnin' and Bone Mendin'. *Clin Orthop Relat Res*. 2014 Sep;472(9):2586-9. PubMed PMID: 24964885.
8. **Ladd AL**. The sports bra, the ACL, and Title IX--the game in play. *Clin Orthop Relat Res*. 2014 Jun;472(6):1681-4 PMID: 24723143
9. **Ladd AL**. Let's talk about sex, baby: gendered innovations in orthopaedic science. *Clin Orthop Relat Res*. 2014 Mar;472(3):793-5. PubMed PMID: 24442840

Additional recent publications in quality, musculoskeletal education, & orthopaedics, past 5 yrs

1. McQuillan TJ, Hawkins JE, Ladd AL. Incidence of Acute Complications Following Surgery for Syndactyly and Polydactyly: An Analysis of the National Surgical Quality Improvement Program Database from 2012 to 2014. *J Hand Surg Am*. 2017 Sep;42(9):749.e1-749.e7. PubMed PMID: 28648327
2. Hand Surgery Quality Consortium. Candidate Quality Measures for Hand Surgery. *J Hand Surg Am*. 2017 Aug 14. pii: S0363-5023(17)30052-7.[Epub ahead of print] PubMed PMID: 28818350.
3. Hand Surgery Quality Consortium (Kamal RN, Ring D, Akelman E, Ruch DS, Richard MJ, Ladd A, Got C, Blazar P, Yao J, Kakar S). Quality Measures That Address the Upper Limb. *J Hand Surg Am*. 2016 Nov;41(11):1041-1048.e22. PubMed PMID: 27577525.
4. McQuillan T, Wilcox-Fogel N, Kraus E, **Ladd A**, Fredericson M. Integrating Musculoskeletal Education and Patient Care at Medical Student-Run Free Clinics. *PM R*. 2017 Apr 5. [Epub ahead of print] PubMed PMID: 28389399.
5. Lattanza LL, Meszaros-Dearolf L, O'Connor MI, Ladd A, Bucha A, Trauth-Nare A, Buckley JM. The Perry Initiative's Medical Student Outreach Program Recruits Women Into Orthopaedic Residency. *Clin Orthop Relat Res*. 2016 May 31. [Epub ahead of print] PubMed PMID: 27245771.
6. Kamal RN, Ring D, Akelman E, Yao J, Ruch DS, Richard M, Ladd A, Got C, Blazar P, Kakar S. Quality Measures in Upper Limb Surgery. *J Bone Joint Surg Am*. 2016 Mar 16;98(6):505-10. doi: 10.2106/JBJS.15.00651. PubMed PMID: 26984919.
7. Waljee JF, Ladd A, MacDermid JC, Rozental TD, Wolfe SW; Distal Radius Outcomes Consortium. A Unified Approach to Outcomes Assessment for Distal Radius Fractures. *J Hand Surg Am*. 2016 Apr;41(4):565-73. doi: 10.1016/j.jhsa.2016.02.001. Epub 2016 Mar 5. PubMed PMID: 26952734.
8. Kamal RN, Kakar S, Ruch D, Richard MJ, Akelman E, Got C, Blazar P, Ladd A, Yao J, Ring D. Quality Measurement: A Primer for Hand Surgeons. *J Hand Surg Am*. 2016 May;41(5):645-51. PubMed PMID: 26576831.
9. Wolf JM, Cannada L, Van Heest AE, O'Connor MI, **Ladd AL**. Male and Female Differences in Musculoskeletal Disease. *J Am Acad Orthop Surg*. 2015 Jun;23(6):339-347. PubMed PMID: 26001426
10. Wolf JM, Cannada LK, Lane JM, Sawyer AJ, Ladd AL. A comprehensive overview of osteoporotic fracture treatment. *Instr Course Lect*. 2015;64:25-36. PubMed PMID:25745892.
11. Comer GC, **Ladd AL**. Mngmt. of complic. of congenital hand disorders. *Hand Clin*. 2015 May;31(2):361-75. PubMed PMID: 25934210.
12. Goldhahn J, Beaton D, **Ladd AL**, Macdermid J, Hoang-Kim A. Recommendation for measuring clinical outcome in distal radius fractures: a core set of domains for standardized reporting in clinical practice and research. *Arch Orthop Trauma Surg*. 2014 Feb;134(2):197-205. PubMed PMID: 23728832
13. Sendher R, **Ladd AL**. The scaphoid. *Orthop Clin North Am*. 2013 Jan;44(1):107-20. PMID: 23174330
14. Van Nortwick SS, Yao J, **Ladd AL**. Titanium integration with bone, welding, and screw head destruction complicating hardware removal of the distal radius. *J Hand Surg Am*. 2012 Jul;37(7):1388-92. PubMed PMID: 22652178.
15. Guitton TG, Ring D; Science of Variation Group [member]. Interobserver reliability of radial head fracture classification: two-dimensional compared with three-dimensional CT. *J Bone Joint Surg Am*. 2011 Nov 2;93(21):2015-21. PubMed PMID: 22048097.

16. Hoang-Kim A, Pegreff F, Moroni A, **Ladd A**. Measuring wrist and hand function: common scales and checklists. *Injury*. 2011 Mar;42(3):253-8. Epub 2010 Dec 15. PubMed PMID: 21159335.

Publications and Podcasts for General & Patient Education

1. **The Hand Book: Explore the Handiest Part of Your Body**. Klutz publishing, August 2010. Pat Murphy, ed; AL Ladd, consultant/contributor. (<http://www.amazon.com/The-Hand-Book-Explore-Handiest/dp/1591748615>)
2. **Thumb CMC Arthritis: A Patient Resource**. Apple iBook, published May 2014. AL Ladd, author (<https://itunes.apple.com/us/book/thumb-cmc-arthritis/id84345530?mt=11>)
3. **Portraits of Stanford Medicine**: Amy Ladd. Podcast, August 2017 (<http://www.med.stanford.edu/news/all-news/one-to-one/2017/portraits-of-stanford-medicine--amy-ladd.html>)

RESEARCH SUPPORT

Ongoing Research Support

- 1 & 2) **Thumb CMC Biomechanics & Early OA Progression**. NIH R01 Grant. Skeletal Biology Structure and Regeneration Study Section (NIH/SBSR 1R01AR059185-01A1). Period: 7/15/11-4/15/16, phase 2 renewed 4/15/2016-2021. Principal Investigator, Stanford University site (co-Institutional grant with Rhode Island Hospital, JJ Crisco, PI.) \$500,000/ year @ 2 institutions for 10 years
- 3) **Ronald & Ann Williams Charitable Foundation**. Period: 1/1/10-12/31/15. Sole recipient. Research development, scholarship, visiting fellowship, with focus on Motion Analysis Lab, Chase Hand Center and Department of Orthopaedic Surgery. \$125,000/year

Recent Completed Research Support

- 1) **1st International Thumb Osteoarthritis Workshop (ITOW), NIH R13 Conference Grant**. \$13,179, NIH R13AR065906-01. For ITOW Workshop, Brown University and Stanford University sponsored meeting, 25-26 October 2013.
- 2) American Foundation for Surgery of the Hand Basic Science Research Grant: Does Ligament Elasticity Affect Carpal Kinematics? Period: 10/1/2015-9/30/16. Role: Co-investigator. Robin Kamal, PI. \$20,000.
- 3) **Thumb CMC Joint in Women: Anatomy and function in Symptomatic and Early Arthritis Subjects**. Career Development Award. Agency: OREF/RJOS/DePuy \$50,000. Period: 7/1/10-12/31/11 Goals: Pilot study of functional thumb kinematic Role: PI
- 4&5) **A 3-D Interactive Atlas of the Hand and Wrist**. Agency: NIH/NBIB, SBIR Phase #1 R43 EB003067-01A1; SBIR Phase #2 R44 EB003067-02A1; \$100,000 & \$825,000. Period: 6/1/04-6/1/05 and 9/1/08-9/30/11

PATENTS

1. **Tensioning Bone Implant Device**. Application number: 20100217391. Filed: Nov 3, 2009. Issued: August 26, 2010. Inventor: AL Ladd
2. **Reduced Bone Fracture Fixation Device**. Application number: 20120035666. Filed: August 16, 2011. Issued: February 9, 2012. Inventors: AL Ladd, APC Weiss, GB Hulme, M Thompson, JJ Christian
3. **Wedge Shaped Fracture Fixation Devices and Methods for Using the Same**. Application number: 20130211522. Filed: August 14, 2012. Issued: August 15, 2013. Inventors: APC Weiss, **AL Ladd**, R Fiebiger, GB Hulme, JJ Christian
4. **Methods for analyzing and providing feedback for improved power generation in a golf swing**. Patent number: 8696450. Filed: July 27, 2012. Issued: April 15, 2014. Assignee: Stanford University. Inventors: J Rose, DW Meister, AL Ladd, KM Steele. *Previously filed as Application number: 2013/0029791*.
5. **Bone Ribbon Graphic, bone health awareness**. Trademark Application No.: 86/270,352, Filed 6 May 2014, issued 9 December 2014.
6. **Design of Looped Ribbon for bone health awareness**. Trademark No. 43224-000200, Serial number 86270352 (CL 14, 25, 35, and 36). Renewed and transferred to active usage with Statement of Use, 16 June 2016.
7. **Trademark assigned, Looped Ribbon for bone health awareness**. Registered Trademark No. 5,129,413, Serial number 86270352, Int. Cl 14, 25, 35,36. Registered 24 January 2017.
8. **Methods for analyzing and providing feedback for improved power generation in a golf swing**. filed 09/11/14, issued April 2017 – 2014/0257538
9. **Wedge Shaped Fracture Fixation Devices and Methods for Using the Same**. Publication number: US2017/0231674 A1. Filed: 23 February 2017. Issued: 17 August 2017. Inventors: APC Weiss, **AL Ladd**, R Fiebiger, GB Hulme, JJ Christian

LANGUAGES

Spanish – fluent French – conversant

COMMUNITY & INTERNATIONAL SERVICE

Chinle Navajo Reservation, Volunteer Hand Surgeon, 2010 – present
Assistant Boy Scoutmaster, Troop 52, Skyline Council, 2010-2013
Interplast Volunteer, Vietnam (1991) and domestic service (1990-2000)

AVOCATIONAL INTERESTS

Classical piano, ballet, photography
Skiing, running (1981 Skyline Marathon: 3:08 hours; 1982 Avon Half Marathon 81 minutes)

FAMILY

Husband Doug Fitzgerald, children Ian Fitzgerald (1994), Emily Fitzgerald (1997), Katy Fitzgerald (2000)