

**JING-SHENG LI, PT, PhD**

[jli@seattleu.edu](mailto:jli@seattleu.edu) | <https://www.linkedin.com/in/jing-sheng-li/>

**EDUCATION**

- 2013- 2018      PhD in Rehabilitation Sciences, Human Movement and Adaptation Concentration Area, Sargent College of Health and Rehabilitation Sciences, Boston University.  
Advisor: [Cara L Lewis, PT, PhD](#)  
[David T Felson, MD, MPH](#)  
Guoan Li, PhD  
Dissertation Title: Knee joint kinematics before and after body weight change
- 2006-2008      Master of Science in Biomedical Engineering, National Yang-Ming University, Taipei City, Taiwan  
Advisor: Cheng-Kung Cheng, Ph.D.  
Thesis Title: Contact characteristics and ligament length during different high flexion activities of the knee
- 2002-2006      Bachelor of Science in Physical Therapy, China Medical University, Taichung City, Taiwan

**WORK EXPERIENCE**

- Sep 2026-      Assistant Professor  
Department of Kinesiology  
Seattle University
- Dec 2023-Aug 2026      Research Scientist 4  
Department of Oral Health Sciences (PI: Fritzie Arce-McShane)  
Department of Mechanical Engineering (PI: Eric Rombokas)  
University of Washington
- Dec 2022-Mar 2023      Instructor  
Department of Mechanical Engineering  
University of Washington
- Nov 2019-Nov.2023      Postdoctoral Scholar
- May 2019-Nov 2019      Postdoctoral Scholar (unpaid due to visa interruption)
- May 2018-May 2019      Research Associate  
Department of Mechanical Engineering  
University of Washington (PI: Patrick M Aubin)
- Aug 2018-Aug 2022      Research Scientist (WOC)  
Center for Limb Loss and MoBility (CLiMB)  
VA Puget Sound Health Care System (PI: Patrick M Aubin)
- Sep 2013- May 2018      Graduate Research Assistant  
1) Clinical Epidemiology Research and Training Unit  
Boston University School of Medicine (PI: David T Felson)  
2) Human Adaptation Laboratory  
College of Health and Rehabilitation Sciences: Sargent College, Boston University (PI: Cara L Lewis)
- Jan 2018- May 2018      Graduate Research Assistant  
Orthopaedic Biomechanics Research Center, Department of Orthopaedics  
Newton-Wellesley Hospital and Harvard Medical School (PI: Guoan Li)
- Sep 2013-Dec 2017      Graduate Research Assistant  
Bioengineering Laboratory, Department of Orthopaedics  
Massachusetts General Hospital/ Harvard Medical School (PI: Guoan Li)
- Nov 2010- Aug 2013      Research Engineer  
Bioengineering Laboratory, Department of Orthopaedics  
Massachusetts General Hospital/ Harvard Medical School
- Jul 2010-Nov 2010      Research Assistant  
Orthopaedic Device Research Center, National Yang-Ming University, Taiwan
- May 2009-Jun 2010      Substitute Military Service (as physical therapist), Kinmen County Waterworks, Taiwan
- 2006-2008      Research and Teaching Assistant  
Joint Prosthesis Technology Research Center, National Yang-Ming University, Taiwan

## Curriculum Vitae (Jing-Sheng Li, continued)

|                   |                                                                                                                                       |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 2007              | <u>Co-founder of Respect Assistive Service</u><br>Incubation Center, National Yang-Ming University, Taiwan                            |
| 2006-2008         | <u>Part-time Physical Therapist</u> , Smart Clinic, Taiwan                                                                            |
| Dec 2005-Jun 2006 | <u>Physical Therapy Internship</u><br>Department of Physical Medicine and Rehabilitation, Taipei Veterans General Hospital, Taiwan    |
| Jun -Dec 2005     | <u>Physical Therapy Internship</u><br>Department of Physical Medicine and Rehabilitation, National Taiwan University Hospital, Taiwan |
| 2003-2006         | <u>Part-time Research Assistant</u><br>Department of Physical Therapy, China Medical University, Taiwan                               |

## HONORS AND AWARDS

|      |                                                                                                                                              |
|------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 2018 | <u>Force &amp; Motion/ORS Young Scientist Travel Grant</u><br>Force & Motion Foundation and the Orthopaedic Research Society                 |
| 2016 | <u>Best Poster Award</u><br>2016 Taiwanese Biomechanics Society Annual Meeting, Taichung, Taiwan                                             |
| 2016 | <u>Sargent College of Health and Rehabilitation Sciences Dean's Award</u><br>2016 Graduate Research Symposium, Boston University, Boston, MA |
| 2014 | <u>Finalist of PhD student Paper Competition</u><br>6 <sup>th</sup> World Congress of Biomechanics, Boston, MA                               |
| 2013 | <u>Sargent College Doctoral Fellowship</u><br>Boston University                                                                              |
| 2012 | <u>Selected poster for poster tour</u><br>58 <sup>th</sup> ORS Annual Meeting, San Francisco, CA                                             |
| 2006 | <u>Award for Moral Education, School of Physical Therapy</u><br>China Medical University, Taiwan                                             |
| 2004 | <u>Undergraduate Student Research Fellowship</u><br>National Science Council, Taiwan                                                         |

## PUBLICATIONS

### Ongoing Full-length Articles:

1. Li JS, Punacha S, Favour L, Tang D, Hosack V, Arce-McShane. The effect of sensory loss on jaw kinematics and muscle activation during feeding behavior. (drafting)
2. Ambron E, Williamson R, **Li JS**, Karrenbach M, Rombokas E, Coslett HB, Buxbaum LJ. Efficacy of virtual reality treatment of phantom leg pain: Results of a randomized clinical trial. medRxiv, 2026.04. 20.26350810.

### Peer-reviewed Full-length Articles:

1. Muir BC, Carranza C, **Li JS**, Sangeorzan B, Aubin PM. Navigating Conservative Strategies for Ankle Osteoarthritis Treatment: Understanding Footwear Preference—Rocker Bottom Shoes and Ankle Foot Orthotics. JPO: Journal of Prosthetics and Orthotics 2026;10:1097.
2. **Li JS**, Ramsay DS, Burke A, Huang GJ, Arce-McShane F. An Integrated Approach to Tracking Mandibular Position Relative to Incisal and Condylar Envelopes of Motion During Intraoral Clinical Procedures: A New Look at TMJ Movements. Front Dent Med. 2025. doi: 10.3389/fdmed.2025.1654118
3. **Li JS**, Lowinger E, Leslie ME, Balkman G, Kornbluh R, Lack W, Aubin PM, Libby T. Development of an Exosuit Knee Brace for Anterior Cruciate Ligament Injury. IEEE Trans Med Robot Bionics. 2025;7(3):1164-1174.
4. Muir BC\*, **Li JS\***, Hudak YF, Kaufman GE, Aubin PM. Application of novel plantar pressure-based 3-dimensional printed insoles -a feasibility study. Clin Biomech (Bristol, Avon). 2022;98:105739 (\*co-first author)
5. Hudak YF\*, **Li JS\***, Cullum S, Strzelecki, Richburg C, Kaufman GE, Abrahamson D, Heckman JT, Ripley B, Telfer S, Ledoux WR, Muir BC, Aubin PM. Application of additive fabrication in diabetic insole. Medical Engineering and Physics. 2022;104:103802. (\*co-first author)
6. **Li JS**, Tsai TY, Clancy MM, Lewis CL, Felson DT, Li G. Cartilage contact characteristics in obese individuals. J Orthop Res. 2022;40(11):2480-2487.
7. Bastawrous S, Wu L, Strzelecki B, Levin D, **Li JS**, Coburn J, Ripley B. Establishing Quality and Safety within a 3D Printing Program: A Patient-First Approach. RadioGraphics. 2021;41(4):1208-1229.
8. Jafarzadeh SR, Neogi T, Stefanik JJ, **Li JS**, Guermazi A, Apovian CM, Felson DT. Mediating role of bone marrow lesion, synovitis, pain sensitization, and depressive symptoms on knee pain improvement following substantial weight loss. Arthritis Rheumatol. 2020;72(3):420-427.

## Curriculum Vitae (Jing-Sheng Li, continued)

9. **Li JS**, Tsai TY, Clancy MM, Li G, Lewis CL, Felson DT. Weight loss changed gait kinematics in individuals with obesity and knee pain. *Gait Posture*. 2019;68:461-465.
10. Yu Y, **Li JS**, Guo T, Lang Z, Kang JD, Cheng L, Li G, Cha TD. Normal intervertebral segment rotation of the subaxial cervical spine: An in vivo study of dynamic neck motions. *J Orthop Translat*. 2019;18:32-39.
11. Jafarzadeh SR, Clancy M, **Li JS**, Apovian CM, Guermazi A, Eckstein F, Felson DT. Changes in the structural features of osteoarthritis in a year of weight loss. *Osteoarthritis Cartilage*. 2018;26(2):775-782
12. Kernkamp WA, Varady NH, **Li JS**, Asnis PD, van Arkel ERA, Nelissen RGHH, Van de Velde SK, Li G. The effect of ACL deficiency on the end-to-end distances of the tibiofemoral ACL attachment during in vivo dynamic activity. *Knee*. 2018;25(5):738-745.
13. Lang Z, **Li JS**, Yang F, Yu Y, Khan K, Jenis LG, Cha TD, Kang JD, Li G. Reoperation of decompression alone or decompression plus fusion surgeries for degenerative lumbar diseases: a systematic review. *Eur Spine J*. 2019;28(6):1371-1385.
14. Li G, **Li JS**, Torriani M, Hosseini A. Short-Term Contact Kinematic Changes and Longer-Term Biochemical Changes in the Cartilage After ACL Reconstruction: A Pilot Study. *Ann Biomed Eng*. 2018;46(11):1797-1805.
15. Yao Q, Yin P, Khan K, Tsai TY, **Li JS**, Hai Y, Tang P, Li G. Differences of the Morphology of Subaxial Cervical Spine Endplates between Chinese and White Men and Women. *Biomed Res Int*. 2018;28:54175.
16. Kernkamp WA, Varady NH, **Li JS**, Tsai TY, Asnis PD, van Arkel ERA, Nelissen RGHH, Gill TJ, Van de Velde SK, Li G. An In Vivo Prediction of Anisometry and Strain in Anterior Cruciate Ligament Reconstruction - A Combined Magnetic Resonance and Dual Fluoroscopic Imaging Analysis. *Arthroscopy*. 2018;34(4):1094-1103
17. **Li JS**, Tsai TY, Felson DT, Li G, Lewis CL. Six degree-of-freedom knee joint kinematics in obese individuals with knee pain during gait. *PLoS One*. 2017;24;12(3):e0174663.
18. Yin P, **Li JS**, Kernkamp WA, Tsai TY, Baek SH, Hosseini A, Lin L, Tang P, Li G. Analysis of in-vivo articular cartilage contact surface of the knee during a step-up motion. *Clin Biomech (Bristol, Avon)*. 2017;49:101-106.
19. Lin L, **Li JS**, Kernkamp WA, Hosseini A, Kim C, Yin P, Wang L, Tsai TY, Asnis P, Li G. Postoperative time dependent tibiofemoral articular cartilage contact kinematics during step-up after ACL reconstruction. *J Biomech*. 2016;49(14):3509-3515.
20. Yu Y, Mao H, **Li JS**, Tsai TY, Cheng L, Wood KB, Li G, Cha TD. Ranges of Cervical Intervertebral Disc Deformation During an In Vivo Dynamic Flexion-Extension of the Neck. *J Biomech Eng*. 2017;1;139(6).
21. Kernkamp WA, Van de Velde SK, Hosseini A, Tsai TY, **Li JS**, van Arkel ER, Li G. In Vivo Anterolateral Ligament Length Change in the Healthy Knee During Functional Activities-A Combined Magnetic Resonance and Dual Fluoroscopic Imaging Analysis. *Arthroscopy*. 2017;33(1):133-139.
22. Varady NH, Kernkamp WA, **Li JS**, Wang L, Koga H, Asnis P, Li G. The biomechanical effect of tunnel placement on ACL graft forces in double-bundle ACL reconstruction - A 3D computational simulation. *Int J Med Robot*. 2017;13(4).
23. Liu Z, Tsai TY, Wang S, Wu M, Zhong W, **Li JS**, Cha T, Wood K, Li G. Sagittal plane rotation center of lower lumbar spine during a dynamic weight-lifting activity. *J Biomech*. 2016;49(3):371-375.
24. Mao H, Driscoll SJ, **Li JS**, Li G, Wood KB, Cha TD. Dimensional changes of the neuroforamina in subaxial cervical spine during in vivo dynamic flexion-extension. *Spine J*. 2016;16(4):540-6.
25. Feng Y, Tsai TY, **Li JS**, Rubash HE, Li G, Freiberg A. In-vivo analysis of flexion axes of the knee: Femoral condylar motion during dynamic knee flexion. *Clin Biomech (Bristol, Avon)*. 2016;32:102-107.
26. Tsai TY, **Li JS**, Dimitriou D, Kwon YM. Does component alignment affect gait symmetry in unilateral total hip arthroplasty patients? *Clin Biomech (Bristol, Avon)*. 2015;30(8):802-807.
27. Tsai TY, Dimitriou D, **Li JS**, Woo Nam K, Li G, Kwon YM. Asymmetric hip kinematics during gait in patients with unilateral total hip arthroplasty: In vivo 3-dimensional motion analysis. *J Biomech*. 2015;48(4):555-559.
28. Liu X, **Li JS**, Hosseini A, Gill TJ, Li G. Anteromedial and posterolateral graft kinematics of a double-bundle ACL reconstruction: a 3D computer simulation. *Int J Med Robot*. 2016;12(1):96-101.
29. Tsai TY, Dimitriou D, **Li JS**, Kwon YM. Does haptic robot-assisted total hip arthroplasty better restore native acetabular and femoral anatomy? *Int J Med Robot*. 2016;12(2):288-95.
30. Liu X, **Li JS**, Hosseini A, Gill TJ, Li G. Application of computer-assisted imaging technology in human musculoskeletal joint research. *J Orthop Translat*. 2014;2:8-15.
31. Feng Y, Tsai TY, **Li JS**, Wang S, Hu H, Zhang C, et al. Motion of the femoral condyles in flexion and extension during a continuous lunge. *J Orthop Res*. 2015;33(4):591-597.
32. Dimitriou D, Tsai TY, **Li JS**, Nam KW, Park KK, Kwon YM. In vivo kinematic evaluation of Total Hip Arthroplasty during stair climbing. *J Orthop Res*. 2015;33(7):1087-93.
33. Tsai TY, **Li JS**, Wang S, Scarborough D, Kwon YM. In-vivo 6 degrees-of-freedom kinematics of metal-on-polyethylene total hip arthroplasty during gait. *J Biomech*. 2014;47(7):1572-6.

## Curriculum Vitae (Jing-Sheng Li, continued)

34. Hosseini A, **Li JS**, Gill TJ, Li G. Meniscus injuries alter the kinematics of knees with anterior cruciate ligament deficiency. *Orthop J Sports Med.* 2014;2(8):2325967114547346.
35. Li P, Tsai TY, **Li JS**, Zhang Y, Kwon YM, Rubash HE, et al. Morphological measurement of the knee: race and sex effects. *Acta Orthop Belg.* 2014;80(2):260-8.
36. Li P, Tsai TY, **Li JS**, Wang S, Zhang Y, Kwon YM, et al. Gender analysis of the anterior femoral condyle geometry of the knee. *Knee.* 2014;21(2):529-33.
37. **Li JS**, Tsai TY, Wang S, Li P, Kwon YM, Freiberg A, et al. Prediction of in vivo knee joint kinematics using a combined dual fluoroscopy imaging and statistical shape modeling technique. *J Biomech Eng.* 2014;136(12):124503.
38. Tsai TY, **Li JS**, Wang S, Lin H, Malchau H, Li G, et al. A novel dual fluoroscopic imaging method for determination of THA kinematics: in-vitro and in-vivo study. *J Biomech.* 2013;46(7):1300-4.
39. Tsai TY, **Li JS**, Wang S, Li P, Kwon YM, Li G. Principal component analysis in construction of 3D human knee joint models using a statistical shape model method. *Comput Methods Biomech Biomed Engin.* 2013. PMID: 3999343.
40. Qi W, Hosseini A, Tsai TY, **Li JS**, Rubash HE, Li G. In vivo kinematics of the knee during weight bearing high flexion. *J Biomech.* 2013;46(9):1576-82.
41. **Li JS**, Hosseini A, Cancre L, Ryan N, Rubash HE, Li G. Kinematic characteristics of the tibiofemoral joint during a step-up activity. *Gait Posture.* 2013;38(4):712-6.
42. Suzuki T, Hosseini A, **Li JS**, Gill TJ, Li G. In vivo patellar tracking and patellofemoral cartilage contacts during dynamic stair ascending. *J Biomech.* 2012;45(14):2432-7.
43. Li H, Hosseini A, **Li JS**, Gill TJ, Li G. Quantitative magnetic resonance imaging (MRI) morphological analysis of knee cartilage in healthy and anterior cruciate ligament-injured knees. *Knee Surg Sports Traumatol Arthrosc.* 2012;20(8):1496-502.
44. Chen CH, **Li JS**, Hosseini A, Gadikota HR, Gill TJ, Li G. Anteroposterior stability of the knee during the stance phase of gait after anterior cruciate ligament deficiency. *Gait Posture.* 2012;35(3):467-71.
45. Sim JA, Gadikota HR, **Li JS**, Li G, Gill TJ. Biomechanical evaluation of knee joint laxities and graft forces after anterior cruciate ligament reconstruction by anteromedial portal, outside-in, and transtibial techniques. *Am J Sports Med.* 2011;39(12):2604-10.
46. Kozanek M, Hosseini A, de Velde SK, Moussa ME, **Li JS**, Gill TJ, et al. Kinematic evaluation of the step-up exercise in anterior cruciate ligament deficiency. *Clin Biomech.* 2011;26(9):950-4.
47. Lin HC, **Li JS**, Lo SF, Shih YF, Lo CY, Chen SY. Isokinetic characteristics of shoulder rotators in patients with adhesive capsulitis. *J Rehabil Med.* 2009;41(7):563-8.

### Books/Chapters:

1. **Li JS**, Hosseini A, Gadikota HR, Li G. Kinesiology of the Knee Joint. In: O'Keefe RJ, Jacobs JJ, Chu CR, Einhorn TA, editors. *Orthopaedic Basic Science*. 4th ed. Rosemont: American Academy of Orthopaedic Surgeons; 2013. (ISBN:978-0-89203-843-5)
2. Cheng CK, Huang CH, **Li JS**, Chuang TW, Chen WC, Lin KJ. Hard Tissue Biomechanics. In *Introduction to Biomedical Engineering*. Tsanghai Book Publishing Co., Taichung, Taiwan. 2008. (ISBN:9789866507038)

### Patents:

1. Aubin P, Heckman, Kaufman GE, Abrahamson D, Ledoux W, Ripley B, Muir B, **Li JS**, Richburg C, Strzelecki B. Customized Foot Support and Systems and Methods for Providing Same (US Patent pending)
2. **Li JS**, Lin HC, Cheng CK. Myofascial Releaser and Combination Thereof. 2010. (Taiwan Patent: M376291)
3. **Li JS**, Lin YC, Lin JJ, Liao CW, Chen YW. Stairs Walker. 2011. (Taiwan Patent: I344361)

## TEACHING AND MENTORING EXPERIENCES

- |      |                                                                                                                                                                      |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2025 | <u>Invited Guest Speaker</u><br>Topic: TMJ tracking during intraoral procedures<br>Course Title: OHS 575 Seminar                                                     |
| 2024 | SURF mentor<br>Mentee: Yung-Hsin (Nicole) Cheng<br>Topic: A Self-instructional Training Video to Perform 3D Mandibular Border Movements                              |
| 2024 | <u>Instructor (Lab)</u><br>Course Title: KINE 5100: Biomechanics and Energetics of Locomotion at Seattle University (Course Instructor: Dr. Brittany Heintz Walters) |
| 2023 | <u>Instructor</u><br>Course Title: ME412/512 Biomechanics of Movement at the University of Washington                                                                |

## Curriculum Vitae (Jing-Sheng Li, continued)

- 2022 Invited Guest Speaker  
Topic: Application of the International Classification of Functioning, Disability and Health (ICF) framework in human-centered design  
Course Title: HCDE 498/598 Advanced Special Topics, Human Centered Design and Engineering at the University of Washington (Course Instructor: Dr. Sarah Coppola)
- 2022 Instructor (Lab)  
Course Title: KINE 5100: Biomechanics and Energetics of Locomotion at Seattle University (Lecture Instructor: Dr. Brittany Heintz Walters)
- 2022 Invited Guest Speaker  
Topic: Rehabilitation Biomechanics  
Course Title: Musculoskeletal Biomechanics at the University of Washington (Course Instructors: Drs. William Ledoux, Scott Telfer, Joseph Iaquinto)
- 2021 Guest Teacher/Observer  
Course Title: Biomechanics of Movement at the University of Washington (Course Instructor: Dr. Kat Steele)
- 2021-2022 Research Mentor  
Mentee: Yuri Hudak  
Topic: Mechanical testing of insole samples
- 2020 Invited Guest Speaker  
Course Title: Biomechanics Seminar at University of Washington (Course Instructor: Drs. Eric Rombokas and Glenn Klute)  
Topic: Knee joint kinematics before and after body weight change
- 2017 Guest Speaker  
Course Title: Instrumentation for Analysis of Motion at Boston University (Course Instructor: Dr. Deepak Kumar)  
Topic: Fluoroscopic imaging method for biomechanical application
- 2015 Guest Speaker  
Course Title: Instrumentation for Analysis of Motion at Boston University (Course Instructor: Dr. Cara L Lewis)  
Topic: Getting to the bones of it – dual fluoroscopy
- 2011-2016 Research Mentor for 11 lab interns (2 high school, 7 undergraduate, and 2 medical students)
- 2011-2018 Co-mentoring a total of 7 orthopaedic surgeons
- 2007-2008 Teaching Assistant at National Yang-Ming University (Clinical Engineering, Course Instructor: Dr. Cheng-Kung Cheng)

## RESEARCH SKILLS

Motion capture system (marker-based, IMU-based, and electromagnetic tracking)  
Medical imaging (X-ray, computed tomography, magnetic resonance imaging)  
Biplane fluoroscopic Imaging analysis/3D registration  
Biomechanical modeling  
Programming (MATLAB, Python)  
3D scanning and printing  
CAD design (Rhinoceros)  
Plantar pressure measurements (novel Pedar-X, Tekscan, XSENSOR)  
SAS statistical analysis software  
Kawasaki robotic arm  
ANSYS finite element analysis software  
Kin-Com isokinetic dynamometer  
Adobe Photoshop graphic and image editing software

## RESEARCH PROJECTS & GRANT WRITING EXPERIENCE

- 2026 Video-based evaluation of non-human primates' activity level (Role: Co-I, WaNPRC, under executive committee review)
- 2025 Real-time TMJ tracking with chairside alerts for intraoral procedures: a pilot feasibility & usability study (Role: PI, ITHS ESPD Award finalist, unfunded)
- 2025 Understanding 3D Biomechanics of TMJ and TMD risk: a longitudinal prospective cohort study (Role: MPI, NIH R01, unfunded)
- 2025 Feasibility of high-precision mandibular tracking during third molar extraction (Role: Co-PI, Royalty Research Fund, unfunded)

## **Curriculum Vitae (Jing-Sheng Li, continued)**

- 2024- Neuromuscular control of tongue and temporomandibular joint (Role: Research Scientist, NIH R01)
- 2023- Identifying barriers and facilitators to incorporating wearable sensors and standardized outcome measures into orthotic care for patients with knee osteoarthritis (Role: Co-I, The Orthotic and Prosthetic Foundation)
- 2021-2023 Active smart orthotic for rehabilitation of knee injuries  
(Role: Postdoc, DoD-CDMRP)
- 2019-2021 Novel 3D printed insole for diabetic foot  
(Role: grant writing, insole design, and clinical consulting, VA Merit Award. Granted 10/2021)
- 2020 Upper extremity rehabilitation exoskeleton  
(Role: consultant and assist in grant writing for VA Merit Award. Unfunded)
- 2018- Do Rocker Bottom Shoes and Ankle-Foot Orthoses Reduce Pain and Improve Mobility for Ankle Osteoarthritis Patients?  
(Role: Postdoc, VA Merit Award I01RX002278)
- 2013-2018 Cartilage deformation in obese people before and after weight loss  
(Role: Graduate research assistant, grant writing, main study was funded by NIH P60 AR47785)
- 2017-2018 Evaluating adjacent segment biomechanics after ACDF or TDR surgery in cervical spondylosis patients.  
(Role: Grant writing, NIH R03AG056897)
- 2016-2018 In-vivo Lumbar Disc Deformation  
(Role: Research engineer, NIH R21AR057989)
- 2014-2016 *In vivo* kinematics of BCR TKA during daily activities  
(Role: Research engineer, Massachusetts General Hospital Department of Orthopaedics)
- 2010-2018 *In vivo* kinematics of ACL deficient and reconstructed knees during daily activities  
(Role: Research engineer, NIH R01AR055612)
- 2011-2013 *In vivo* and in vitro THA kinematics  
(Role: Research engineer, Massachusetts General Hospital Department of Orthopaedics and MAKO Surgical Corp./Stryker Medical)
- 2012 Biomechanical testing of posterolateral corner instability and surgery  
(Role: Research engineer, Massachusetts General Hospital Department of Orthopaedics)
- 2011-2012 Biomechanical evaluation of suture anchor technique for repair of lacerated muscle bellies  
(Role: Research engineer, Massachusetts General Hospital Department of Orthopaedics)
- 2006-2008 Research and design of the patellofemoral joint prosthesis  
(Role: Graduate research assistant, Ministry of Economic Affairs (96-EC-17-A-19-S1-027), Taiwan)
- 2005-2006 Isokinetic characteristics of shoulder rotators in patients with adhesive capsulitis  
(Role: Investigator, National Science Council, Taiwan)
- 2003-2005 Biomechanics and neuromuscular adaptation in ACL deficient patients  
(Role: Research assistant, National Science Council, Taiwan)
- 2003-2004 Health changes and fall prevention in community-dwelling elderly fallers  
(Role: Research assistant, National Science Council, Taiwan)

## **LICENSURE**

- 2006-present Licensed Physical Therapist (Taiwan)

## **CONTINUING EDUCATION**

- 2021 PhD Career Ladder Program, UW Postdoc Association
- 2016 Champion Performance Seminar, Champion PT and Performance, Boston, MA (Speakers: Mike Reinold, Lenny Macrina, Dave Tilley, Kiefer Lammi, Rob Sutton, Greg Wilson)

## **PROFESSIONAL MEMBERSHIPS**

- 2018- Member, American Society of Biomechanics
- 2018- Member, Orthopaedic Research Society
- 2014-2018 Student Member, American Society of Biomechanics
- 2015-2018 Associate Member, Orthopaedic Research Society

## **PROFESSIONAL SERVICE**

- 2025 Reviewer, ORS2026
- 2025 Official photographer, American Society of Biomechanics Annual Meeting (ASB2026)
- 2025 Session Chair, 2025 AADOCR/CADR Annual Meeting & Exhibition

## Curriculum Vitae (Jing-Sheng Li, continued)

|                    |                                                                                                                                                                                                            |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2024               | Reviewer, American Society of Biomechanics annual meeting 2024                                                                                                                                             |
| 2022-2023          | Organizing committee, 2023 Northwest Biomechanics Symposium (NWBS)                                                                                                                                         |
| 2021               | Mentor, MEGA Mentorship program, University of Washington Mechanical Engineering Graduate Student Association. Mentee: Abhishek Sharma                                                                     |
| 2021               | Undergraduate Research Symposium<br>Program assistant and facilitator, University of Washington                                                                                                            |
| 2021-              | Reviewer, Scientific Reports                                                                                                                                                                               |
| 2020               | Volunteer, Stopgap Surgical Mask (SFM) in response to shortage of PPE during COVID-19 pandemic ( <a href="https://3dprint.nih.gov/discover/3DPX-014168">https://3dprint.nih.gov/discover/3DPX-014168</a> ) |
| 2020-              | Reviewer, Arthritis Care & Research                                                                                                                                                                        |
| 2020-              | Reviewer, Clinical Biomechanics                                                                                                                                                                            |
| 2020-              | Reviewer, Medical Engineering & Physics                                                                                                                                                                    |
| 2020-              | Reviewer, Medicine & Science in Sports & Exercise                                                                                                                                                          |
| 2020-              | Reviewer, Annals of Biomedical Engineering                                                                                                                                                                 |
| 2020-              | Reviewer, Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization                                                                                                             |
| 2019-              | Reviewer, Orthopaedic Research Society Annual Meeting 2020-2025: knee topics.                                                                                                                              |
| 2019               | Participant and event photographer, National Biomechanics Day (NBD)                                                                                                                                        |
| 2018-              | Reviewer, Journal of Biomechanics                                                                                                                                                                          |
| 2018               | Event photographer, National Biomechanics Day (NBD)                                                                                                                                                        |
| 2017-              | Reviewer, BioMed Research International                                                                                                                                                                    |
| 2017-              | Reviewer, The Knee                                                                                                                                                                                         |
| 2015-2018          | Official photographer<br>American Society of Biomechanics Annual Meeting                                                                                                                                   |
| 2014               | Local host, scientific laboratory touring for Tsuyama High School students from Japan                                                                                                                      |
| 2014               | Official photographer<br>American Society of Biomechanics at 6 <sup>th</sup> World Congress of Biomechanics 2014, Boston, MA                                                                               |
| 2011               | Official photographer<br>Dr. Savio L-Y. Woo's 70 <sup>th</sup> Birthday, Farmington, PA                                                                                                                    |
| Dec 2007           | Sports Physical Therapist<br>ING Taipei International Marathon, Taipei, Taiwan                                                                                                                             |
| Mar 2006           | Sports Physical Therapist<br>NIKE International Express Marathon 2006, Taipei City, Taiwan                                                                                                                 |
| Aug 2004- Jul 2005 | Minister of the Propagandism Department<br>Student Society of Physical Therapy, China Medical University, Taichung City, Taiwan                                                                            |
| Sep 2003- Jun 2005 | Minister of the Student Dormitory, China Medical University, Taichung City, Taiwan                                                                                                                         |

## Conference Presentations:

1. **Li JS**, Arce-McShane FI. The effect of sensory loss on jaw kinematics and muscle activation during mastication. 10th World Congress of Biomechanics (WCB 2026), Vancouver, Canada. (Oral presentation)
2. **Li JS**, Ramsay SR, Burke AB, Huang GJ, Arce-McShane FI. Novel precise, dynamic mandibular motion tracking method for clinical use. American Association for Dental, Oral, and Craniofacial Research meeting (AADOCR)/CADR annual meeting, New York, USA
3. Williamson R, Ambron E, Knight B, Karrenbach M, **Li JS**, Rombokas E, Coslett HB, Buxbaum LJ. Efficacy and mechanisms of virtual reality treatment of phantom leg pain. International Multisensory Research Forum annual meeting, Reno, NV, USA June 16-20, 2024.
4. **Li JS**, Hudak YF, Cullum S, Strzelecki BM, Richburg CA, Kaufman GE, Abrahamson D, Heckman JT, Ripley BA, Telfer S, Ledoux WR, Muir BC, Aubin PM. Custom 3D printed insole with individualized metamaterials for the diabetic foot. 9th World Congress of Biomechanics (WCB 2022), Taipei, Taiwan. (Virtual oral presentation)
5. Anderson A, Wong R, Shear R, Brewer R, Yuan S, **Li JS**, Kornbluh R, De Souza M, Bach N, Lack W, Kernbaum A, Aubin PM, Libby T. Towards Smart Soft Exosuits for ACL Rehabilitation. Rehab Week 2022, Rotterdam, The Netherlands.
6. **Li JS**, Kindig MW, Muir BC, Kimura T, Sangeorzan BJ, Ledoux WR, Aubin PM. The Effect of Footwear on Stance Phase Hindfoot Range of Motion: a Cadaveric Marker-based Biplane Fluoroscopy Pilot Study. Orthopaedic Research Society 2021 Annual Meeting (Poster and Poster teaser presentation, virtual meeting).
7. **Li JS**, Muir BC, Kindig MW, Kimura T, Sangeorzan BJ, Ledoux WR, Aubin PM. The effect of footwear on hindfoot tracking: A

## Curriculum Vitae (Jing-Sheng Li, continued)

marker-based biplane fluoroscopy study. 42<sup>nd</sup> meeting of the American Society of Biomechanics, USA (virtual meeting).

8. **Li JS**, Tsai TY, Aubin PM, Muir BC, Felson DT, Lewis CL, Li G. Obesity Affected Cartilage Contact Locations during Gait. Orthopaedic Research Society 2019 Annual Meeting, Austin, TA, USA. (Oral presentation)
9. **Li JS**, Tsai TY, Li G, Felson DT, Lewis CL. Cartilage contact in obesity individuals with and without knee pain. 42<sup>nd</sup> meeting of the American Society of Biomechanics, Rochester, MN, USA. (Thematic poster presentation)
10. **Li JS**, Tsai TY, Lewis CL, Felson DT, Li G. Obesity Altered Condylar Motion during Gait. Orthopaedic Research Society 2018 Annual Meeting, New Orleans, LA, USA.
11. **Li JS**, Tsai TY, Lewis CL, Felson DT, Li G. Weight Loss Changed Knee Functions in Obese Individuals with Knee Pain. Orthopaedic Research Society 2018 Annual Meeting, New Orleans, LA, USA.
12. Wang J, Kernkamp WA, **Li JS**, Tsai TY, Li G. Mediolateral Femoral Condyle Heights During In Vivo Weightbearing Motion of Healthy Knees. Orthopaedic Research Society 2018 Annual Meeting, New Orleans, LA, USA.
13. Yu Y, **Li JS**, Tsai TY, Khan K, Cheng L, Li G, Cha T. Level-Dependent Center of Rotation of the Intervertebral Segments of the Subaxial Cervical Spine During Dynamic Neck Motions. Orthopaedic Research Society 2018 Annual Meeting, New Orleans, LA, USA.
14. **Li JS**, Bowes MA, Felson DT, Conaghan PG, Brown C, Neogi T. Racial differences in magnetic resonance image-based three-dimensional bone shape of the femur versus the tibia at the knee: data from the osteoarthritis initiative. OARSI 2017 World Congress, Las Vegas, NV, USA.
15. Jafarzadeh SR, Guermazi A, **Li JS**, Clancy M, Brown C, Felson DT. Assessing mediating effect of bone marrow lesions and synovitis following extreme weight loss on knee pain reduction. OARSI 2017 World Congress, Las Vegas, NV, USA.
16. **Li JS**, Bowes MA, Felson DT, Conaghan PG, Brown C, Neogi T. Racial Differences in Magnetic Resonance Image-Based Three-Dimensional Bone Shape of the Knee: Data from the Osteoarthritis Initiative (OAI). American College of Rheumatology 2016 Annual Meeting. Washington, DC, USA.
17. **Li JS**, Tsai TY, Li G, Felson DT, Lewis CL. Articular Cartilage Contact during Gait in Obese Individuals with Knee Pain. 41<sup>st</sup> meeting of the American Society of Biomechanics, Boulder, CO, USA.
18. **Li JS**, Tsai TY, Kernkamp WA, Varady NH, Felson DT, Lewis CL, Li G. Articular Cartilage Contact Characteristics during Gait in Obese Individuals. Orthopaedic Research Society 2017 Annual Meeting, San Diego, CA, USA.
19. Yin P, **Li JS**, Kernkamp WA, Tsai TY, Hosseini A, Li G. Cartilage Contact Characteristics of the Tibiofemoral Joint during Dynamic Step-up Motion. Orthopaedic Research Society 2017 Annual Meeting, San Diego, CA, USA.
20. Lin L, **Li JS**, Kernkamp WA, Hosseini A, Kim CW, Yin P, Wang L, Tsai TY, Asnis PD, Gill TJ, Li G. Postoperative Time Dependent Tibiofemoral Articular Cartilage Contact Kinematics during Step-up after ACL Reconstruction. Orthopaedic Research Society 2017 Annual Meeting, San Diego, CA, USA.
21. Baek SH, **Li JS**, Kernkamp WA, Asnis PD, Gill TJ, Li G. Altered In-vivo Patellofemoral Kinematics In Anterior Cruciate Ligament Deficiency: a Comparative Study with Healthy Knees during A Step-up Activity. Orthopaedic Research Society 2017 Annual Meeting, San Diego, CA, USA.
22. Yu Y, Mao H, **Li JS**, Tsai TY, Khan K, Cheng L, Wood KB, Li G, Cha TD. Investigation of Cervical Disc Deformation Using Weightbearing and Non-weightbearing References. Orthopaedic Research Society 2017 Annual Meeting, San Diego, CA, USA.
23. Yu Y, Mao H, **Li JS**, Tsai TY, Khan K, Cheng L, Wood KB, Li G, Cha TD. Ranges of Cervical Intervertebral Disc Deformation during In-Vivo Dynamic Flexion-Extension of the Neck. Orthopaedic Research Society 2017 Annual Meeting, San Diego, CA, USA.
24. Varady N, Kernkamp WA, **Li JS**, Wang L, Koga H, Asnis PD, Li G. Biomechanical Effect of PL Tunnel Positioning in Double-Bundle Reconstruction—A 3D Computational Study. Orthopaedic Research Society 2017 Annual Meeting, San Diego, CA, USA.
25. **Li JS**, Tsai TY, Li G, Felson DT, Lewis CL. Cartilage Contact during Gait in an Obese Female: A Case Study. 40<sup>th</sup> meeting of the American Society of Biomechanics, Raleigh, NC, USA.
26. **Li JS**, Tsai TY, Bacon A, Lewis CL, Felson DT, Li G. The Relationship between Gait Pattern in Obese Individuals and Knee Pain Scores. Orthopaedic Research Society 2016 Annual Meeting, Orlando, FL, USA.
27. **Li JS**, Tsai TY, Lewis CL, Li G, Apovian CM, Felson DT. The Relationship between Gait Pattern in Obese Individuals and Knee Pain Scores. Evans Research Day 2016, Boston University, Boston, USA.
28. Mao H, Driscoll SJ, **Li JS**, Li G, Wood KB, Cha TD. Canal Volume Changes in Sub-axial Cervical Spine during In Vivo Dynamic

## Curriculum Vitae (Jing-Sheng Li, continued)

Flexion-Extension. Orthopaedic Research Society 2016 Annual Meeting, Orlando, FL, USA.

29. Mao H, Driscoll SJ, Li JS, Zhong W, Li G, Wood KB, Cha TD. Dimensional Changes of the Neuroforamen in Sub-axial Cervical Spine during In Vivo Dynamic Flexion-Extension. Orthopaedic Research Society 2016 Annual Meeting, Orlando, FL, USA.
30. Zhong W, Zhan Liu, Tsai TY, Li JS, Yan Yu, Wood KB, Cha TD, Li G. In-vivo Dimensional Changes of Lumbar Intervertebral Foramens in Patients with Degenerative Disc Disease during flexion-extension motion. Orthopaedic Research Society 2016 Annual Meeting, Orlando, FL, USA.
31. Zhan Liu, Tsai TY, Wang S, Zhong W, Li JS, Thomas Cha, Kirkham Wood, Li G. Instantaneous Rotation Center of Lower Lumbar Vertebral Segments during Weight-Lifting. Orthopaedic Research Society 2016 Annual Meeting, Orlando, FL, USA.
32. Tsai TY, Li JS, Hosseini A, Dimitriou D, Andrew A. Freiberg, Rubash HE, Li G, Kwon YM. Does In-Vivo Contact Kinematics of Bi-Cruciate Retaining Total Knee Arthroplasty Mimic Normal Knee during Gait?. Orthopaedic Research Society 2016 Annual Meeting, Orlando, FL, USA.
33. Tsai TY, Dimitriou D, Li JS, Hosseini A, Liow MHL, Li G, Kwon YM. Asymmetric In Vivo Knee Kinematics in Unilateral Bi-Cruciate Retaining Total Knee Arthroplasty Patients during Gait. Orthopaedic Research Society 2016 Annual Meeting, Orlando, FL, USA.
34. Tsai TY, Li JS, Dimitriou D, Hosseini A, Liow MHL, Li G, Kwon YM. High-Flexion Lunging and Sit-to-Stand In-Vivo Knee Kinematics Analysis in Patients with Bi-Cruciate Retaining Total Knee Arthroplasty. Orthopaedic Research Society 2016 Annual Meeting, Orlando, FL, USA.
35. Tsai TY, Hosseini A, Li JS, Dimitriou D, Liow MHL, Li G, Kwon YM. In-Vivo Articular Contact Kinematic Analysis during Strenuous Functional Activities in Patients with Bi-Cruciate Retaining Total Knee Arthroplasty. Orthopaedic Research Society 2016 Annual Meeting, Orlando, FL, USA.
36. Tsai TY, Dimitriou D, Li JS, Hosseini A, Liow MHL, Li G, Kwon YM. In-Vivo 6-DOF Knee Kinematics during High Flexion Lunge: Comparison of Bi-Cruciate Retaining Total Knee Arthroplasty and Normal Healthy Knees. Orthopaedic Research Society 2016 Annual Meeting, Orlando, FL, USA.
37. Tsai TY, Li JS, Dimitriou D, Hosseini A, Liow MHL, Li G, Kwon YM. In-Vivo Elongation of Anterior and Posterior Cruciate Ligament in Patients with Bi-Cruciate Retaining Total Knee Arthroplasty during Sit-to-Stand. Orthopaedic Research Society 2016 Annual Meeting, Orlando, FL, USA.
38. Tsai TY, Dimitriou D, Li JS, Hosseini A, Liow MHL, Li G, Kwon YM. Comparison of In-Vivo 6-DOF Knee Kinematic between Osteoarthritic and Normal Healthy Knees during High Flexion Lunge. Orthopaedic Research Society 2016 Annual Meeting, Orlando, FL, USA.
39. Feng Y, Tsai TY, Li JS, Kwon YM, C Zhang, Rubash HE, Li G. In-vivo Analysis of Flexion Axes of the Knee: Femoral Condylar Motion during Dynamic Knee Flexion. Orthopaedic Research Society 2016 Annual Meeting, Orlando, FL, USA.
40. Li JS, Hosseini A, Li C, Yang F, Chawla A, Gill TJ, Li G. In-vivo Kinematics of the Knee 3-Years after ACL Reconstruction. Orthopaedic Research Society 2015 Annual Meeting, Las Vegas, NV, USA. (podium presentation).
41. Li JS, Tsai TY, Brenzel K, Ahn YJ, Felson DT, Li G, Lewis CL. Three-Dimensional Knee Joint Kinematics in Obese Individuals with Knee Pain during Treadmill Gait. Orthopaedic Research Society 2015 Annual Meeting, Las Vegas, NV, USA.
42. Feng Y, Tsai TY, Li JS, Wang S, Hu H, Zhang C, Rubash HE, Li G. Axial Rotation Center of the Knee Changes along the Flexion-Extension Path. Orthopaedic Research Society 2015 Annual Meeting, Las Vegas, NV, USA.
43. Feng Y, Tsai TY, Li JS, Wang S, Hu H, Zhang C, Rubash HE, Li G. Condyle Motion Characteristics of the Knee during Dynamic Flexion-Extension. Orthopaedic Research Society 2015 Annual Meeting, Las Vegas, NV, USA.
44. Feng Y, Tsai TY, Li JS, Liu X, Hu H, Zhang C, Li G. Elongation of the Anteromedial and Posterolateral Bundles of the ACL during Hyper-extension of the Knee: Implication to Double-Bundle ACL Reconstruction. Orthopaedic Research Society 2015 Annual Meeting, Las Vegas, NV, USA.
45. Zhong W, Driscoll SJ, Tsai TY, Wang S, Li JS, Liu Z, Cha TD, Wood KB, Li G. In-vivo Dynamic Changes of Dimensions in the Lumbar Intervertebral Foramen. Orthopaedic Research Society 2015 Annual Meeting, Las Vegas, NV, USA.
46. Tsai TY, Dimitriou D, Li JS, Nam KW, Li G, Kwon YM. Does Unicompartmental Knee Arthroplasty Component Alignment Affect In-Vivo Articular Contact at Standing Position? Orthopaedic Research Society 2015 Annual Meeting, Las Vegas, NV, USA.
47. Tsai TY, Li JS, Dimitriou D, Rubash H, Li G, Kwon YM. Asymmetrical Hip Kinematics during Gait in Unilateral Total Hip Arthroplasty Patients. Orthopaedic Research Society 2015 Annual Meeting, Las Vegas, NV, USA.
48. Tsai TY, Dimitriou D, Li JS, Nam KW, Li G, Kwon YM. Does Component Alignment Affect Gait Symmetry in Unilateral Total

## Curriculum Vitae (Jing-Sheng Li, continued)

Hip Arthroplasty Patients? Orthopaedic Research Society 2015 Annual Meeting, Las Vegas, NV, USA.

49. Dimitriou D, Tsai TY, Li JS, Park KK, Nam KW, Rubash H, Li G, Kwon YM. In Vivo kinematic evaluation of cementless metal-on-polyethylene Total Hip Arthroplasty during dynamic and static activities. Orthopaedic Research Society 2015 Annual Meeting, Las Vegas, NV, USA.
50. Nam KW, Dimitriou D, Tsai TY, Li JS, Park KK, Rubash H, Li G, Kwon YM. Does Knee Osteoarthritis Affect the Femoral Component Position during Total Hip Arthroplasty? 3D Model Analysis. Orthopaedic Research Society 2015 Annual Meeting, Las Vegas, NV, USA.
51. Li JS, Tsai TY, Lewis CL, Li G, Apovian CM, Felson DT. Three-Dimensional Knee Joint Kinematics in Obese Individuals with Knee Pain during Treadmill Gait. Evans Research Day 2015, Boston University, Boston, USA.
52. Tsai TY, Dimitriou D, Li JS, Li G, Kwon YM. Does Gait Asymmetry following Unilateral Total Hip Arthroplasty Correlate with Component Positioning? American Association of Hip and Knee Surgeons 24th Annual Meeting, November 6-9, 2014, Dallas, USA.
53. Li C, Hosseini A, Tsai TY, Kwon YM, Li JS, Li G. How Does the Articular Contact Kinematics of the Knee Change Before and After Cruciate Retaining Total Knee Arthroplasty? World Congress of Biomechanics 2014, Boston, USA.
54. Tsai TY, Li JS, Scarborough D, Rubash H, Li G, Kwon YM. How much Hip Extension does Really Occur during Gait in Patients with Total Hip Arthroplasty? World Congress of Biomechanics 2014, Boston, USA.
55. Li JS, Tsai TY, Wang S, Li P, Kwon YM, Rubash H, Li G. Prediction of in-vivo Knee Joint Kinematics using a Statistical Shape Modeling. World Congress of Biomechanics 2014, Boston, USA.
56. Tiberi JV, Cakmak S, Goldvasser D, Tsai TY, Li JS, Freiberg AA, Malchau H, Rubash HE, Kwon YM. What is the Fate of "Malpositioned" Acetabular Components When Evaluated in the Standing Position? AAOS 2014 Annual Meeting, New Orleans, LA, USA.
57. Tsai TY, Li JS, Scarborough D, Malchau H, Rubash H, Li G, Kwon YM. How much Hip Extension does Really Occur during Gait in Patients with Total Hip Arthroplasty? AAOS 2014 Annual Meeting, New Orleans, LA, USA.
58. Cha TD, Li JS, Tsai TY, Driscoll SJ, Wu M, Wang S, Li G, Wood KB. Development of a Non-invasive Dual-Fluoroscopic Imaging System for Measuring In-vivo Cervical Spine Motion. AAOS 2014 Annual Meeting, New Orleans, LA, USA.
59. Tsai TY, Li JS, Wang S, Scarborough D, Malchau H, Rubash H, Li G, Kwon YM. Does In-Vivo Separation of the Hip Joint Occur during Gait in Patients with Well-functioning Metal-on-Polyethylene Total Hip Arthroplasty? ORS 2014 Annual Meeting, New Orleans, LA, USA.
60. Tsai TY, Li JS, Wang S, Scarborough D, Malchau H, Rubash H, Li G, Kwon YM. How Much Hip Range of Motion does Really Occur during Walking in Patients with Total Hip Arthroplasty? ORS 2014 Annual Meeting, New Orleans, LA, USA.
61. Tsai TY, Li JS, Wang S, Li P, Kwon YM, Li G. Accuracy and Efficiency of Statistical Shape Modeling in Construction of Subject-Specific 3D Knee Joint Models. ORS 2014 Annual Meeting, New Orleans, LA, USA.
62. Li P, Tsai TY, Li JS, Zhang Y, Kwon YM, Li G. Race and Gender Effects on Morphological Measurement of the Knee. ORS 2014 Annual Meeting, New Orleans, LA, USA.
63. Li P, Tsai TY, Li JS, Wang S, Zhang Y, Rubash HE, Kwon YM, Li G. Gender Analysis of the Anterior Femoral Condyle Geometry of the Knee. ORS 2014 Annual Meeting, New Orleans, LA, USA.
64. Li JS, Tsai TY, Wang S, Li P, Kwon YM, Rubash HE, Li G. Prediction of in-vivo Knee Joint Kinematics using a Statistical Shape Modeling. ORS 2014 Annual Meeting, New Orleans, LA, USA.
65. Li C, Hosseini A, Li JS, Tsai TY, Kwon YM, Rubash HE, Li G. In vivo kinematic features of the knee after cruciate-retaining TKA during weight-bearing flexion. ORS 2014 Annual Meeting, New Orleans, LA, USA.
66. Li JS, Hosseini A, Li C, Yang F, Chawla A, Gill TJ, Li G. Kinematics of Knee is not Restored 3-Years after ACL Reconstruction. 67th Annual Meeting of the MGH Scientific Advisory Committee, Boston, USA. Apr 2, 2014. (Poster presentation)
67. Li G, Tsai TY, Li JS, Wang S, Lin H, Malchau H, Kwon YM. Innovative Investigation of Native and Artificial Hip Kinematics Using Dual Fluoroscopic Imaging System. 2013 the 39th Annual Meeting of Japanese Hip Society, Niigata, Japan.
68. Tsai TY, Li JS, Wang S, Lin H, Malchau H, Li G, Kwon YM. A Novel Dual Fluoroscopy Imaging for Determination of Native Hip and THA Kinematics. 2013 MGH Research Day, Boston, USA.
69. Tsai TY, Li JS, Wang S, Scarborough D, Malchau H, Li G, Kwon YM. A Novel Non-Invasive Evaluation of In-Vivo Hip Kinematics in Patients with Total Hip Arthroplasty during Functional Activity. 2013 MGH Research Day, Boston, USA.
70. Li JS, Hosseini A, Ryan N, Cancre L, Rubash HE, Li G. Motion Characteristics of the Knee during Step-up Activity. ORS 59th Annual Meeting, San Antonio, USA. Jan 26-29, 2013. (podium presentation in one of the spotlight sessions)

## Curriculum Vitae (Jing-Sheng Li, continued)

71. Tsai TY, Li JS, Wang S, Lin H, Malchau H, Li G, Kwon YM. A Novel Dual Fluoroscopy Imaging Determination of In-vivo Kinematics in Native Hip and THA. ORS 59th Annual Meeting, San Antonio, USA. Jan 26-29, 2013.
72. Kikuta S, Li JS, Hosseini A, Ryan N, Gill TJ, Li G. In-vivo Elongation of the Anterior Cruciate Ligament (ACL) and Posterior Cruciate Ligament (PCL) during a dynamic Step-up Activity. ORS 59th Annual Meeting, San Antonio, USA. Jan 26-29, 2013.
73. Qi W, Hosseini A, Li JS, Tsai TY, Rubash HE, Li G. In Vivo Kinematics of the Knee during Weight Bearing High Flexion. ORS 59th Annual Meeting, San Antonio, USA. Jan 26-29, 2013.
74. Li JS, Hosseini A, Finn R, Cancre L, Gill TJ, Li G. Injury Combined with Medial or Lateral Meniscus Tear Altered the Knee Joint Kinematics Differently. ORS 58th Annual Meeting, San Francisco, USA. Feb 4-7, 2012.
75. Hosseini A, Li JS, Patal K, Varada S, Gill TJ, Li G. Does the Side of Meniscus Injury Affect the Tibiofemoral Cartilage Contact in ACL-deficient Patients? ORS 58th Annual Meeting, San Francisco, USA. Feb 4-7, 2012.
76. Suzuki T, Hosseini A, Li JS, Gill TJ, Li G. In-Vivo Kinematics of Patellofemoral Joint during Dynamic Stair Ascending. ORS 58th Annual Meeting, San Francisco, USA. Feb 4-7, 2012.
77. Li H, Hosseini A, Li JS, Gill TJ, Li G. Quantitative Magnetic Resonance Imaging (MRI) Morphological Analysis for Knee Cartilages in Healthy and Anterior Cruciate Ligament-injured Knees. ORS 58th Annual Meeting, San Francisco, USA. Feb 4-7, 2012.
78. Chen CH, Li JS, Hosseini A, Gadikota HR, Kozanek M, Gill TJ, Li G. Tibiofemoral Kinematics during the Stance Phase of Gait in the Normal and ACL Deficient Knees. SBC 2011, Farmington, Pennsylvania, USA. Jun 22-25, 2011. (Oral Presenter)
79. Chen CH, Gadikota HR, Hosseini A, Li JS, Kozanek M, Van de Velde DK, Gill TJ, Li G. Tibiofemoral Kinematics during the Stance Phase of Gait in the Normal and ACL Deficient Knees. ORS 57th Annual Meeting, Long Beach, California, USA. Jan 13-16, 2011.
80. Lin KJ, Liu YL, Huang CH, Chen WC, Li JS, Chang TW, Cheng CK. Influence of femoral cam shape on axial tibiofemoral rotation in posterior-stabilized TKA. ORS 57th Annual Meeting, Long Beach, California, USA. Jan 13-16, 2011.
81. Liu YL, Huang CH, Lin KJ, Chen WC, Chen CH, Yeh WL, Li JS, Chang TW, Cheng CK. Anatomic-Like Articular Surface of Tibial Insert Enhance Knee Kinematics-Computational Assessment. ORS 57th Annual Meeting, Long Beach, California, USA. Jan 13-16, 2011.
82. Chen WC, Chen HH, Chang TW, Liu YL, Lin KJ, Lai HJ, Huang CH, Li JS, Lai YS, Cheng CK. Load Sharing Effect of Spine will Influence the Biomechanical Performances of Implants and Contact Behavior in Spinal Fusion -Finite Element Study for Adequate Numbers of Vertebral Structures Required in Analysis. ORS 57th Annual Meeting, Long Beach, California, USA. Jan 13-16, 2011.
83. Chen WC, Lin KJ, Chen HH, Lai HJ, Chang TW, Huang CH, Li JS, Liu YL, Lai YS, Cheng CK. Positioning Effect of Artificial Disc on Postoperative Motion Pattern in Sagittal Plane. ORS 57th Annual Meeting, Long Beach, California, USA. Jan 13-16, 2011.
84. Li JS, Lin KJ, Chen WC, Yang, CB, Wei HW, Wang DJ, Cheng CK. Contact characteristics during different high flexion activities of the knee- preliminary report. ORS 56th Annual Meeting, New Orleans, Louisiana, USA. Mar 6-9, 2010.
85. Li JS, Lin KJ, Chen WC, Wei HW, Cheng CK. Contact characteristics during different high flexion activities of the knee. The 13th International Conference on Biomedical Engineering. Singapore. Dec 3-6, 2008.
86. Li JS, Lin HC, Lo SF, Wu KL. Isokinetic characteristics of shoulder rotators in patients with adhesive capsulitis. Proceedings of 53th Conference of PTAROC. Taichung, Taiwan. Sep. 24, 2006.
87. Chen SY, Lin HC, Wu HW, Pan HF, Li CS (Li JS), Hsu HC. The alterations trajectory of center of mass when negotiating obstacles with different heights in the older adults. 28th meeting of the American Society of Biomechanics. Portland, Oregon, USA. Sep 8-11, 2004.
88. Lin HC, Chen SY, Wu HW, Pan HF, Li CS (Li JS), Hsu HC. The relations between muscle strength and movement of center of mass of the body during obstacle negotiation in the community-dwelling older adults. 28th meeting of the American Society of Biomechanics. Portland, Oregon, USA. Sep 8-11, 2004.