TEXAS STATE VITA

I. Academic/Professional Background

A. Name: Yumeng Li Title: Associate Professor

B. Educational Background

Degree	*Year*	*University*	*Major*	*Thesis/Dissertation*
PhD	2016	University of Georgia	Kinesiology	Can Chronic Ankle Instability Affect Knee Biomechanics and Muscle Activations for Females?
MSc	2012	University of Manitoba	Kinesiology	Kinematic Comparisons of Kick Directions during the Instep Soccer Penalty Kick.
BEd	2010	Beijing Sport University	Sports Science	The Effect of Different Leg Stroke on Breaststroke Swimming Speed.

C. University Experience

Position	*University*	*Dates*
Associate Professor	Texas State University	09/2022 – Present
Visiting Professor	University of Vienna	08/2024 – 01/2025
Assistant Professor	Texas State University	08/2018 – 08/2022
Assistant Professor	California State University, Chico	08/2016 – 07/2018
Lab Instructor	University of Georgia	08/2014 – 05/2016
PE Instructor	University of Georgia	08/2012 – 05/2014
Lab Instructor	University of Manitoba	08/2010 – 05/2012

D. Relevant Professional Experience

E. Other Professional Credentials (licensure, certification, etc.)
Certified Rescuer, American Heart Association CPR/AED

II. TEACHING

A. Teaching Honors and Awards:

B. Courses Taught:

Texas State University
ESS 3320 Biomechanics

ESS 5309 Biomechanics for Exercise & Sports Science
ESS 5110 Graduate research seminar
ESS 5347 Independent study
ESS 5320 Biomechanics
ESS 5356 Statistics
ESS 7309 Biomechanics

California State University, Chico
KINE 322 Biomechanics
KINE 524 Biomechanical Analysis

University of Georgia
KINS 4200L Biomechanics lab

C. Directed Student Learning (i.e. theses, dissertations, exit committees, etc.):

Texas State University

Supervisor, culminating project (Angel Arturo Rojas, 2024)
Project: Efficacy of pre-operative physical therapy on total knee replacements: a systematic review.

Member, master's thesis committee (Tessa Herbert, 2023)
Thesis: Sex differences in the effects of obesity on femoral morphology.

Chair, graduate comprehensive exam committee (Janviben Parmar, 2023)
Project: methodology and biomechanics exam.

Member, graduate comprehensive exam committee (Faith Oyesanmi, 2023)
Project: clinical exercise physiology and biomechanics exam.

Member, graduate comprehensive exam committee (Jyosna Battina, 2023)
Project: motor learning and biomechanics exam.

Supervisor, culminating project (Nicholas Kelly, 2023)
Project: Machine learning: Diagnosis of postural control in children with autism.

Chair, graduate comprehensive exam committee (Janaya Mata, 2022)
Project: Motor behavior and biomechanics exam.

Member, graduate comprehensive exam committee (Rishab Sharma, 2022)
Project: Neuromuscular physiology and biomechanics exam.

Member, graduate comprehensive exam committee (Josh Perez, 2022)
Project: Neuromuscular physiology and biomechanics exam.

Member, graduate comprehensive exam committee (Ben Parker, 2022)
Project: Neuromuscular physiology and biomechanics exam.

Member, graduate comprehensive exam committee (Rebecca Rangel, 2022)
Project: Neuromuscular physiology and biomechanics exam.

Supervisor, culminating project (Andres Da Silva Savino, 2021)
Project: Development of postural control in children.

Member, graduate comprehensive exam committee (Farooq Deep, 2021)
Project: Neuromuscular physiology and biomechanics exam.

Committee member, culminating project (Erin Swaim, 2021)
Project: Gait analysis in individuals with femoral-acetabular impingement.

Supervisor, culminating project (Alberto Camacho-Valladares, 2020)
Project: Quadriceps to hamstring co-activation ratios during different closed chain exercises.

Member, graduate comprehensive exam committee (Carrie Venuti, 2019)
Project: Postural stability and control in children with autism.

Member, master's thesis committee (Jordan Legendre, 2019)
Thesis: Role of dynamic postural control using functional movement assessments in individuals with chronic ankle instability.

Member, master's thesis committee (Areum Han, 2019)
Thesis: A study of leisure walking on mental health and health perception among older adults.

University of Georgia
Undergraduate Research Advisor (Cris Escalera, 2015)
Project: Center for Undergraduate Research Opportunities (CURO) Funded Research: How does running speed affect healthy spine movement during running?

Undergraduate Research Advisor (Eric Kure, 2015)
Project: Center for Undergraduate Research Opportunities (CURO) Funded Research: How does trunk flexibility affect spine motion during running?

D. Courses Prepared and Curriculum Development:

Texas State University
- ESS 3320 Biomechanics
- ESS 5309 Biomechanics for Exercise & Sports Science
- ESS 5110 Graduate research seminar
  - ESS 5347 Independent study
  - ESS 5320 Biomechanics
  - ESS 5356 Statistics
- ESS 7309 Biomechanics

California State University, Chico
- KINE 322 Biomechanics
- KINE 524 Biomechanical Analysis

University of Georgia
KINS 4200L Biomechanics lab

E. Teaching Grants and Contracts

1. Funded External Teaching Grants and Contracts:

2. Submitted, but not Funded, External Teaching Grants and Contracts:

3. Funded Internal Teaching Grants and Contracts:

4. Submitted, but not Funded, Internal Teaching Grants and Contracts:

F. Other:

G. Teaching Professional Development Activities Attended

Teaching Online Certificate, Office of Distance and Extended Learning, Texas State University, 2020

Promoting Active Learning and Research (PALIR) Phase III: Professional Development Program (Active Learning in Large Classrooms), series of 5 workshops, Texas State University, Fall 2019

III. SCHOLARLY/CREATIVE

A. Works in Print (including works accepted, forthcoming, in press):

1. Books:

a. Scholarly Monographs:

b. Textbooks:

c. Edited Books:

d. Chapters in Books:

e. Creative Books:

2. Articles:

a. Refereed Journal Articles:

Nachega, M., Yahaya, S., Wallace, I., Liu, T., Valles, D., Koldenhoven, R., & **Li, Y.** (2024). Enhancing early diagnosis of autism with machine learning algorithms using postural control features. *2024 IEEE Annual Ubiquitous Computing, Electronics & Mobile Communication Conference (UEMCON)*, pp.593-598. https://doi.org/10.1109/UEMCON62879.2024.10754700

Rafiq, S., Ellsworth, E., Resendiz, O., Varanasi, S., Ishola, A., Koldenhoven, R., Farrell, J. W., **Li, Y.**, Resendiz, M. D., Aslan, S., Liu, T., & Valles, D. (2024). Design of autonomous rover for firefighter rescue: integrating deep learning with ROS2. *2024 IEEE World AI IoT Congress (AIIoT)*, 2024 IEEE World. https://doi.org/10.1109/AIIoT61789.2024.10578950

Smith, E., Koldenhoven, R., Farrell, J. W., Aslan, S., Resendiz, M. D., **Li, Y.**, Liu, T., & Valles, D. (2024). Development of an augmented reality handwashing tool for children with autism spectrum disorder. *2024 IEEE Computing and Communication Workshop and Conference (CCWC)*. https://doi.org/10.1109/CCWC60891.2024.10427963

Liu, T., Tongish, M., **Li, Y.** *et al.* (2023). Executive and motor function in children with autism spectrum disorder. *Cognitive Processing*. https://doi.org/10.1007/s10339-023-01156-y

Valles, D., Umali, L. A. R., Paveglio, T., Brinson, J. N., Hyder, M., Jackson, G. E., Hall, D., Farrell, J. W., **Li, Y.**, Aslan, S., Resendiz, M. D., & Liu, T. (2023). Data collection and real-time facial emotion recognition in iOS Apps with CNN-based models. *2023 IEEE World AI IoT Congress (AIIoT)*, 2023 IEEE World, 0669–0677. https://doi.org/10.1109/AIIoT58121.2023.10174520

Kakar, R.S., Higgins, S., Tome, J.M., Knight, N., Finer, Z., Doig, Z., & **Li, Y.** (2022). Effect of age on thoracic, lumbar and pelvis coordination during trunk flexion and extension. *Journal of Applied Biomechanics.* https://doi.org/10.1123/jab.2021-0281

Lysdal, F.G., Wang, H.Y., Delahunt, E., Gehring, D., Kosik, K.B., Krosshaug, T., **Li, Y.**, Mok, K.M., Pasanen, K., Remus, A., Terada, M., & Fong, D.T.P. (2022). What have we learnt from quantitative case reports of acute lateral ankle sprains injuries and episodes of "giving way" of the ankle, and what shall we further investigate? *Sports Biomechanics. 21*:4, 359-379. https://doi.org/10.1080/14763141.2022.2035801

Li, Y., Liu, T., & Venuti, C. (2021). Development of postural stability in children with autism spectrum disorders: a cross-sectional study. *International Biomechanics. 8*:1, 54-62. https://doi.org/10.1080/23335432.2021.1968316

Li, Y., Koldenhoven, R., Jiwan, N., Zhan, J., & Liu, T., (2021). Intra-trunk and shoulder coordination of rowing displayed by Olympic athletes. *Sports Biomechanics.* https://doi.org/10.1080/14763141.2020.1883728

Walker, M.A., **Li, Y.**, Samson, C.O., Simpson, K.J., Foutz, T., & Brown, C.N. (2021). Differences in trunk range of motion for various flexibility protocol types, particularly in quarterbacks wearing rib protectors. *Sports Orthopaedics and Traumatology.* https://doi.org/10.1016/j.orthtr.2020.11.001

Li, Y., Koldenhoven, R., Liu, T., & Venuti, C. (2021). Development of gait in children with autism spectrum disorders. *Gait and Posture. 28*, 260-266. https://doi.org/10.1016/j.gaitpost.2020.12.022

Li, Y., Ko, J., Walker, M., Brown, C.N., & Simpson, K.J. (2021). Joint coordination and stiffness during landing in individuals with chronic ankle instability. *Journal of Applied Biomechanics.* https://doi.org/10.1123/jab.2020-0272

Li, Y., Mache, M.A., & Todd, T.A. (2020). Automated identification of postural control for children with autism spectrum disorder using a machine learning approach. *Journal of Biomechanics.* https://doi.org/10.1016/j.jbiomech.2020.110073

Li, Y., Koldenhoven, R., Jiwan, N., Zhan, J., & Liu, T. (2020). Trunk and shoulder kinematics of rowing displayed by Olympic athletes. *Sports Biomechanics.* https://doi.org/10.1080/14763141.2020.1781238

Li, Y., Zhang, S., & Odeh, C. (2020). Automated identification of postural control for individuals with Parkinson's disease using a machine learning approach. *Journal of Applied Biomechanics.* https://doi.org/10.1123/jab.2019-0400

Walker, M.A., **Li, Y.**, Samson, C.O., Simpson, K.J., Foutz, T., & Brown, C.N. (2020). The effect of rib protector garments on trunk kinematics, performance, and perceptions of quarterbacks during and overhand American football throw. *International Journal of Sports Science, 10*(1), 23-29. https://doi.org/10.5923/j.sports.20201001.04

Ko, J., Wikstrom, E., **Li, Y.**, Weber, M., & Brown, C.N. (2019). Performance differences between the modified star excursion balance test and the Y-balance test in individuals with chronic ankle instability. *Journal of Sport Rehabilitation.* https://doi.org/10.1123/jsr.2018-0078

Li, Y., Wang, H., & Simpson, K.J. (2019). Chronic ankle instability does not influence tibiofemoral contact forces during drop landings using a musculoskeletal model. *Journal of Applied Biomechanics.* https://doi.org/10.1123/jab.2018-0436

Zhang, S., **Li, Y.**, & Li, L. (2019). Running ground reaction force complexity at the initial stance phase increased with aging. *Sports Biomechanics.* https://doi.org/10.1080/14763141.2019.1596300

Li, Y., Mache, M.A., & Todd, T.A. (2019). Complexity of center of pressure in postural control for children with autism spectrum disorders was partially compromised. *Journal of Applied Biomechanics.* https://doi.org/10.1123/jab.2018-0042

Kakar, R.S., **Li, Y.**, Brown, C.N., Oswald, T.S., & Simpson, K.J. (2019). Spine and lower extremity kinematics during running by adolescent idiopathic scoliosis patients with spinal fusion. *Spine Deformity, 7*(2), 254-261. https://doi.org/10.1016/j.jspd.2018.08.015

Li, Y., Kakar, R.S., Fu, Y-C., Walker, M., Brown, C.N., Oswald, T.S., & Simpson, K.J. (2018). Postural control of individuals with spinal fusion for adolescent idiopathic scoliosis. *Clinical Biomechanics.* https://doi.org/10.1016/j.clinbiomech.2018.11.001

Li, Y., Ko, J., Walker, M., Brown, C.N., Schmidt, J.D., Kim, S., & Simpson, K.J. (2018). Does chronic ankle instability influence landing knee biomechanics of females? *International Journal of Sports Medicine.* https://doi.org/10.1055/s-0044-102130

Li, Y., Kakar, R.S., Walker, M., Guan, L., & Simpson, K.J. (2018). Upper trunk – pelvis coordination during running using the continuous relative Fourier phase method. *Journal of Applied Biomechanics, 34*(3), 312-319. https://doi.org/10.1123/jab.2017-0250

Li, **Y.**, Kakar, R.S., Fu, Y-C., Mahoney, O.M., Kinsey, T.L., & Simpson, K.J. (2018). Knee strength, power and stair performance of elderly five years after unicompartmental knee arthroplasty. *European Journal of Orthopaedic Surgery & Traumatology, 28*(7), 1411-1416. https://doi.org/10.1007/s00590-018-2198-7

Li, Y., Ko, J., Zhang, S., Brown, C.N., & Simpson, K.J. (2018). Biomechanics of ankle 'giving way': a case report of accidental ankle 'giving way' during the drop landing test. *Journal of Sport and Health Science.* https://doi.org/10.1016/j.jshs.2018.01.002

Li, Y., Ko, J., Walker, M., Brown, C.N., Schmidt, J.D., Kim, S., & Simpson, K.J. (2018). Does chronic ankle instability influence lower extremity muscle activation of females during landing? *Journal of Electromyography and Kinesiology, 38*, 81 – 87. https://doi.org/10.1016/j.jelekin.2017.11.009

Kakar, R.S., **Li, Y.**, Brown, C.N., Kim, S., Oswald, T.S., & Simpson, K.J. (2018). Spine kinematics exhibited during the stop-jump by physically-active individuals with adolescent idiopathic scoliosis and spinal fusion. *The Spine Journal, 18*(1), 155-163 https://doi.org/doi:10.1016/j.spinee.2017.08.221

Li, Y., Simpson, K.J., Nolan, L, Miller, M., & Johnson, B. (2018). Lower extremity kinematics exhibited by unilateral transtibial amputation athletes during curve sprinting. *Journal of Sports Sciences, 36*(3), 293-302. https://doi.org/10.1080/02640414.2017.1303186

Li, Y., Kakar, R.S., Walker, M., Fu, Y-C., Oswald, T.S., Brown, C.N., & Simpson, K.J. (2017). Intra-trunk coordination exhibited during treadmill running by individuals with spinal fusion for adolescent idiopathic scoliosis. *Journal of Applied Biomechanics, 33*(6), 437–445. https://doi.org/10.1123/jab.2017-0085

Li, Y., Guan, L., Ko, J., Zhang, S., Brown, C. N., & Simpson, K. J. (2017). Cross-cultural adaptation and validation of an ankle instability questionnaire for use in Chinese-speaking population. *Journal of Sport and Health Science*. https://doi.org/10.1016/j.jshs.2017.04.003

Li, Y. (2017). Surface EMG analysis of biceps brachii fatigue during isometric contraction: a preliminary study. *Journal of Bones and Muscles Study, 1*(2), 41-44. https://doi.org/10.29199/2637-7039/BOMS-101020

Li, Y., Alexander, M.J.L., Glazebrook, C.M., & Leiter, J. (2016). Quantifying inter-segmental coordination during the instep soccer kicks. *International Journal of Exercise Science, 9*(5), 646 – 656. PMID: 27990225

Li, Y., Alexander, M.J.L., Glazebrook, C.M., & Leiter, J. (2015). Prediction of kick direction from kinematics during the soccer penalty kick. *International Journal of Kinesiology and Sports Science, 3*(4), 1 – 7. https://doi.org/10.7575/aiac.ijkss.v.3n.4p.1

b. Non-refereed Articles:

Alexander, M.J.L., Hill, D., **Li, Y.**, & Hayward, J. (2011). The bicycle slide in water polo: a description. *WaterPoloTraining.com.*

Alexander, M.J.L., Hayward, J., & **Li. Y.** (2010). The role of hip rotation in freestyle swimming. *Coachesinfo.com.*

3. Conference Proceedings:

a. Refereed Conference Proceedings:

Li, Y., Koldenhoven, R., Jiwan, N., Zhan, J., & Liu, T. (2024). Automated rower assignment to rowing events: a machine learning approach. *Proceedings of the 42nd International Conference of Biomechanics in Sports*. (Vol 42: Iss.1). Salzburg, Austria: International Society of Biomechanics in Sports.

Swaim, E., Rodriques, K., **Li, Y.**, Knudson, D., & Koldenhoven, R. M. (2023). Walking kinematics, kinetics, and muscle activation with and without femoroacetabular impingement. *Journal of Athletic Training*, 58(6S), S-60.

Li, Y., Wang, H., & Simpson, K.J. (2020). Chronic ankle instability does not influence tibiofemoral contact forces during drop landings using a musculoskeletal model. *Proceedings of the 13th Conference on the International Sports Engineering Association.* Tokyo, Japan. https://doi.org/10.3390/proceedings2020049005

Li, Y., Walker, M., Ko, J., Schmidt, J.D., Brown, C.N., & Simpson, K.J. (2016). Lower extremity biomechanics of an ankle 'giving way' case during the drop landing. *Proceedings of the 34th International Conference of Biomechanics in Sports*. (pp. 299-302). Tsukuba, Japan: International Society of Biomechanics in Sports.

Li, Y., Simpson, K.J., Nolan, L., & Miller, M. (2015). Curve sprinting kinematics exhibited by athletes using a single, trans-tibial prosthesis. *Proceedings of the 33rd International Conference of Biomechanics in Sports*. (pp. 410-413). Poitiers, France: International Society of Biomechanics in Sports.

Li, Y., Walker, M., Kakar, R.S., & Simpson, K.J. (2015). Upper trunk-pelvis axial rotation coordination during treadmill running. *Proceedings of the 33rd International Conference of Biomechanics in Sports*. (pp. 1054-1057). Poitiers, France: International Society of Biomechanics in Sports.

b. Non-refereed:

4. Abstracts:

5. Reports:

6. Book Reviews:

7. Essays:

8. Poems:

9. Short Stories:

10. Other Works in Print:

B. Works Not in Print:

1. Papers Presented at Professional Meetings:

Harter, R., Legendre, J., Farnsworth, J., & **Li, Y.** (2021). Functional movement assessments to evaluate dynamic postural control in persons with chronic ankle instability. *American College of Sports Medicine Annual Meeting. San Diego, CA.*

Singh, A., Tome, J., **Li, Y.**, Doig, Z., & Kakar, R.S. (2020). Lumbopelvic rhythm prediction using machine learning and its use as a biomarker for low back pain identification. *2018 American College of Sports Medicine Annual Meeting, San Francisco, CA.*

Li, Y., Zhang, S., & Odeh, C. (2019). Machine learning algorithms could be used to detect postural control patterns for individuals with Parkinson's disease. *2019 International Engineering in Medicine and Biology Conference, Berlin, Germany.*

Li, Y., Zhang, S., Odeh, C., & Guan, L. (2019). Automated identification of postural control for individuals with Parkinson's disease using a machine learning approach. *American College of Sports Medicine Annual Meeting, Orlando, FL.*

Kakar, R.S., Tome, J.M., Knight, N., Finer, Z., & **Li, Y.** (2019). Effect of age on thoracic, lumbar and pelvis coordination during trunk flexion and extension. *2019 Congress of the International Society of Biomechanics, Calgary, Canada.*

Li, Y., Mache, M.A., & Todd, T.A. (2019). Identification of postural control for children with autism using a machine learning approach. *2019 Congress of the International Society of Biomechanics, Calgary, Canada.*

Li, Y., Wang, H. Zhang, S., Wang, J., & Simpson, K.J. (2018). The effect of chronic ankle instability on knee joint loadings using a musculoskeletal model. *2018 International Engineering in Medicine and Biology Conference, Honolulu, HI.*

Li, Y., Mache, M.A., & Todd, T.A. (2018). Complexity of center of pressure during postural control for children with autism spectrum disorders. *2018 World Congress of Biomechanics, Dublin, Ireland.*

Li, Y., Wang, H., & Simpson, K.J. (2018). The influence of chronic ankle instability on knee joint loadings using a musculoskeletal model. *2018 World Congress of Biomechanics, Dublin, Ireland.*

Kakar, R.S., Finer, Z., Knight, N., Tome, J., **Li, Y.**, & Simpson, K.J. (2018). Comparison of maximum rotational spine ROM to spinal movement required during self-selected treadmill jogging between age groups. *2018 American College of Sports Medicine Annual Meeting, Minneapolis, MN.*

Li, Y., Ko, J., Walker, M., Schmidt, J.D., Brown, C.N., & Simpson, K.J. (2017). The effect of chronic ankle instability on knee biomechanics during landing. *2017 Congress of the International Society of Biomechanics, Brisbane, Australia.*

Li, Y., Ko, J., Walker, M., Schmidt, J.D., Brown, C.N., & Simpson, K.J. (2017). The influence of chronic ankle instability on lower extremity muscle activation of females during landing. *2017 Congress of the International Society of Biomechanics, Brisbane, Australia.*

Zhang, S., **Li, Y.,** & Li, L. (2017). The differential effects of footwear on sample entropy of ground reaction force during running. *American College of Sports Medicine Annual Meeting, Denver, CO.*

Kakar, R.S., **Li, Y.**, Brown, C.N., Fu, Y-C. & Simpson, K.J. (2015). Lower extremity kinetics during stop-jump of individuals with adolescent idiopathic scoliosis after surgical fusion of spine. *Annual Meeting of the American Society of Biomechanics, Columbus, OH.*

Kakar, R.S., **Li, Y.**, Fu, Y-C., Brown, C.N., & Simpson, K.J. (2015). Spine kinematics exhibited during running by adolescent idiopathic scoliosis patients with spinal fusion. *The Spine Journal, 15*(Supplement), S177.

Li, Y., Kakar, R.S., Walker, M., Fu, Y-C., Oswald, T.S., Brown, C.N., & Simpson, K.J. (2015). Intra-trunk coordination exhibited during treadmill running by individuals with spinal fusion for adolescent idiopathic scoliosis. *Congress of the International Society of Biomechanics, Glasgow, UK.*

Simpson, K.J., **Li, Y.**, Walker, M., & Kakar, R.S. (2015). Effect of running speed on intra-trunk displacements during treadmill running. *Congress of the International Society of Biomechanics, Glasgow, UK.*

Kakar, R.S., **Li, Y.**, Fu, Y-C., Brown, C.N., Oswald, T.S., & Simpson, K.J. (2015). Sagittal plane trunk kinematics during stop-jump in individuals with adolescent idiopathic scoliosis post surgical fusion of spine. *Congress of the International Society of Biomechanics, Glasgow, UK.*

Kakar, R.S., **Li, Y.**, Fu, Y-C., Brown, C.N., Oswald, T.S., & Simpson, K.J. (2015). Lower extremity kinematics during stop-jump in individuals with adolescent idiopathic scoliosis post surgical fusion of spine. *Congress of the International Society of Biomechanics, Glasgow, UK.*

Wang, R., Fukuda, D.H., Cheng, P., **Li, Y.**, Fragala, M.S., Stout, J.R., & Hoffman, J.R. (2015). Differential effects of speed on foot strike patterns during barefoot and shod running. *American College of Sports Medicine Annual Meeting, San Diego, CA.*

Li, Y., Kakar, R.S., Fu Y-C, Oswald, T.S., & Simpson K.J. (2014). Pelvis and lower extremity kinematics during treadmill running exhibited by individuals with spinal fusion for adolescent idiopathic scoliosis. *World Congress of Biomechanics, Boston, MA.*

Kakar, R.S., Fu Y-C., Oswald, T.S., **Li**, **Y.,** & Simpson, K.J. (2014). How do individuals with fused spinal segments for adolescent idiopathic scoliosis compensate for the loss of spinal range of motion during running? *International Meeting on Advanced Spine Techniques, Valencia, Spain.*

Li, **Y.**, Simpson, K.J., Kakar, R.S., Fu, Y-C., Kinsey, T.L., & Mahoney, O.M. (2014). Leg strength, power and stair ascent performance 5 years after unicompartmental knee arthroplasty. *American College of Sports Medicine Annual Meeting, Orlando, FL.*

Kakar, R. S., Fu, Y-C., Oswald, T.S., **Li**, **Y.,** & Simpson, K.J. (2014). Spinal segmental ranges of motion exhibited during running by individuals with adolescent idiopathic scoliosis after spinal fusion surgery. *Annual Conference of Association of Spine Surgeons of India. Kolkata, India.*

Simpson, K.J., Kakar, R. S., Fu, Y-C., Walker, M., **Li**, **Y.,** Brown, C.N., & Oswald, T.S. (2014). Balance of nonsedentary individuals with spinal fusion for adolescent idiopathic scoliosis is only mildly compromised. *Annual Conference of Association of Spine Surgeons of India. Kolkata, India.*

Li, Y., & Alexander, M.J.L. (2014). Kinematic comparisons of kick directions during the soccer penalty kick. *Journal of Sports Science, 32*(Supplement 1), S65 – S66.

Li, **Y.,** & Simpson, K.J. (2014). Lower extremity kinematics of 200 m curve running by sprinters using trans-tibial prostheses. *Annual meeting of the Southeast Chapter of the American College of Sports Medicine, Greenville, SC.*

Kakar, R.S., **Li**, **Y.**, Oswald, T.S., Fu, Y-C., & Simpson, K.J. (2014). Spine kinematics exhibited during running by individuals with adolescent idiopathic scoliosis after spinal fusion surgery. *Georgia Orthopaedic Society Annual Conference, Sea Island, GA.*

Li, **Y.** (2013). Differences in kinematics of kick directions during the soccer instep kick. *Asian Pacific Conference on Biomechanics, Seoul, South Korea.*

2. Invited Talks, Lectures, and Presentations:

3. Consultancies:

4. Workshops:

5. Other Works not in Print:

a. Works "submitted" or "under review":

Swaim, E., Rodriquez, K., Knudson, D., Li, Y., & Koldenhoven, R. (Under review). Walking kinematics, kinetics, and muscle activation with and without femoroacetabular impingement. *Clinical Biomechanics.*

Liu, T., Tongish, M., Okuda, P.M.M., & **Li, Y.** (Under review). Executive function and motor competence in children with autism spectrum disorder. *Cognitive Processing.*

Zhang, S., **Li, Y.**, & Li, L. (Under review). The variability of ankle joint angle of older aged runner while running at pre-determined and self-selected speeds. *International Biomechanics.*

Zhang, S., **Li, Y.**, & Li, L. (Under review). The different ankle joint mechanics, variability, and complexity during running between experienced older and younger runners. *Medicine in Novel Technology and Devices.*

b. Works "in progress":

Kakar, R.S., **Li, Y.**, Brown, C.N., Kim, S., Oswald, T.S., & Simpson, K.J. (In progress). Lower extremity kinematics and kinetics exhibited during stop-jump by physically-active individuals with adolescent idiopathic scoliosis and spinal fusion. Target journal: *The Spine Journal.*

Samson, C.O., **Li, Y.**, Simpson, K.J., Newell, K.M., & Brown, C.N. (In progress). Intra-limb coordination during normal and elevated rearfoot squat in individuals with chronic ankle instability. Target journal: *Clinical Biomechanics.*

Samson, C.O., **Li, Y.**, Simpson, K.J., Newell, K.M., & Brown, C.N. (In progress). Summated joint kinematic variability differences in those with and without chronic ankle instability during normal and elevated rearfoot squat tasks. Target journal: *Clinical Biomechanics.*

c. Other Works Not in Print:

C. Scholarly / Creative Grants and Contracts:

1. Funded External Grants and Contracts:

Valles, D. & Liu, T. National Science Foundation, Research Experience for Undergraduates. August 2021. Undergraduate research experiences in machine learning, analytics, and augmented reality for smart and connected health. $344,029.00 (funded). Senior Personnel.

Liu, T., **Li, Y.**, McAllister, M., Rolfe, R., & Patek, K. Chinese Rowing Association. December 2019. Impact of a 4-6 week training intervention on biomechanical and physiological markers in Olympic rowing athletes. $2,098 (funded). Co-principal Investigator.

Simpson, KJ. Scoliosis Research Society. July 2012. Movement techniques used by individuals with adolescent idiopathic scoliosis during high-effort activities and the effects of spinal fusion surgery on compensatory adaptation. $9,846.00 (funded). Co-Investigator.

Simpson, KJ. Arthrex Inc. August 2011. Do unicompartmental knee arthroplasties (Align 360) restore biomechanics and physical function of patients? $250,701.00 (funded). Co-Investigator.

2. Submitted, but not Funded, External Grants and Contracts:

Li, Y. & Liu, T. Organization for Autism Research, Applied research. March 2020. Enhancing early diagnosis of autism with machine learning algorithms using postural control features. $39,714.83 (not funded). Principal Investigator.

Liu, T., **Li, Y.**, & Lourenco, C. The Waterloo Foundation. February 2020. Global impact of psychomotor intervention on children with autism spectrum disorder motor impairments. £59,995.00 (not funded). Co-principle Investigator.

Zhang, S., **Li, Y.**, & Papa, E. R03, National Institute of Neurological Disorders and Stroke. October 2019. Automated identification of postural control patterns for individuals with early-stage Parkinson's disease using a machine learning approach. $148,023.00 (not funded). Co-principal Investigator.

Li, Y. & Liu, T. R03, National Institute of Child Health and Human Development. October 2019. Enhancing early diagnosis of autism with machine learning algorithms using postural control features. $143,048.00 (not funded). Principal Investigator.

Li, Y. & Liu, T. Organization for Autism Research, Applied research. March 2019. Artificial intelligence machine learning: diagnosis of postural control in children with autism spectrum disorder. $40,000.00 (not funded). Principal Investigator.

Zhang, S. Michael J. Fox Foundation, biomarkers for Parkinson's disease. October 2017. Regularity of center-of-pressure as the marker of attention investment to postural control in Parkinson's population. $502,436.00 (not funded). Co-principal Investigator.

3. Funded Internal Grants and Contracts:

Li, Y. Research Enhancement Program, Texas State University. December 2021. Regularity of center of pressure as a biomarker of attention investment to postural control in Parkinson's population. $8,000.00 (funded). Principal Investigator.

Li, Y., & Liu, T. Research Enhancement Program, Texas State University. December 2018. Artificial intelligence machine learning: diagnosis of postural control in children with autism. $16,000.00 (funded). Principal Investigator.

Li, **Y.** Research, Scholarly and Creative Activities Grant Program, California State University, Chico. April 2017. Can chronic ankle instability increase the anterior cruciate ligament injury risk for females? $6,449.70 (funded). Principal Investigator.

4. Submitted, but not Funded, Internal Grants and Contracts:

Fraser, M., Griffin, H., Rolfe, R., **& Li, Y.** Big Idea, Texas State University. January, 2021. Development of a novel HoloLens platform for investigate the assessment and rehabilitation of sport-related concussion. $30,000.00 (not funded). Co-principal Investigator.

Li, Y. Louise E. Kindig Research Award, University of Georgia. February, 2016. Can chronic ankle instability affect knee biomechanics for females? $1,000.00 (not funded). Principal Investigator.

D. Scholarly / Creative Fellowships, Awards, Honors:

2016 Student Travel Grant, International Society of Biomechanics in Sports (€500)
2016 Foreign Travel Award, University of Georgia ($1400)
2015 Foreign Travel Award, University of Georgia ($1300)
2015 Student Travel Grant, International Society of Biomechanics in Sports (€300)
2015 Clifford Gray Lewis Travel Award, University of Georgia ($250)
2015 Graduate Student Travel Award, University of Georgia ($200)
2014 Clifford Gray Lewis Travel Award, University of Georgia ($500)
2014 Graduate Student Travel Award, University of Georgia ($300)
2013 Foreign Travel Award, University of Georgia ($1300)
2013 Clifford Gray Lewis Travel Award, University of Georgia ($250)

E. Scholarly / Creative Professional Development Activities Attended:

F. Media Recognition:

IV. SERVICE

A. Institutional

1. University:

Member, Research Enhancement committee, Texas State University (2023 – present)

Member, Review committee for 2017 SARC (Student Awards for Research & Creativity), California State University, Chico (2017)

2. College:

Member, Outstanding Graduate Student committee, Texas State University (2023 – present)

Member, Graduate College Scholarship committee, Texas State University (2020 – 2023)

Member, College of Education Scholarship committee, Texas State University (2020 – 2023)

3. Department/School:

Member, Curriculum committee in the Department of Health and Human Performance, Texas State University (2023 - present)

Member, Scholar's Day committee in the Department of Health and Human Performance, Texas State University (2020 – 2023)

Member, Graduate Admission committee in the Department of Health and Human Performance, Texas State University (2019 – 2023)

Member, Scholarship committee in the Department of Kinesiology, California State University, Chico (2018)

B. Professional:
Editorial board, *Scientific Reports* (2025 – present)
Editorial board, *Journal of Science and Medicine in Sport* (2021 – present)
Editorial board, *Frontiers in Sports and Active Living* (2024 – present)
Editorial board, *PeerJ* (2024 – present)
Editorial board, *PLOS One* (2019 – 2023)
Guest Editor, *Medicine in Novel Technology and Devices* (2021 – present)
Guest Editor, *Frontiers in Sports and Active Living* (2022 – present)
Guest Editor, *PLOS One* (2018)
Book Reviewer, *Elsevier* (2023)
Journal Reviewer, *Scientific Reports* (2023)
Journal Reviewer, *Journal of Biomechanics* (2023)
Journal Reviewer, *Frontiers in Bioengineering and Biotechnology* (2020, 2023)
Journal Reviewer, *IEEE Access* (2020, 2023)
Journal Reviewer, *Sports Medicine and Health Science* (2020)
Journal Reviewer, *International Journal of Environmental Research and Public Health* (2020)
Journal Reviewer, *Journal of Sports Rehabilitation* (2020, 2021)
Journal Reviewer, *BMC Musculoskeletal Disorders* (2020, 2021)
Journal Reviewer, *Adapted Physical Activity Quarterly* (2020)
Journal Reviewer, *Sports Biomechanics* (2020, 2021, 2022, 2023)
Journal Reviewer, *Journal of Orthopedics and Orthopedic Surgery* (2019)
Journal Reviewer, *Gait and Posture* (2019)
Journal Reviewer, *Human Movement Science* (2018)
Journal Reviewer, *Journal of Sport and Health Science* (2018)
Journal Reviewer, *PLOS One* (2018)
Journal Reviewer, *Gait and Posture* (2018)
Journal Reviewer, *Sports Medicine and Rehabilitation Journal* (2017)

C. Community:
Volunteer, Autism Summer Camp, San Marcos, TX (2019, 2022)

D. Organization Memberships:
Member, International Society of Biomechanics (2015 – 2020)
Member, International Sports Engineering Association (2020)
Member, IEEE Engineering in Medicine and Biology Society (2017 – 2019)
Member, American College of Sports Medicine (2014 – 2019)
Member, International Society of Biomechanics in Sports (2015 – 2018)
Member, American Society of Biomechanics (2012 – 2014)
Member, Asian Pacific Association for Biomechanics (2013)

E. Service Honors and Awards:

F. Service Grants and Contracts:

1. Funded External Service Grants and Contracts:

2. Submitted, but not Funded, External Service Grants and Contracts:

3. Funded Internal Service Grants and Contracts:

4. Submitted, but not Funded, Internal Service Grants and Contracts:

G. Service Professional Development Activities Attended: