

# Kenney Ki Lee Lau, BA, MSc, PhD, FRSPH.

## Information

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- ORCID: <https://orcid.org/0000-0002-9958-3044>
- Google Scholar: <https://scholar.google.com/citations?hl=en&user=xWa3VGgAAAAJ>
- Web of Science: <https://www.webofscience.com/wos/author/record/3928836>

## Summary

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- H-index: 7 (Google scholar)
- Citations: 131 (Google scholar)
- Publication: 15 (80% first author)
- Conference: 17 (53% presenting author)
- Grant: 2 (50% principal investigator), HK\$ 85,580 (total)

## Qualifications

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- 2024: Fellow, Royal Society for Public Health, United Kingdom
- 2024: Doctor of Philosophy in Clinical Medicine, University of Hong Kong, Hong Kong
- 2019: Master of Science in Exercise Science, Chinese University of Hong Kong, Hong Kong
- 2017: Bachelor of Arts in Sport Development, Northumbria University, United Kingdom

## Honors

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- 2020: Postgraduate Scholarship, University of Hong Kong, Hong Kong
- 2016: Outstanding Performance Scholarship, Education Bureau of the Government of Hong Kong, Hong Kong

## Employment

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- 01/2025 – Present  
Postdoctoral Fellow, Department of Orthopaedics and Traumatology, Chinese University of Hong Kong, Hong Kong
- 11/2024 – Present  
Global Burden of Disease Collaborator, Institute for Health Metrics and Evaluation, University of Washington, United States
- 10/2024 – 12/2024  
Postdoctoral Fellow, Department of Paediatrics and Adolescent Medicine, University of Hong Kong, Hong Kong
- 08/2024 – 12/2024  
Active Member, Scientific Committee, International Society on Scoliosis Orthopaedic and Rehabilitation Treatment, United States
- 09/2023 – 12/2024  
Active Member, Annual Meeting Education Committee, Scoliosis Research Society, United States
- 09/2020 – 08/2024  
Student Research Assistant, Department of Orthopaedics and Traumatology, University of Hong Kong, Hong Kong
- 09/2022 – 09/2023  
Postgraduate Student Representative, Board of the Faculty of Medicine, University of Hong Kong, Hong Kong
- 04/2018 – 07/2020  
Research Assistant, Department of Rehabilitation Sciences, Hong Kong Polytechnic University, Hong Kong

# Kenney Ki Lee Lau, BA, MSc, PhD, FRSPH.

Publications (\* as corresponding author)

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- Lau KK\*, Law KKP, Kam OOM, Cheung JPY, Cheung PWH. Exploring the potential relationships between idiopathic scoliosis and various multifactorial diseases: a systematic scoping review. *Spine Deformity*. 2025; accepted.
  - Lau KK\*, Kwan KYH, Cheung JPY. Sensitivity of intraoperative electrophysiological monitoring for scoliosis correction in identifying postoperative neurological deficits: a retrospective chart review of the Scoliosis Research Society morbidity and mortality database. *BMC Musculoskeletal Disorders*. 2025; 26(1): 186. <https://doi.org/10.1186/s12891-024-08115-4>
  - Liu PY, Zhang J, Wan FKW, Yu HT, Lau KK, Cheung KMC, Chen BY, Yip J. Evaluating the impact of soft bracing and textile engineering in enhancing postural control and proprioception in adolescent idiopathic scoliosis. *Journal of Industrial Textiles*. 2025; 55(1): 1-18. <https://doi.org/10.1177/15280837251313520>
  - Lau KK, Kwan KYH, Cheung JPY, Law KKP, Wong AYL, Chow DHK, Cheung KMC. Normative values of spinal and peripheral proprioception in position sense among healthy adolescents and young adults. *Scientific Reports*. 2024; 14(1): 31722. <https://doi.org/10.1038/s41598-024-82100-8>
  - Lau KK\*, Kwan KYH, Wong TKT, Cheung JPY. Current status of vertebral body tethering for adolescent idiopathic scoliosis: an umbrella review. *Orthopedic Research and Reviews*. 2024; 16(1): 305-15. <https://doi.org/10.2147/orr.s502053>
  - Lau KK, Kwan KYH, Cheung JPY, Wong JSH, Shea GKH, Law KKP, Cheung KMC. Patient-perceived factors on treatment satisfaction in early onset scoliosis treated surgically for a minimum of ten years. *Journal of Orthopaedic Surgery and Research*. 2024; 19(1): 524. <https://doi.org/10.1186/s13018-024-04993-5>
  - Lau KK, Kwan KYH, Cheung JPY, Wong JSH, Shea GKH, Law KKP, Cheung KMC. Incidence of back pain from initial presentation to three years of follow-up in subjects with untreated adolescent idiopathic scoliosis. *Spine Deformity*. 2024; 12(2): 357-65. <https://doi.org/10.1007/s43390-023-00794-8>
  - Lau KK, Kwan KYH, Cheung JPY, Law KKP, Cheung KMC. Impact of mental health components on the development of back pain in young adults with adolescent idiopathic scoliosis. *European Spine Journal*. 2023; 32(11): 3970-8. <https://doi.org/10.1007/s00586-023-07908-w>
  - Lau KK, Law KKP, Kwan KYH, Cheung JPY, Cheung KMC. Proprioception-related gene mutations in relation to the aetiopathogenesis of idiopathic scoliosis: a scoping review. *Journal of Orthopaedic Research*. 2023; 41(12): 2694-702. <https://doi.org/10.1002/jor.25626>
  - Law KKP, Lau KK, Shea GKH, Cheung KMC. Quantitative physical performance tests can effectively detect degenerative cervical myelopathy: a systematic review and meta-analysis. *European Spine Journal*. 2022; 31(12): 3347-64. <https://doi.org/10.1007/s00586-022-07349-x>
  - Lau KK, Kwan KYH, Cheung JPY, Chow W, Law KKP, Wong AYL, Chow DHK, Cheung KMC. Reliability of a three-dimensional spinal proprioception assessment for patients with adolescent idiopathic scoliosis. *European Spine Journal*. 2022; 31(11): 3013-19. <https://doi.org/10.1007/s00586-022-07338-0>
  - Lau KK, Law KKP, Kwan KYH, Cheung JPY, Cheung KMC, Wong AYL. Timely revisit of proprioceptive deficits in adolescent idiopathic scoliosis: a systematic review and meta-analysis. *Global Spine Journal*. 2022; 12(8): 1852-61. <https://doi.org/10.1177/21925682211066824>
  - Wong AYL, Chan C, Hiller C, Yung PSH, Lau KK, Samartzis D, Surgenor B. Is scoliosis associated with dance injury in young recreational dancers? a large-scale cross-sectional epidemiological study. *Journal of Dance Medicine and Science*. 2022; 26(1): 42-50. <https://doi.org/10.12678/1089-313x.031522f>
  - Lau KK, Samartzis D, To NSC, Harada GK, An HS, Wong AYL. Demographic, surgical, and radiographic risk factors for symptomatic adjacent segment disease following lumbar fusion: a systematic review and meta-analysis. *Journal of Bone and Joint Surgery*. 2021; 103(15): 1438-50. <https://doi.org/10.2106/jbjs.20.00408>
  - Lau KK\*, Cheng KCC. Effectiveness of taping on functional performance in elite athletes: a systematic review. *Journal of Biomechanics*. 2019; 90(1): 16-23. <https://doi.org/10.1016/j.jbiomech.2019.04.016>

Funding

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- Lau KK, Kwan KYH, Cheung JPY, Cheung KMC. Mechanism of balance deficit in subjects with adolescent idiopathic scoliosis. AO Spine National Research Grant, CHF 5,000, 01/10/2023 to 30/09/2024, reference number: AOSRG2023041.
  - Law KKP, Lau KK, Shea GKH, Cheung KMC. Novel degenerative cervical myelopathy specific performance criteria by physical performance tests. AO Spine National Research Grant, CHF 5,000, 01/10/2023 to 30/09/2024, reference number: AOSRG2023031.

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## Conferences

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- Law KKP, Lau KK, Shea GKH, Cheung KMC. A new arena in quantifying functional deficits with the severity of spinal cord compression in degenerative cervical myelopathy. Asia Pacific Spine Society Annual Meeting, podium presentation, 13 - 16 Jun 2024.
- Law KKP, Lau KK, Shea GKH, Cheung KMC. Relationship among peripheral proprioception, spinal cord compression and functional performance in degenerative cervical myelopathy. Global Spine Congress, podium presentation, 15 - 18 May 2024.
- Law KKP, Lau KK, Shea GKH, Cheung KMC. The presence and distribution of sensory changes in degenerative cervical myelopathy. Global Spine Congress, podium presentation, 15 - 18 May 2024.
- Lau KK, Kwan KYH, Cheung JPY, Law KKP, Cheung KMC. Mental health components in adolescents are associated with onset of back pain during adulthood: a cohort of non-operative idiopathic scoliosis with a mean follow-up of 9.8 years. Scoliosis Research Society Annual Meeting, podium presentation, 06 - 09 Sep 2023.
- Lau KK, Kwan KYH, Cheung JPY, Chow W, Law KKP, Wong AYL, Chow DHK, Cheung KMC. Adolescent idiopathic scoliosis with spinal proprioceptive deficits are associated with curve magnitudes of over 45 degrees. Hong Kong Orthopaedic Association Annual Congress, podium presentation, 05 - 06 Nov 2022.
- Law KKP, Lau KK, Shea GKH, Cheung KMC. Physical performance test is valid in assessing degenerative cervical myelopathy. Hong Kong Orthopaedic Association Annual Congress, podium presentation, 05 - 06 Nov 2022.
- Ng CTS, Cheung KMC, Law KKP, Lau KK. Fukuda-Untenberger stepping test: ability to reflect proprioception deficit and relation with the severity of degenerative cervical myelopathy. Hong Kong Orthopaedic Association Annual Congress, podium presentation, 05 - 06 Nov 2022.
- Lau KK, Kwan KYH, Cheung JPY, Chow W, Law KKP, Wong AYL, Chow DHK, Cheung KMC. Adolescent idiopathic scoliosis with spinal proprioceptive deficits is associated with curve magnitudes of over 45 degrees. International Consortium for Spinal Genetics Development and Disease Annual Meeting, podium presentation, 06 - 08 Oct 2022.
- Lau KK, Kwan KYH, Cheung JPY, Chow W, Law KKP, Wong AYL, Chow DHK, Cheung KMC. Development of a three-dimensional spinal proprioception assessment for patients with adolescent idiopathic scoliosis. Asia Pacific Spine Society Annual Meeting, podium presentation, 10 - 12 Jun 2022.
- Cheung JPY, Choy WC, Zhang T, Wong JSH, Lau KK, Wong AYL. Chronic non-specific low back pain: disease burden, management status, and clinical course prediction with machine learning. International Society for the Study of the Lumbar Spine Annual Meeting, poster presentation, 09 - 13 May 2022.
- Wong AYL, Chan C, Lau KK, Hiller C, Yung PSH, Ling S, Schoeb V, Surgenor B, Samartzis D. Determining the prevalence of dance-related lumbar injury and associated factors among dancers: a large-scale study. International Society for the Study of the Lumbar Spine Annual Meeting, poster presentation, 09 - 13 May 2022.
- Lau KK, Kwan KYH, Cheung JPY, Law KKP, Guldeniz O, Wong AYL, Chow DHK, Cheung KMC. Is spinal proprioception altered in adolescent idiopathic scoliosis. Hong Kong Orthopaedic Association Annual Congress, podium presentation, 06 - 07 Nov 2021.
- Lau KK, Kwan KYH, Cheung JPY, Law KKP, Guldeniz O, Wong AYL, Chow DHK, Cheung KMC. Distribution of proprioceptive deficit in adolescent idiopathic scoliosis in Hong Kong: a preliminary analysis. Hong Kong Orthopaedic Association Annual Congress, podium presentation, 06 - 07 Nov 2021.
- Law KKP, Lau KK, Cheung KMC. Proprioceptive deficit in degenerative cervical myelopathy. Hong Kong Orthopaedic Association Annual Congress, podium presentation, 06 - 07 Nov 2021.
- Lau KK, Law KKP, Kwan KYH, Cheung JPY, Cheung KMC, Wong AYL. Altered proprioception on balance control, repositioning, and evoked potential in adolescent idiopathic scoliosis: a systematic review. International Society for the Study of the Lumbar Spine Annual Meeting, poster presentation, 02 - 04 Jun 2021.
- Lau KK, Ha JSK, Kwan KYH, Cheung KMC, Wong AYL. Altered proprioception in teenagers with adolescent idiopathic scoliosis: a systematic review. Hong Kong Orthopaedic Association Annual Congress, poster presentation, 31 Oct - 01 Nov 2020.
- Lau KK, To NSC, Harada GK, An HS, Samartzis D, Wong AYL. Risk factors for symptomatic adjacent segment disease following lumbar fusion: a systematic review and meta-analysis. Hong Kong Orthopaedic Association Annual Congress, poster presentation, 31 Oct - 01 Nov 2020.