

CURRICULUM VITAE



Amornthep Jankaew, PhD, PT
Department of Physical Therapy, Faculty of Associated Medical Sciences
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Education

2019 - 2023	Doctor of Philosophy (Physical Therapy), College of Medicine, National Cheng Kung University, Tainan, Taiwan
2016 - 2017	Master of Science (Movement and Exercise Sciences), Faculty of Associated Medical Sciences, Chiang Mai University, Chiang Mai, Thailand
2010 - 2013	Bachelor of Science (Physical Therapy), Faculty of Associated Medical Sciences, Chiang Mai University, Chiang Mai, Thailand

Work Experience

Physical Therapist	2014 - 2015
Department of Rehabilitation, Samutsakhon hospital, Samutsakhon, Thailand	
Clinical Instructor	2016 - 2017
Department of Physical Therapy, Faculty of Associated Medical Sciences, Chiang Mai University, Chiang Mai, Thailand	
Teaching and Researching Assistance	2017 - 2018
Department of Physical Therapy, Faculty of Associated Medical Sciences, Chiang Mai University, Chiang Mai, Thailand	
Postdoctoral Research Fellow	2023 - 2025
Department of Physical Therapy, College of Medicine, National Cheng Kung University, Tainan, Taiwan	

Area of Interest

Biomechanics of lower extremities, Sports biomechanics, Motor control in sports injuries,
Musculoskeletal rehabilitation, Rehabilitation in sports injuries

Professional Memberships

International Society of Biomechanics (ISB)
International Society of Electrophysiology and Kinesiology (ISEK)
Thai Sports Physiotherapy Society

Reviewer

Sports Medicine - Open
Scientific Reports
Journal of Orthopaedic Surgery and Research
BioMedical Engineering OnLine
BMC musculoskeletal disorders
BMC Sports Science, Medicine and Rehabilitation
Sport Sciences for Health

Training Course

- International conference “2021 International Conference on Future Healthcare and Economic Development: Digital Healthcare Revolution Post-COVID-19”, 2021 September 23-29, organized by medical device innovation center (MDIC), National Cheng Kung University at Shangri-La's Far Eastern Plaza Hotel, Tainan, Taiwan
- Sports Biomechanics Croucher Summer Course 2024 “Advances in Sports Biomechanics”, 2024 July 22-26, organized by Croucher Foundation and The Chinese University of Hong Kong (CUHK) Sports Medicine, Department of Orthopedics and Traumatology, Faculty of Medicine, The Chinese University of Hong Kong, Sha Tin, Hong Kong
- Sports Biomechanics Research Summit 2024, 2024 July 27-28, organized by The Chinese University of Hong Kong (CUHK) Sports Medicine, Department of Orthopedics and Traumatology, Faculty of Medicine, The Chinese University of Hong Kong, Sha Tin, Hong Kong

Invited International Presentations

- Invited speaker in “Hamstring injuries and exercise protocol” for physiotherapy students (webinar), 2020 April 22 and May 27, Department of Physiotherapy, Faculty of Health Science, University of Muhammadiyah Malang, Malang, Indonesia
- Invited speaker in “Health related physical fitness testing” for physiotherapy students (webinar), 2020 May 13, Department of Physiotherapy, Faculty of Health Science, University of Muhammadiyah Malang, Malang, Indonesia
- Invited speaker “Management of Hamstring injuries for physiotherapy” for physiotherapy students (webinar), 2020 June 3, Department of physiotherapy, University of Widya Dharma Klaten, Central Java, Indonesia

Awards and Scholarship

- Movement and Exercise Sciences Program Scholarship from Department of Physical Therapy, Academic Year 2016-2017, Faculty of Associated Medical Sciences, Chiang Mai University, Thailand
- Teaching/Research Assistantship (TA/RA) Scholarship for Graduate Students in Health Science or Related Interdisciplinary Programs for Academic Year 2017, Graduate school, Chiang Mai University, Thailand

- Summer Overseas Exchange Subsidy Scheme 2018 (SOESS 2018), 2018 June 25-29, at Department of Rehabilitation Sciences, The Hong Kong Polytechnic University, Hong Kong
- The MOE Taiwan Scholarship Program, Academic Year 2019 -2023, Ministry of Education, Taiwan
- Summer Research Internship Program for International Students, Academic Year 2020, College of Medicine, National Cheng Kung University, Tainan, Taiwan
- Outstanding performance in the 2022 Research Day Oral Competition of the Allied Health Group, College of Medicine, National Cheng Kung University, Tainan, Taiwan
- Outstanding performance in the 2023 Research Day Oral Competition of the Allied Health Group, College of Medicine, National Cheng Kung University, Tainan, Taiwan
- Outstanding performance in the 2023 Research Day Poster Competition of the Allied Health Group, College of Medicine, National Cheng Kung University, Tainan, Taiwan
- An honorable memory of achieved academic excellence upon graduation 2023, The Phi Tau Phi Scholastic Honor Society of the Republic of China, an honorary member of the society by National Cheng Kung University, Tainan, Taiwan
- Excellence award, Grand Review and Competition for Ph.D. Students and Postdoctoral Research Fellowship 2023, National Cheng Kung University, Tainan, Taiwan
- Major award for research presentation, CUHK Croucher Sports Biomechanics Summer Course 2024, Croucher Foundation and CUHK sports medicine, Department of Orthopedics and Traumatology, Faculty of Medicine, The Chinese University of Hong Kong, Sha Tin, Hong Kong

Publications

- **Jankaew A**, Sitilertpisan P, Chamnongkich S. Effect of knee orthosis on walking performance in individuals with knee osteoarthritis. *Journal of Associated Medical Sciences*. 2017;50(3):479-89. (SCIE).
- Huang PY, **Jankaew A**, Lin CF. Effects of Plyometric and Balance Training on Neuromuscular Control of Recreational Athletes with Functional Ankle Instability: A Randomized Controlled Laboratory Study. *Int J Environ Res Public Health*. 2021;18(10):5269. Doi: 10.3390/ijerph18105269 (SSCI&SCIE).
- Huang PY, Lin CW, **Jankaew A**, Lin CF. Relationship of Extrinsic Risk Factors to Lower Extremity Injury in Collegiate Ballet Dancers. *Front Bioeng Biotechnol*. 2022;10:878448. Doi: 10.3389/fbioe.2022.878448 (SCIE).
- Rakhmad R, **Jankaew A**, Wu PT, Kuo LC, Lin CF. Factors Associated with Falls in Patients with Knee Osteoarthritis: A cross-sectional study. *Medicine (Baltimore)*. 2022;101(48):e32146. Doi: 10.1097/MD.00000000000032146 (SCIE).
- **Jankaew A**, Chen JC, Chamnongkich S, Lin CF. Therapeutic Exercises and Modalities in Athletes with Acute Hamstring Injuries: A Systematic Review and Meta-Analysis. *Sports Health*. 2023;15(4):497-511. Doi: 10.1177/19417381221118085 (SCIE).
- **Jankaew A**, You YL, Yang TH, Chang YW, Lin CF. The effects of low-level laser on muscle strength and functional outcomes in individuals with knee osteoarthritis: a double-blinded randomized controlled trial. *Sci Rep*. 2023;13(1):165. Doi: 10.1038/s41598-022-26553-9 (SCIE).

- **Jankaew A**, Chen HJ, Lin CC, Tsai CH, Huang MT, Lin CF. Impact of bilateral motion control shoes adjustment on gait asymmetry in individuals with mild leg length discrepancy. *Gait Posture*. 2023;103:80-85. Doi: 10.1016/j.gaitpost.2023.04.023 (SCIE).
- **Jankaew A**, Jan YK, Hwang IS, Kuo LC, Lin CF. Hamstring Muscle Stiffness Affects Lower Extremity Muscle Recruitment and Landing Forces during Double-Legs Vertical Jump. *Sports Biomech*. 2023;1-19 (Online ahead of print). Doi: 10.1080/14763141.2023.2219670 (SCIE).
- **Jankaew A**, Jan YK, Hwang IS, Kuo LC, Lin CF. Hamstring activation deficits in different jumping directions in athletes with a history of hamstring strain injuries: a cross-sectional laboratory study. *Sports Biomech*. 2023;1-16 (Online ahead of print). Doi: 10.1080/14763141.2023.2236074 (SCIE).
- **Jankaew A**, Jan YK, Lin CF. Frequency Domain Analysis of Hamstring Activation during Jump-landing Performance by Athletes with Diverse Training Regimens. *J Med Biol Eng*. 2024;44(2):255-265. Doi: 10.1007/s40846-024-00857-9 (SCIE).
- Saffari M, Ruckwongpatr K, **Jankaew A**, Pimsen A, Paratthakonkun C, Tung SEH, Nurmala I, Su JA, Chen JS, Ko PJ, Griffiths MD, Lin CY. Psychometric properties of the Thai Gaming Disorder Test (GDT) and Thai Gaming Disorder Scale for Adolescents (GADIS-A). *J Forensic Psychol Res Pract*. 2024;25(3):667-685. Doi: 10.1080/24732850.2024.2351091 (SSCI).
- Lin CW, **Jankaew A**, Lin CF. Physical Therapy Interventions on Alteration of Spinal Excitability in Individuals with Chronic Ankle Instability: A Systematic Review and Meta-Analysis. *Sports Health*. 2024;17(2):394-403. Doi: 10.1177/19417381241253248 (SCIE).
- Lin CW, Lin CF, **Jankaew A**, Chandee S, Misumura M. The Role of Muscle Function and Pointe Shoe Characteristics in Arabesque Movement among Ballet Dancers with Non-specific Low Back Pain. *Sports Biomech*. 2024;1-16 (Online ahead of print). Doi: 10.1080/14763141.2024.2366209 (SCIE).
- **Jankaew A**, Jan YK, Yang TH, Wu HW, Lin CF. Influence of Hamstring Injuries and Vision on Posterior Chain Muscle Activation during Challenging Single-Limb Balance Control among Athletes with Hamstring Strain Injuries. *J Musculoskelet Neuronal Interact*. 2024;24(4):343-352 (SCIE).
- Lin CF, **Jankaew A**, Tsai MC, Liao JC. Immediate effects of thoracic mobilization versus soft tissue release on trunk motion, pain, and lumbar muscle activity in patients with chronic low back pain. *J Bodyw Mov Ther*. 2024;40:1664-1671. Doi: 10.1016/j.jbmt.2024.09.004 (ESCI).
- **Jankaew A**, Lin CF. Alterations in hamstring properties of athletes with hamstring strain injuries can impact jump-landing performance. *J Sports Med Phys Fitness*. 2025;65(2):238-246. Doi: 10.23736/S0022-4707.24.16148-8 (SCIE).
- **Jankaew A**, Wang PC, Jan YK, Hwang IS, Lin CF. Hamstring Activation Deficits during Double-Leg Jump-Landing Tasks in Athletes with Hamstring Strain Injuries Using EMG Time-Frequency Analysis. *J Biomech*. 2025;179:112475. Doi: 10.1016/j.jbiomech.2024.112475 (SCIE).
- Inthana N, Orhirun T, **Jankaew A**, Chamnongkich S. Biomechanical analysis of movement time and center of pressure during single-leg and double-leg sit-to-stand in healthy adults. *Journal of Associated Medical Sciences*. 2025;58(2):122–129 (SCIE).

International Conferences

- **Jankaew A**, Chen JC, Sun Q, Lin CF. Comparison of Different Ballet Pointe Shoes on the Center of Mass and Knee Rang of Motion during Ballet Arabesque. The International Society of Electrophysiology and Kinesiology (ISEK XXIII) Virtual Congress; 2020 July 12-14 (Virtual Conference).
- Rosadi R, **Jankaew A**, Lin CF. Effects of exercise therapy and physiotherapy modalities in management of knee osteoarthritis in Malang – Indonesia: A quasi experimental study. The 6th World Disability and Rehabilitation Conference 2021 (WDRC 2021); 2021 November 11-12 (Virtual conference).
- **Jankaew A**, Chen JC, Rosadi R, Jannah SM, Lin CF. Hamstrings mechanical properties and force absorption during jumping maneuvers in strength and power-trained athletes with and without jumping sports. The 11th Asian-Pacific Conference on Biomechanics (AP Biomechanics); 2021 December 2-5; Kyoto University, Kyoto, Japan.
- **Jankaew A**, Chen JC, Rosadi R, Jannah SM, Lin CF. Hamstring function and landing performance in strength and power-trained athletes with and without jumping sports. College of Medicine 2022 Research Day; 2022 January 21-22; College of Medicine, National Cheng Kung University, Tainan, Taiwan.
- **Jankaew A**, Chen JC, Rosadi R, Lin CF. Hamstring recruitment during double legs landing in athletes with different hamstring mechanical properties. The 9th World Congress of Biomechanics (WCB 2022); 2022 July 10-14; Taipei International Convention Center, Taipei, Taiwan.
- Rosadi R, **Jankaew A**, Wardoyo SSI, Septianingsih R. The Effectiveness of Infrared and Retrowalking Exercise on Pain Reduction in Patients with Knee Osteoarthritis. The 2nd International Conference on Medical and Health Sciences (ICMEDH); 2022 September 24; University of Muhammadiyah, Malang, Indonesia.
- **Jankaew A**, Lin CF. A Comparison of Hamstring Activation during Vertical Jumps in Healthy Athletes with High and Low Hamstring Muscle Stiffness. College of Medicine 2023 Research Day; 2023 February 11; College of Medicine, National Cheng Kung University, Tainan, Taiwan.
- **Jankaew A**, Jan YK, Lin CF. Hamstring Activation Deficits during Challenging Balance Control in Athletes with Hamstring Strain Injuries. American Physical Therapy Association Combined Section Meeting 2023 (ATPA CSM 2023); 2023 February 23-25; San Diego Convention Center, San Diego, California, USA.
- Jannah SM, **Jankaew A**, Tseng IH, Lin CF. A Comparison of the Center of Pressure (COP) Outcomes during a Single-Leg Standing in Hamstring Injured Athletes with and without Pronated Foot. The 85th academic symposium of Taiwan Physical Therapy Association; 2023 March 18; National Taiwan University, Taipei, Taiwan.
- **Jankaew A**, Hwang IS, Jan YK, Lin CF. Hamstring activation deficits during jumping and landing in athletes with hamstring strain injuries using time-frequency analysis method. The XXIX Congress of International Society of Biomechanics (ISB) and the XXIX Congress of Japanese Society of Biomechanics (JSB); 2023 July 30 - August 3; Fukuoka International Congress Center, Fukuoka, Japan.

- **Jankaew A**, Jan YK, Lin CF. Athletes with hamstring injuries exhibit lower EMG-EMG coherence of posterior chain coordination muscles during a single-leg postural lean. The International Society of Electrophysiology and Kinesiology (ISEK XXIV); 2024 June 26-29; Nagoya Congress Center, Nagoya, Japan.
- **Jankaew A**, Chen PS, Lin CF. A Decline in Physical Function is Associated with Cognitive Impairment and Quality of Life in Pancreatic Cancer Patients Undergoing Chemotherapy. American Congress of Rehabilitation Medicine 101st Annual Conference (ACRM 2024); 2024 October 31 - November 3; Hilton Anatole, Dallas, Texas, USA.
- Lee HC, **Jankaew A**, Kuo LC, Lin CF. Using Pull-up and Holding Activity (PUHA) Test to Assess Hand Coordination in Gastrointestinal Cancer Patients before Chemotherapy: A preliminary study. The 6th Global Conference on Biomedical Engineering (GCBME) & Annual Meeting of Taiwanese Society of Biomedical Engineering (TSBME) and Taiwanese Society of Biomechanics (TSB); 2024 November 1-3; National Cheng Kung University, Tainan, Taiwan.
- **Jankaew A**, Lin CF. Can the gluteus maximus and hamstrings be activated during core strengthening exercises? A comparison of muscle activity in healthy male athletes. World Physiotherapy Congress 2025; 2025 May 29-31; Tokyo International Forum, Tokyo, Japan.
- Jannah SM, **Jankaew A**, Lin CF. Dynamic balance control in athletes with prior hamstring injuries and foot pronation. World Physiotherapy Congress 2025; 2025 May 29-31; Tokyo International Forum, Tokyo, Japan.