

Curriculum Vitae

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Work Faculty of Physical Therapy
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EDUCATION

- **2018** tDPT, School of Physical Therapy and Rehabilitation Science, College of Health Professions and Biomedical Sciences, University of Montana, USA
- **2017** Post-doctoral researcher, Allied Health Science Research Unit, School of Health Sciences, University of Central Lancashire, UK
- **2012** Ph.D. in Physical Therapy, Faculty of Physical Therapy, Mahidol University, Thailand
- **2010** Visiting scholar at Motion Analysis Laboratory, Department of Human Physiology, University of Oregon, USA
- **2006** M.Sc. in Physical Therapy, Faculty of Physical Therapy, Mahidol University, Thailand
- **2003** B.Sc. in Physical Therapy (1st Class Honor, Gold Medal), Faculty of Physical Therapy, Mahidol University, Thailand

Supplementary education

- 2016, Certificate of the Advanced Sports Performance Development Program for the Elite Athlete, Sports Authority of Thailand
- 2012, Certificate of course completion for Kinesio Taping Fundamentals and Advanced (KT3), Bangkok, Thailand
- 2011, Certificate of course completion for Kinesio Taping Fundamentals and Advanced (KT1&KT2), Bangkok, Thailand
- 2011, Certificate of course completion for Athletics Classification Training, Bangkok, Thailand

AWARDS & FUNDING

- 2020 Research assistantships of Faculty of Physical Therapy, Mahidol University
 - Project “Knee Muscle Changes after Sitting in Various Postures”
- 2017 Newton Fund – TRF Researcher Links Travel grants funded by a UK Government’s Department of Business, Innovation and Skill
 - project “Biomechanics and Rehabilitations in People with Knee Osteoarthritis”
- 2015 Research Fund from Sports Authority of Thailand
 - project “Landing Error Score System and Muscle Strength in Athletes with ACL Reconstruction after Returning to Sports”
- 2013 Young Investigator Fund, Mahidol University, Thailand
- 2010 Best oral presenter award SAT 3rd Sports Science Research Conference. 22 – 23 September 2010, Chonburi province, Thailand
- 2007 - 2011 Higher Education Commission Fund, the Royal Thai Government, Thailand
- 2006 Gold Medal Award of Physical Therapy program, Mahidol University, Thailand

RESEARCH INTERESTS

- Orthopedics and Sports Physical Therapy
- Human motion analysis
- Motor control and biomechanics of human movement
- Biomechanical changes of lower extremity in athletes with anterior cruciate ligament deficiency
- Biomechanical changes of lower extremity in people with knee osteoarthritis
- Biomechanical changes of lower extremity in athletes with chronic ankle instability

POSITIONS & WORKING EXPERIENCES

2020 – Present: Associate Dean for Research, Innovation, and Digital Technology

2019 – Present: Chair of Thai Sports Physiotherapy Society

2018 – 2020: Director of Ph.D. Program in Physical Therapy, Faculty of Physical Therapy, Mahidol University

2020: Speaker of a workshop: Basic course for sports physical therapy at J Park Hotel, Chonburi (February 17-21)

2019: Speaker of a workshop: Basic course for sports physical therapy at TR rock hotel, Songkhla province (June 17-21)

2019: Speaker of a workshop: Basic course for sports physical therapy at Sport Authority of Thailand, Bangkok (March 11-15)

2019: Speaker for Running Sciences Conference at Mahidol University, Thailand (February 2-3)

2018: Sport Physical Therapist, 18th ASIAN GAMES, Jakarta-Palembang, Indonesia
2018: Classifier for Paralympic Game at Patalung Province, Thailand
2016: Speaker of a workshop: Update in Sport Physical Therapy Management for Running Injuries at Mahidol University, Thailand (December 23-23)
2016: Speaker of a workshop: Movement Analysis and Therapeutic Exercise (Section of sports biomechanics: lower extremity movements) at Bangkok, Thailand (June 27 – July 1)
2015: Speaker of a workshop: Improving in clinical research and clinical practice II (Section of Therapeutics taping in sport injuries: cases-based approach) at Bangkok, Thailand (December 22-24)
2015: Classifier for Paralympic Game 2015 at Surin Province, Thailand
2015: Classifier for National Paralympic Game 2015 at Nakhon Ratchasima Province, Thailand
2014: Classifier for Paralympic Game 2015 at Chonburi Province, Thailand
2013: Sport Physical Therapist, The 2nd Asian Youth Games, Nanjing, China (August 16–24, 2013)
2011: Sport Physical Therapist, SEA GAMES XXVI, Jakarta-Palembang, Indonesia
2009: Sport Physical Therapist (Volleyball), Sports Authority of Thailand
2007: Sport Physiotherapist, 24th Universiade 2007, Bangkok, Thailand
2006 – 2010: Physical Therapist (part-time) at Physical Therapy Clinic, Mahidol University, Bangkok, Thailand
2006: Sport Physical Therapist (Football), Sports Authority of Thailand
2005: Physical Therapist (part-time) at Bumrungrad Hospital, Bangkok, Thailand

PROFESSIONAL MEMBERSHIPS

- Member of Thai Physical Therapy Association

EUCATIONAL ACTIVITIES

Teaching

- Classroom Instruction

Postgraduate Program

1. Applied Biomechanics for Movement Therapy (Master Students)

Topic: - Human kinetics

- Knee Biomechanics and Pathobiomechanics

- Applied sports biomechanics

Undergraduate Program

1. Physical Therapy in Musculoskeletal System Class
2. Physical Therapy in Sports Class
3. Knee Anatomy and Biomechanics

- Clinical Instructor
 1. Advanced Clinical Practices of Orthopedic Physical Therapy
 2. Clinical Practices of Physical Therapy
- Research Seminar for Master and Doctoral Students

JOURNAL REVIEWIING

Currently, I am a reviewer for national and international journals including;

- Clinical Biomechanics
- The Knee
- Sports Biomechanics
- Asian Journal of Sports Medicine
- Journal of Medical Technology and Physical Therapy
- Thai Journal of Physical Therapy
- Siriraj Medical Journal
- Walailak Journal of Science and Technology
- Scandinavian Journal of Medicine and Science in Sports

Peer Review of Research Funding Proposal

2020: National Science and Technology Development Agency (budget 8 million baths approximately)

THESIS/DISSERTATION

Degree	Student	Title	Study year
M.Sc.	Ainthira Sonsutong	Effects of multi-directions of jump landing on lower extremity biomechanics in athletes with chronic ankle instability	2019 - present
M.Sc.	Huoth Chantheng	FIFA11+ and knee injury risk program in soccer players	2019 - present
M.Sc.	Andi Fadhilah Tenriwulan	Navicular drop height, force distribution characteristics, and pelvic obliquity in asymptomatic runners	2018 - 2019
Ph.D.	Dimas Songdang	Research project: Trunk and Lower Limb Biomechanics Differences Related to Leg Dominance during Side-step Cutting in Multi-directions	2018 - present
M.Sc.	Apichart Wutwimon	Gluteus medius muscle activity and kinematic changes during walking in individuals with medial knee osteoarthritis	2016 - present
M.Sc.	Pongthanayos Kiratisin	Lower extremity biomechanics during multidirectional jump landing in athletes with ACL reconstruction	2015 - 2017

M.Sc.	Sopinya Pluemjai	Comparisons of frontal hip and knee moments and gluteus medius activity during step tasks in Thai female with and without knee osteoarthritis	2012 - 2016
M.Sc.	Sarun Srisangboriboon	Knee joint biomechanics during single-leg jump landing in female athletes: comparison among various directions	2011 - 2015

PUBLICATIONS

2020;

- Tretriluxana J, Nanbancha A, **Sinsurin K**, Limroongreungrat W, Wang HK. Neuromuscular control of the ankle during pre-landing in athletes with chronic ankle instability: Insights from statistical parametric mapping and muscle co-contraction analysis. *Phys Ther Sport*. 2020 Nov 4;47:46-52. doi: 10.1016/j.ptsp.2020.11.023. Epub ahead of print. PMID: 33166739.
- Boonchum H, Bovonsunthonchai S, **Sinsurin K**, Kunanusornchai W. Effect of a home-based stretching exercise on multi-segmental foot motion and clinical outcomes in patients with plantar fasciitis. *J Musculoskelet Neuronal Interact*. 2020 Sep 1;20(3):411-420. PMID: 32877978; PMCID: PMC7493445.
- **Sinsurin K**, Valldecabres R, Richards J. An exploration of the differences in hip strength, gluteus medius activity and trunk, pelvis and lower limb biomechanics during different functional tasks. *International Biomechanics*. 2020; 7, 35-43 (doi.org/10.1080/23335432.2020.1728381)

2019;

- Watananon P, **Sinsurin K**, Somprasng S. Association between lumbopelvic motion and muscle activation in patients with non-specific low back pain during forward bending task: A cross-sectional study. *Hong Kong Physiother J*. 2019; 40, 1-9.
- Pusara A, Heamawatanachai S, **Sinsurin K**, Jorrakate C. Reliability of a low-cost webcam recording system for three-dimensional lower limb gait analysis. *International Biomechanics*. 2019; 6: 85-92. doi.org/10.1080/23335432.2019.1671221
- Nanbancha A, Tretriluxana J, Limroongreungrat W, **Sinsurin K**. Decreased Corticomotor Excitability and Neuromuscular Function Controlling the Ankle Joint among Athletes with Chronic Ankle Instability. *Eur J Appl Physiol*. 2019; 119: 2041-2052. DOI: 10.1007/s00421-019-04191-w
- Hemarachatanon P, **Sinsurin K**. Misinterpretation on the role of ground reaction force and torque to clubhead speed. *Journal of Sports Science and Technology*. 2019; 19: 25-36 (Thai version)

2018;

- Sakunkaruna Y, Sakunkaruna S, Wattananon P, **Sinsurin K**. The comparison angle of the thoracic, lumbar spine and hip internal rotation movement in Thai golf players with and without low back pain. *Journal of Sports Science and Technology*. 2018; 18: 109-119 (Thai version)

- **Sinsurin K**, Vachalathiti R, Srisangboriboon S, Richards J. Knee Joint Coordination during Single-leg Landing in Different Directions. *Sport Biomechanics*. 2018 Oct 2:1-13
(<https://doi.org/10.1080/14763141.2018.1510024>)

- Mongkonpattarasuk A, **Sinsurin K**, Warathanagassame P, Sungnak P, Suttiwiryakul L. Lower extremity injuries and associated factors in marathon runners: A survey study in Bangkok marathon 2018. *Journal of Sports Science and Technology*. 2018; 18: 73-80 (Thai version)

- Temcharoensuk P, **Sinsurin K**, Jarumethitanont W, Minhareesuraiman P, Buaphengphan Y. Trunk muscle activation during horse simulator riding in healthy adult. *Journal of Medicine and Health Sciences*. 2018; 25: 12-20 (Thai version)

2017;

- **Sinsurin K**, Srisangaboriboon S, Vachalathiti R. Side-to-Side Differences in Lower Extremity Biomechanics during Multi-directional Jump Landing in Volleyball Athletes. *European Journal of Sport Science*. 2017, Vol 17(6), 699-709. (DOI: 10.1080/17461391.2017.1308560)

- **Sinsurin K**, Vachalathiti R, Jalayondeja W, Limroongreungrat W. Knee muscular control during jump landing in multidirections. *Asian Journal of Sports Medicine*. 2016, May 11. (DOI: 10.5812/asjms.31248)

2015;

- Srisangaboriboon S, **Sinsurin K**, Vachalathiti R. Knee joint kinetics during single-leg landing in female athletes. *Journal of Sports Science and Technology*. 2015, Vol 15 (2), 11-18.

- **Sinsurin K**, Pluemjai S, Srisangboriboon S, Suanshan S, Vachalathiti R. Gluteus Medius Muscle Activities during Standing Hip Abduction Exercises in the Transverse Plane at Different Angles. *Journal of the Medical Association of Thailand*. 2015, Vol. 98, Suppl. 5: S48-S53

2013;

- **Sinsurin K**, Vachalathiti R, Jalayondeja W, Limroongreungrat W. Altered Peak Knee Valgus During Jump-landing Among Various Directions in Basketball and Volleyball Athletes. *Asian Journal of Sports Medicine*. 2013, Sep; 4 (3): 195-200.

- **Sinsurin K**, Vachalathiti R, Jalayondeja W, Limroongreungrat W. Different sagittal angles and moments of lower extremity joints during single leg jump- landing among various directions in basketball and volleyball athletes. *Journal of Physical Therapy Sciences*. Vol. 25 No. 9 (September 2013).

FULL PROCEEDING

- Tenriwulan AF, **Sinsurin K**, Vachalathiti R. Navicular Drop Height, Force Distribution Characteristics, and Pelvic Obliquity in Asymptomatic Runners. The International Physical Therapy Research Symposium, 4 June 2020, Salaya, Nakhon Pathom.
- Pluemjai S, **Sinsurin K**, Vachalathiti R, Lamsam C. Hip Joint Kinetics and Gluteus Medius Muscle Activity while Performing Step Tasks in Thai Females with and without Knee Osteoarthritis: A Pilot Study. The 3rd International Physical Therapy Conference and the 4th Physical Therapy Mahidol University Research Symposium, 14 – 16 December 2016, Bangkok, Thailand
- Suanchan S, Vachalathiti R, **Sinsurin K**, Bovonsunthonchai S. Effect of intentional core stabilization on jump height, take-off velocity and flight time during countermovement jump in collegiate volleyball athletes. The national conference of Thai physical therapy association, 23 – 26 June 2015, Bangkok, Thailand.
- Suanchan S, Vachalathiti R, **Sinsurin K**, Bovonsunthonchai S. Effect of core stabilization on vertical performance in collegiate volleyball athletes. The 3rd International Conference on Hospitality, Leisure, Sports, and Tourism, 23 - 24 July 2015, Tokyo, Japan.
- **Sinsurin K**, Srisangboriboon S, Vachalathiti R, Pluemjai S. Lower extremity flexion and vertical ground reaction force during landing in multidirections: A pilot study in female athletes. The 33rd International Conference of Biomechanics in Sports, 29 June – 3 July 2015, Poitiers, France.
- **Sinsurin K**, Vachalathiti R, Jalayondeja W, Limroongreungrat W. How to control ankle joint in various directions of one leg jump-landing: frontal plane moment and EMG study. The 31st Conference of the International Society of Biomechanics in Sports, 7 – 11 July 2013, Taipei, Taiwan.

ABSTRACT PRESENTATION

- **Sinsurin K**, Kiratisin P, Ponmuk B, Vachalathiti R. Clinical and Performance Assessments in Athletes with Anterior Cruciate Ligament Reconstruction after Return-to-Sports. Third World Congress of Sports Physical Therapy, 4-5 October 2019, Vancouver, BC, Canada
- Nanbancha A, Tretriluxana J, Limroongreungrat W, **Sinsurin K**. Corticospinal excitability of the muscles controlling ankle joint in athletes with chronic ankle instability: A pilot study. The 3rd International Physical Therapy Conference and the 4th Physical Therapy Mahidol University Research Symposium, 14 – 16 December 2016, Bangkok, Thailand
- **Sinsurin K**, Vachalathiti R, Jalayondeja W, Limroongreungrat W. Knee joint forces and lower extremity angles during one leg jump-landing in various directions among recreational, basketball, and volleyball athletes. SAT 3rd Sports Science Research Conference. 22 – 23 September 2011, Chonburi province, Thailand.
- Pisciotta E, Becker J, **Sinsurin K**, James S, Ostering L, Chou L S, Center of pressure trajectory differences

between shod and barefoot running. 35th Annual Meeting of The American Society of Biomechanics, August 10 -13, 2011, Long Beach, California, USA.

- Becker J, **Sinsurin K**, Pisciotta E, James S, Ostering L, Chou L S, Does foot strike pattern predict loading rates during shod or barefoot running?. 35th Annual Meeting of The American Society of Biomechanics, August 10 - 13, 2011, Long Beach, California, USA.

- **K. Sinsurin**, R. Vachalathiti, S. Srisuk. The effects of neoprene knee sleeves on knee mechanics in vertical jumping. Sport Medicine Conference in Preparation for 2010. Vancouver BC, Canada 2009.

- **Sinsurin K**, Vachalathiti R, Srisuk S. Effects of knee sleeves on ground reaction force in vertical jumping. Joint congress 2007 SEA games & ASEAN para games scientific congress and 5th Bangkok ASPASP international congress on sport psychology. Thailand 2007.