

## Curriculum Vitae

**Name** Sunee Bovonsunthonchai

**Position** Assistant Professor

**Work place** Faculty of Physical Therapy, Mahidol University  
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### Education

2003-2009: Doctor of philosophy (Physical Therapy), Mahidol University, Bangkok, Thailand

2000-2002: Master of Science (Physiotherapy), Mahidol University, Bangkok, Thailand

1996-1999: Bachelor of Science (Physiotherapy), Mahidol University, Bangkok, Thailand

### Participation and training

- 18-20 November 2002 Participate in the 8<sup>th</sup> General Assembly of Asian Confederation for Physical Therapy, Bangkok, Thailand
- 25-29 March 2008 Participate in workshop of the Stroke from the ground up (Part A), Bangkok, Thailand

- 5-8 December 2010 Participate in the 2010 Asian Congress of Neurorehabilitation, Pattaya, Thailand
- 17 February 2012 Participate in the 10<sup>th</sup> Annual Symposium of Thai Hypertension Society, Bangkok, Thailand
- 23-25 April 2012 Attend the 4<sup>th</sup> Physical Therapy Symposium, Bangkok, Thailand
- 6-7 September 2012 Participate in the Asian Physical Therapy Research Symposium, Bangkok, Thailand
- 25-27 Mar 2013: Training in the “Bodybuilder Training Course”, Oxford, UK
- 4-28 June 2013: Training in the “Intensive course in Transcranial Magnetic Stimulation”, Boston, USA
- 1-4 July 2013: Training in the “MotionMonitor with Virtual Reality and Haptic capabilities”, Chicago, USA
- 29 July 2013: Participate in workshop “Research Methodology & Sample Size Calculation”, Mahidol University, Thailand
- 4-6 Sep 2017: Participate in Pre-course Gait, the 26<sup>th</sup> ESMAC, Trondheim, Norway
- 13-16 Sep 2019: Participate in the 11<sup>th</sup> Meeting of the International Society for Hydrocephalus and Cerebrospinal Fluid Disorders, Vancouver, Canada

### **Awards & Funds**

- 2010 Research Grant for New Scholar, Mahidol University  
*Principle investigator:* Research title “Comparison of biomechanic characteristics of walking over obstacle, walking during performing dual task, and walking with turning in healthy young adolescent and elderly” Research Grant for New Scholar, Mahidol University, 2010.
- 2011 Research Potential Development Fund, Faculty of Physical Therapy, Mahidol University

*Principle investigator:* Research title “Variability of gait initiation in patients with Parkinson’s disease” Research potential development fund, Faculty of Physical Therapy, Mahidol University, 2011.

- 2013 Research Funding for New Scholar, Faculty of Physical Therapy, Mahidol University

*Principle investigator:* Research title “Effects of Kinesio tape and non-elastic tape on muscle activity during landing in athletes with functional ankle instability” Research Fund for New Scholar, Faculty of Physical Therapy, Mahidol University, 2013.

- 2013 Researcher Award, Faculty of Physical Therapy, Mahidol University
- 2014 Researcher Award, Faculty of Physical Therapy, Mahidol University
- 2015 Researcher Award, Faculty of Physical Therapy, Mahidol University
- 2015 Researcher award, Mahidol University
- 2015 Research Funding for Mid-Career, Faculty of Physical Therapy, Mahidol University

*Principle investigator:* Research title “Alteration of gait pattern in patients with Normal Pressure Hydrocephalus (NPH)”

- 2016 Endeavour Executive Fellowship Award, Australian Government, Australia, Training in Discipline of Sport Science, Faculty of Health Science, the University of Sydney, Australia
- 2016-2018 Research grant

*Principle investigator:* Research title “Plantar Heel Pain: Multisegmental foot motion and muscle function, Foot Function Index translation (TH), and evaluation of treatments” TRF Research Scholar, Thailand Research Fund

### **Awards & funds by students under supervising**

- 2011 Research grant, Fuengfa Khobkhun (Master student), Thesis title: *Effects of physical therapy treatment on gait initiation and turning 180 degrees in patients with Parkinson's disease*, Graduated studies of Mahidol University Alumni Association, Thailand
- 2014 Research grant, Thachawan Limphatcharaporn (Master student), Thesis title: *The effect of leg length equalization on gait parameters in persons with leg length discrepancy*, Graduated studies of Mahidol University Alumni Association, Thailand
- 2014 Presentation award, Nopparat Chupeerach (Master student), Presentation title: *Electromyography activities during forward step up and wall single leg squat exercises in individuals with patellofemoral pain syndrome*, SAT 6th National Sports Science Research Conference, Thailand
- 2015 Research grant, Chatwalai Sonthikul (Master student), Thesis title: *Comparative effect of forward and backward partial body weight supported-treadmill training on gait variables in individuals with stroke*, National Research Council of Thailand
- 2015 The 1<sup>st</sup> prize of oral presentation award, Chutimon Panichwit (Master student), Presentation title: *Effects of foot muscles training on plantar pressure distribution during gait, foot muscle strength, and foot function in persons with flexible flatfoot*, The 3<sup>rd</sup> PTMURS, Thailand
- 2015 The 2<sup>nd</sup> prize of oral presentation award, Anuchai Pheung-phrarattanatrai (Master student), Presentation title: *Improvement of gait symmetry in patients with stroke by Motor Imagery*, The 3<sup>rd</sup> PTMURS, Thailand
- 2015-2017 Norway Scholarship (Mahidol-Norway Capacity Building Initiative for ASEAN), Ms Nilar Aung (Doctoral student), Thesis title: *Effect of a structured progressive task-oriented circuit class training program with motor imagery on gait performance in patients with stroke: a randomized double blind balanced parallel-group*, Norway Embassy of Myanmar and Mahidol University

- 2016 Thesis award, Anuchai Pheung-phrarattanatrai (Master student), Thesis title: *Improvement of gait symmetry in patients with stroke by Motor Imagery*, Graduate Studies, Thailand
- 2017 Research grant, Ploynual Panamornchai (Master student), Thesis title: *Effect of the conventional- and the specific- motor imagery on gait performance in individuals with stroke*, National Research Council of Thailand
- 2017 Research grant, Aileen Surakamhang (Master student), Thesis title: *Comparison of balance training and plyometric training on balance control in individuals with functional ankle instability*, Graduated studies, Mahidol University, Thailand
- 2018 Research grant, Anecha Horasart (Master student), Thesis title: *Immediate effect of the Kinesio taping at ankle joint on gait performance in individuals with stroke*, National Research Council of Thailand
- 2018 Research grant, Pichaya Hengsomboon (Doctoral student), Thesis title: *Effect of sound on postural balance during standing in the elderly with and without knee osteoarthritis*, National Research Council of Thailand
- 2018 Travel grant for the Human Science Summer School, Ms Hataitip Boonchum (Master student), Kyushu University, Fukuoka, Japan
- 2019 Travel grant for the Human Science Summer School, Ms Rattapha Ariyaudomkit (Master student), Kyushu University, Fukuoka, Japan
- 2019-present Norway Scholarship (Mahidol-Norway Capacity Building Initiative for ASEAN), Htet Htet Hnin (Master student), Thesis title: *The association between cognitive function and mobility in idiopathic normal pressure hydrocephalus patients after shunting*, Norway Embassy of Myanmar and Mahidol University
- 2019 Research grant, Ms Rommanee Rojasavastera (Master student), Thesis title: *The effect of action observation training on gait variables and global cognitive functions in older adults with mild cognitive impairment: a randomized controlled trial*, Graduated studies, Mahidol University, Thailand
- 2019 Research grant, Ms Hataitip Boonchum (Master student), Thesis title: *The effect of a home-based stretching exercise program on multisegmental foot*

*motion and clinical signs in individuals with plantar fasciitis*, Graduated studies, Mahidol University, Thailand

- 2019 Research grant, Mr Taufik Eko Susilo (Master student), Thesis title: *The effect of smartphone activities on gait and dynamic postural control during walking with and without obstacle in young adults*, Graduated studies, Mahidol University, Thailand
- 2020 Research grant, Ms Hataitip Boonchum (Master student), Thesis title: *The effect of a home-based stretching exercise program on multisegmental foot motion and clinical signs in individuals with plantar fasciitis*, National Research Council of Thailand
- 2020 Research grant, Ms Rattapha Ariyadomkit (Master student), Thesis title: *The association between cognitive function and mobility in idiopathic normal pressure hydrocephalus patients after shunting*, National Research Council of Thailand

### **Research Interests**

- Gait analysis / Pathological gait analysis (temporo-spatials, kinematics, kinetics, and clinical measures)
- Physical Therapy in neurological patients such as patients with stroke, patients with Parkinson's disease, and patients with Idiopathic Normal Pressure Hydrocephalus (perception, motor imagery, visuomotor, and cognition training)
- Musculoskeletal injury biomechanics, ageing adaptations, and sensorimotor deficit on altered functional performances (gait, turn, obstacle cross, landing)

### **Positions & Working Experiences**

#### ***Physical Therapy Professional:***

July 2009 - Present: Instructor in courses for B.Sc., M.Sc., and Ph.D. (Physical Therapy) Programs, Faculty of Physical Therapy, Mahidol University

- 2010 - Present: Clinical instructor for exchanged students e.g., School of Health, Care and Social Welfare, Maladalen University, Sweden; VIA University College, Denmark; Division of Health Professions, University of Applied Sciences Western, Switzerland; Division of Health Professions, Sheffield Hallam, United Kingdom
- 29 Nov - 1 Dec 2012: Invited speaker entitle “Gait analysis: from basic to advance” of the Health Engineering Symposium, Malaysia
- 8 - 9 Aug 2013: Invited speaker entitle “Gait difficulty in patients with Parkinson’s disease: perspective for physical therapist and health professions” of the 48<sup>th</sup> year Annual Proceeding of Faculty of Physical Therapy: Management in Parkinson’s disease”, Thailand
- 10 - 12 June 2014 Invited speaker entitle “Assessment and treatment for gait dysfunction with neurological conditions” of the Physiotherapy Annual Scientific Meeting, Tangerang, Indonesia.
- 30 October 2014 Invited speaker entitle “Evaluation of gait disturbance” of the 4<sup>th</sup> Siriraj Neuroscience Annual Meeting (SNAC), Faculty of Medicine Siriraj Hospital, Bangkok, Thailand
- 21-23 April 2017 Invited speaker entitle “Gait: From the basic to advance assessments and the clinical application” of the 2<sup>nd</sup> Siriraj Stroke Conference, Trang, Thailand.
- Educational:***
- 2009 - 2010: Working group of Mahidol University Admission for B.Sc. students

2010 - 2011: Secretary of Thailand Qualification Framework (TQF) of Physical Therapy field preparation (Postgraduate level)

January - February 2011: Exchanged teacher at the School of Health, Care and Social Welfare, Maladalen University of Linnaeus-Palme Program, Sweden

***Administrative:***

2009 - 2012: Secretary of foreign affairs section, Faculty of Physical Therapy, Mahidol University

2009 - 2011: Secretary of M.Sc. (Physical Therapy) program, Faculty of Physical Therapy, Mahidol University

2011-2013: Committee member of the research section, Faculty of Physical Therapy, Mahidol University

2012 - 2020: Director of M.Sc. (Physical Therapy) program, Faculty of Physical Therapy, Mahidol University

February 2018 - May 2019 Assistant Dean in Education, Faculty of Physical Therapy, Mahidol University

2018 - 2020: Administrative committee of M.Sc. (Physical Therapy) (International program), Faculty of Physical Therapy, Mahidol University

2020 - Present: Administrative committee of M.Sc. (Physical Therapy), Faculty of Physical Therapy, Mahidol University

2020 - Present: Committee member of the research section, Faculty of Physical Therapy, Mahidol University

***Others:***

2012- 2015: Committee member of Mahidol University Central Institutional Review Board (MU-CIRB)



- 2013-2018: Associate editor of Journal of Medical Imaging and Health Informics (JMIHI)
- 2012 to present: Invited reviewer for the international journals e.g., Journal of Medical Imaging and Health Informatics; Journal of Rehabilitation Research and Development; Journal of Visualized Experiments; Walailak Journal of Science and Technology; The Physician and Sportsmedicine, Acta Gymnica; International Education Studies; Medical Science Monitor; Disability and Rehabilitation; Physiotherapy Research International; Journal of Musculoskeletal and Neuronal Interactions; BMC Health Services Research; Neural Plasticity
- 2012 to present: Invited reviewer for national journals e.g., Thai Physical Therapy Journal; Journal of Associated Medical Sciences; Journal of Sports Science and Technology

***Clinical activities:***

- April 2000 - September 2001: Physical Therapist (part-time), Praram 9 Hospital, Thailand
- September 2000-December 2001: Physical Therapist (part-time), Thonburi 2 Hospital, Thailand
- May 2000 - January 2007: Physical Therapist (part-time), Bangpakok 1 Hospital, Thailand
- September - December 2006: Physical Therapist (part-time), Bangkok 9 International Hospital, Thailand
- April 2004 - November 2004: Neurological Physical Therapist (part-time), Bumrungrad International Hospital, Thailand

July 2009 – Present: Physical Therapist and instructor, Acute Stroke Center, Siriraj Hospital, Thailand

### Teaching Courses

- Physical Therapy in neurological conditions
- Measurement and evaluation for Physical Therapy
- Gait analysis
- Biomechanics

### Professional Memberships

- Member of the Physical Therapy Association of Thailand
- Member of the ESMAC (the European Society of Movement Analysis for Adults and Children)

### INTERNATIONAL PUBLICATIONS (order in present to past, \*Correspondence)

1. **Bovonsunthonchai S\***, Thong-On S, Vachalathiti R, Intravoranont W, Suwannarat S, Smith R. Thai version of the Foot Function Index: a cross-cultural adaptation with reliability and validity evaluation. *BMC Sports Sci. Med* (Revised). —SJR 0.52, Q2 / Impact Factor 1.5—
2. 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 (accepted). —SJR 0.55, Q2 / Impact Factor 1.562—
3. Rojasavastera R, **Bovonsunthonchai S\***, Hiengkaew V, Senanarong V. Action observation combined with gait training to improve gait and cognition in elderly with mild cognitive impairment: a randomized controlled trial. *Dement Neuropsychol* 2020 (accepted) —Impact Factor 0.610—
4. Thongchoomsin S, **Bovonsunthonchai S**, Joseph L\*, Chamnongkich S. Clinimetric properties of the one leg sit to stand test in examining unilateral lower limb muscle strength among young adults. *Int J Clin Pract.* 2020;27:e13556. DOI 10.1111/ijcp.13556. —SJR 0.828, Q2 / Impact Factor 2.613—

5. Surakhamhaeng A, **Bovonsunthonchai S\***, Vachalathiti R. Effects of balance and plyometric training on balance control among individuals with functional ankle instability. *Physiother Quart.* 2020;28(2):38-45. DOI 10.5114/pq.2020.92474. —SJR 0.1, Q4—
6. Wahyuddin W, Vongsirinavarat, M, Mekhora K, **Bovonsunthonchai S\***, Adisaipoapun, R. Immediate effects of muscle energy technique and stabilization exercise in patients with chronic low back pain with suspected facet joint origin: A pilot study. *Hong Kong Physiother J.* 2020;40(2):1–11. DOI 10.1142/S1013702520500109. —SJR 0.296, Q3—
7. **Bovonsunthonchai S\***, Aung N, Hiengkaew V, Tretriluxana J. Improved gait performance using the motor imagery combined with structured progressive circuit class therapy in patients with stroke: a randomized controlled trial. *Sci Rep.* 2020;10(1):6945. DOI 10.1038/s41598-020-63914-8. —SJR 1.41, Q1—
8. **Bovonsunthonchai S\***, Thong-On S, Vachalathiti R, Intiravoranont W, Suwannarat S, Smith R. Alteration of the multi-segment foot motion during gait in individuals with plantar fasciitis: a matched case-control study. *Acta Bioeng Biomed.* 2019;21(4):73-82. DOI 10.5277/ABB-01426-2019-02. —Impact Factor 1.194—
9. Horasart A, Klomjai W, **Bovonsunthonchai S\***. Immediate effect of kinesio tape on gait symmetry in patients with stroke: a preliminary study. *Hum Mvt.* 2020;21(1):73–81; DOI 10.5114/hm.2020.88156. —SJR 0.2, Q3 / Impact Factor 0.440—
10. Thong-On S, **Bovonsunthonchai S\***, Vachalathiti R, Intiravoranont W, Suwannarat S, Smith R. Effect of strengthening and stretching exercises on the temporo-spatial gait parameters in patients with plantar fasciitis: A randomized controlled trial. *Ann Rehabil Med.* 2019;43(6):1-15. DOI 10.5535/arm.2019.43.6.662. —SJR 0.41, Q2—
11. **Bovonsunthonchai S\***, Hengsomboon P, Tangluang S, Anusri P, Chotikul P, Phiwmou W. The effect of sound and vibration on postural balance in healthy young adults. *Walailak J Sci & Tech.* 2019;16(12):975-983. —SJR 0.14, Q4—
12. Aung N, **Bovonsunthonchai S\***, Hiengkaew V, Tretriluxana J, Rojasavastera R, Pheung-Phrarattanatrai A. Validity and reliability of video based system for

- measuring gait parameters in individuals with stroke. *Physiother Res Inter*. 2020; e1803; DOI 10.1002/pri.1803. —SJR 1.28, Q1 / Impact Factor 1.330—
13. Hengsomboon P, Hiengkaew V, Hsu WL, **Bovonsunthonchai S\***. Effect of sound on standing postural stability in the elderly with and without knee osteoarthritis. *Acta Bioeng Biomed*. 2019;21(3); DOI 10.5277/ABB-01390-2019-02. —Impact Factor 1.194—
  14. **Bovonsunthonchai S\***, Witthiwej T, Ngamsombat C, Sathornsumetee S, Vachalathiti R, Muangpaisan W, Hengsomboon P, Suthasinee Thong-On S, Supattra Jankhum S, Yangyoo P. Effect of spinal tap test on the performance of sit-to-stand, walking, and turning in patients with idiopathic normal pressure hydrocephalus. *Nagoya J Med Sci*. 2018;80:53-60. —SJR 0.4, Q3 / Impact Factor 0.897—
  15. Senanarong V\*, **Bovonsunthonchai S**, Aonkaew N, Raksathapat A, Udomphantharak S. Pilot study of rTMS in mild to moderate AD for 30 sessions: effect on cognition and gait performance at six months. *Alzheimer & Dementia* 2017;13(Suppl 7): P932 (Abstract). —SJR 5.45, Q1 / Impact Factor 14.423—
  16. **Bovonsunthonchai S\***, Witthiwej T, Ngamsombat C, Sathornsumetee S, Vachalathiti R. Gait alteration in patients with Idiopathic Normal Pressure Hydrocephalus after cerebral spinal fluid removal. *Gait Posture* 2017;57:256-7. (Abstract). —SJR 1.16, Q1 / Impact Factor 2.414—
  17. Chupeerach N, Somprasong S, **Bovonsunthonchai S\***. Comparison of muscle activities between two unilateral weight bearing exercises in patellafemoral pain syndrome. *Walailak J Sci & Tech*. 2016;13(4):243-50. —SJR 0.14, Q4—
  18. Anukoolkarn K, Vongsirinavarat M\*, **Bovonsunthonchai S**, Vachalathiti R. Plantar pressure distribution pattern during mid-stance phase of the gait in patients with chronic non-specific low back pain. *J Med Assoc Thai*. 2015;98(9):896-901. —SJR 0.255, Q3—
  19. Jalayondeja C, Jalayondeja W, Vachalathiti R, **Bovonsunthonchai S\***, Sakulsriprasert P, Kaewkhuntee W, Bunprajun T, Upiriyasakul R. Cross-cultural adaptation of the compendium of physical activity: Thai translation and content validity. *J Med Assoc Thai*. 2015;98(Suppl 5):S48-52. —SJR 0.255, Q3—

20. Pheung-phrattanatrai A, **Bovonsunthonchai S\***, Hiengkaew V, Prayoonwiwat N, Chotik-Anuchit S. Improvement of Gait Symmetry in Patients with Stroke by Motor Imagery. *J Med Assoc Thai*. 2015;98(Suppl 5):S124-129. —SJR 0.255, Q3—
21. Panichvit C, **Bovonsunthonchai S\***, Vachalathiti R, Limpasutirachata K. Effect of foot muscles training on plantar pressure distribution during gait, foot muscle strength, and foot function in persons with flexible flatfoot. *J Med Assoc Thai*. 2015;98(Suppl 5):S12-7. —SJR 0.255, Q3—
22. **Bovonsunthonchai S\***, Khobkhun F, Vachalathiti R. Ground reaction forces of the lead and trail limbs during stepping over the obstacle. *Med Sci Monit*. 2015;21:2041-9. —SJR 0.549, Q2 / Impact Factor 1.403—
23. **Bovonsunthonchai S\***, Hiengkaew V, Vachalathiti R. Temporospatial analysis: Gait characteristics of young adults and the elderly in turning while walking. *Inter J Ther Rehabil*. 2015;22:129-34. —SJR 0.187, Q3—
24. **Bovonsunthonchai S\***, Vachalathiti R, Pisarnpong A, Khobkhun F, Hiengkaew V. Spatiotemporal Gait Parameters for Patients with Parkinson's Disease Compared with Normal Individuals. *Physiother Res Inter*. 2014;19:158-165. DOI 10.1002/pri.1579. —SJR 0.485, Q2—
25. Vongvaivanichakul P, Tretriluxana J\*, **Bovonsunthonchai S**, Pakaprot N, Laksanakorn W. Reach-to-Grasp Training in individuals with chronic stroke Augmented by Low-Frequency Repetitive Transcranial Magnetic Stimulation. *J Med Assoc Thai*. 2014;97(suppl 7):S45-49. —SJR 0.25, Q3—
26. Prasomsri J, Jalayondeja C\*, **Bovonsunthonchai S**, Khemthong S. Walking and stair climbing abilities in individuals after chronic stroke with and without mental health problem. *J Med Assoc Thai* 2014; 97(suppl 7):S10-14.—SJR 0.25, Q3—
27. **Bovonsunthonchai S\***, Hiengkaew V, Vachalathiti R, Vongsirinavarat M, Tritriluxana J. Effect of speed on the upper and lower limb coordination during gait in individuals with stroke. *Kaohsiung J Med Sci*. 2012;28(12):667-672. DOI 10.1016/j.kjms.2012.04.036. —SJR 0.222, Q3—
28. **Bovonsunthonchai S**, Hiengkaew V\*, Vachalathiti R, Vongsirinavarat M. Gait symmetrical indexes and their relationships to muscle tone, lower extremity

function, and postural balance in stroke population. *J Med Assoc Thai.* 2011; 94:476-84. (from the Dissertation) —SJR 0.248, Q3—

**NATIONAL PUBLICATIONS** (order in present to past, \*Correspondence)

1. Rakbangboon T, Samala M\*, **Bovonsunthonchai S**, Guerry G, Rupasinghe KK, Ramakrishnan L, Weerasinghe S, Sasika J, Hoa PT, Charatrungralan T. The vertical ground reaction force and temporal-spatial parameters of transfemoral amputees wearing three prosthetic knee joints available in Thailand: a pilot study. *Siriraj Med J* 2019;71:399-404; DOI: 10.33192/Smj.2019.60. (TCI-1)
2. Thongchoomsin S, **Bovonsunthonchai S**, Chamnongkich S\*. Biomechanical differences between sit-to-stand performances using one leg and two legs in young adults. *J Assoc Med Sci.* 2020;53(1):29-36. (TCI-1)
3. Horasart A, **Bovonsunthonchai S\***, Klomjai W. The effect of Kinesio taping at the leg on compensatory movement during walking in individuals with stroke. *UTK Res J.* 2018;12(2):104-111. (TCI-1)
4. Sonthikul C, **Bovonsunthonchai S\***, Tretriluxana J and Bunprajan T. Improvement of symmetrical gait index in people with chronic stroke. *Naresuan Univ J: Sci & Tech* 2016;24(2):43-51. (TCI-1)
5. Upiriyasakul R\*, **Bovonsunthonchai S**, Sakunkaruna Y, Sakunkaruna S, Thong-On S, Laisirireungri D, Incidence of injuries in marathon runners; Bangkok marathon. *J Sport Sci Tech.* 2015;15(1):171-78. (TCI-1)
6. Chupeerach N, Somprasong S, **Bovonsunthonchai S\***. Electromyography activities during forward step up and wall single leg squat in individuals with patellofemoral pain syndrome. *J Sport Sci Tech.* 2015;15(1):179-90. (TCI-1)
7. Khobkhun F, **Bovonsunthonchai S\***, Vachalathiti R, Pisarnpong A. Improvement of gait initiation after physical therapy treatment in patients with Parkinson's disease. *Chiang Mai Univ J Nat Sci.* 2014;13(1):43-49. (TCI-1)
8. Khobkhun F, **Bovonsunthonchai S\***, Vachalathiti R, Pisarnpong A. Effects of the TrainingBIG™ and Task specific concepts on turning over 180 degrees in patients with Parkinson's disease. *Khon Kaen Univ Res J.* 2012;17(6):1003-1011. (TCI-1)

9. **Bovonsunthonchai S\***, Hiengkaew V, Vachalathiti R. Obstacle crossing characteristics in the healthy young female and elderly female subjects. *Siriraj Med J.* 2012;64(2):52-56. (TCI-1)

#### **PRESENTATIONS:**

1. Khobkhun F, **Bovonsunthonchai S**. The Effect of Visual and Auditory Cueing on Obstacle Crossing Characteristics in Healthy Young Females. Proceeding in RSU International Research Conference, May 1, 2020. Pathum Thani, Thailand.
2. Rojasavastera R, **Bovonsunthonchai S**, Hiengkaew V, Senanarong V. Effect of action observation training on gait variables and global cognitive function in older adults with mild cognitive impairment: A randomized controlled trial. Page 113-125. The 11th Science Research Conference, 23-24 May 2019, Bangkok, Thailand.
3. Sinpithakkul C, Kusakunniran W, **Bovonsunthonchai S**, Wattananon P. Game-based Enhancement for Rehabilitation Based on Action Recognition Using Kinect. IEEE Region 10 Annual International Conference, Proceedings/TENCON 2018-October, 8650226:303-308.
4. Surakhamhaeng A, **Bovonsunthonchai S**, Vachalathiti R. Comparison of balance training and plyometric training on balance control in females with Functional Ankle Instability. The 1<sup>st</sup> National Graduate Research Conference and Creative Innovation Competition 17-18 August 2017, Chiang Mai, Thailand.
5. Phanamornchai P, **Bovonsunthonchai S**, and Hiengkaew V. Immediate effect of the conventional- and the specific-motor imagery on gait performance in individuals with stroke. The 1<sup>st</sup> National Graduate Research Conference and Creative Innovation Competition, 17-18 August 2017, Chiang Mai, Thailand.
6. Suanchan S, Vachalathiti R, Sinsurin K, **Bovonsunthonchai S**. Effect of core stabilization on vertical jumping performance collegiate volleyball athletes. The 3<sup>rd</sup> international conference on hospitality, leisure, sports, and tourism, 22-24 July 2015, Tokyo, Japan.
7. 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 7<sup>th</sup> National Conference of Physical Therapy, 23-26 June 2015, Bangkok, Thailand.
8. Kasun Kithsiri Rupasinghe, Loganayaki Ramakrishnan, K.L. Jeewantha Sasika, Stephney Weerasinghe, Pham Thi Hoa, Manunchaya Samala, Catherine McConnell, **Sune Bovonsunthonchai**, Thanyaporn Rakbanboon. The Effect of Three Prosthetic Knee Joints on Vertical Ground Reaction Force Patterns in Transfemoral Amputee Gait. ISPO World Congress, 22-25 June 2015, Lyon, France.
  9. Liphatcharaporn T, **Bovonsunthonchai S**, Hiengkaew V Temporo-spatials and lower extremity joint angles in during walking in persons with Leg Length Discrepancy. The 2<sup>nd</sup> Annual International Conference on Green ASIA and Sustainability Forum: Sustainable Cities, 19-20 June, 2015, Bangkok, Thailand.
  10. Prasomsri J, **Bovonsunthonchai S**, Khemthong S, Jalayondeja C. The effect of stress, anxiety and depression on functional recovery in individuals with stroke. The 2<sup>nd</sup> ASEAN Plus Three Graduate Research Congress (AGRC). 5-7 Feb 2014, Bangkok, Thailand.
  11. **Bovonsunthonchai S**, Vachalathiti R, Laddawong T, Sakunkaruna Y. Ground reaction forces after taping during single drop landing in persons with functional ankle instability. The 11<sup>th</sup> International Association of Science and Technology for Development (IASTED) International Conference: Biomedical Engineering, 23-25 June 2014, Zurich, Switzerland. DOI: 10.2316/P.2014.818-009
  12. Prayoududomlerd K, Hiengkaew V, **Bovonsunthonchai S**. Immediate effect of trunk and leg muscle stretching on gait in the elderly with thoracic hyperkyphosis. The 8<sup>th</sup> Srinakharinwirot University Research Conference, 26-27 Nov 2014, Bangkok Thailand.
  13. Vachalathiti R, **Bovonsunthonchai S**, Thong-on S, Intawachirarat N. Intra-limb coordination during obstacle crossing over different obstacle heights. The 11<sup>th</sup> International Association of Science and Technology for Development (IASTED) International Conference: Biomedical Engineering, 23-25 June 2014, Zurich, Switzerland. DOI: 10.2316/P.2014.818-017
  14. Kanchanakachen N, **Bovonsunthonchai S**, and Vachalathiti R. Lumbar and pelvic angular displacements during walking in Individuals with iliopsoas



shortening. The 10<sup>th</sup> National Kasetsart University Kamphaeng Saen Conference, 6-7 Dec 2013, Nakhon Pathom, Thailand.

15. **Bovonsunthonchai S**, Khobkhun F, Vachalathiti R. Effects of visual and auditory on obstacle crossing characteristics. The 6<sup>th</sup> Asia Western Pacific Region (AWP) of World Confederation for Physical Therapy (WCPT) and The 12<sup>th</sup> International congress of Asian Confederation for Physical Therapy (ACPT) Congress, 5-9 Sep 2013, Taichung, Taiwan.
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