Curriculum Vitae:

Name: Dr.Orawan Prasartwuth

Gender: Female

Academic Position: Associate Professor

Qualification: PhD (Biomedical Sciences), The University of Sydney, Australia
MPhty (Research), The University of Queensland, Brisbane, Australia
BSc (Physical Therapy), Chiang Mai University, Thailand

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Education:

2001 – 2006	Doctor of Philosophy in Biomedical Science, The University of Sydney, Australia
1994 – 1997	Master of Physiotherapy by research, The University of Queensland, Brisbane, Australia
1984 – 1988	Bachelor of Sciences in Physical Therapy, Chiang Mai University, Chiang Mai, Thailand

Working Experience:

1989-now	Lecturer
2011-now	Head of Department

Research of Interest:

Fatigue: Central or neural (supraspinal and spinal) and muscular contributions
Eccentric exercise: force deficit, delayed onset muscle soreness (DOMS)
Repeated bout (protective effect), tendon adaptation (stiffness)

Area of Interest:

Electromyographic (EMG) activity
Single motor unit recording
Magnetic stimulation (Motor cortex stimulation)
Voluntary activation (Motor nerve stimulation)
Eccentric exercise
Hip protector in elderly
Running

Research Grants:

Principle Investigator:

2012-2013	Associated Medical Sciences Research Fund Collaborating research with Prof Ian Cameron and Dr Wei Yu, University of Sydney, Australia Budget Grant 45,000 THB
2009-2011	Thailand Research Fund and Ministry of University Affairs Grant Collaborating research with Prof Kemal Turker, School of Medicine, KOC University, Turkey Budget Grant 480,000 THB
2009-2010	Associated Medical Sciences Faculty Research Grant Collaborating research with Assist Prof Suchart Gotan, Department of Radiologic Technology, Chiang Mai University Thailand. Budget Grant 57,200 THB
2008-2009	Sport Authority of Thailand Grant. Budget Grant 300,000 THB
2006-2008	Thailand Research Fund and Ministry of University Affairs Grant Collaborating research with Prof Kemal Turker, Ege University, Turkey Budget Grant 480,000 THB
2007-2008	Biomedical Engineering Program Grant, Faculty of Engineering, Chiang Mai University. Budget Grant 100,000 THB
2006-2007	Biomedical Engineering Program Grant, Faculty of Engineering, Chiang Mai University Budget Grant 100,000 THB
1998-1999	Supporting New Researcher Fund, Chiang Mai University Budget Grant 25,000 THB

Co-investigator:

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Awards:

- Scholarship from the Ministry of University Affairs of Thailand, 2008-2011 (Applied by teacher for PhD student)
- Scholarship from the Ministry of University Affairs of Thailand, 2002 -2005
- Scholarship from Chiang Mai University, 2001 - 2002
- Scholarship from the Australian Agency for International Development (AusAid), 1994 – 1997.
- Best Oral Presentation Awards at International Scientific Congress: 1st Asian Indoor Games; October 17-19, 2005; Bangkok, Thailand
- Best Oral Presentation Awards by student in early stages of degree at Research Student; Conference 2003, School of Biomedical Sciences, The University of Sydney. June 11, 2003; Australia

Professional Membership:

The Physical Therapy Association of Thailand

Latest Publications:

Peer-Reviewed Journal:

1. สุภาพร วรรณมณี และ อรวรรณ ประศาสน์วุฒิ (2562) ผลของการออกกำลังกายเสริมความมั่นคงของข้อไหล่ต่อช่วงการเคลื่อนไหวในผู้ป่วยถุงหุ้มข้อไหล่ยึดติด **วารสารกายภาพบำบัด** 41 (3): 112-128. **TCI**

2. **Orawan Prasartwuth**, Roongtip Suteebut, Jitapa Chawawisuttikool, Utku S Yavuz and Kemal S Turker (2019) Using first bout effect to study the mechanisms underlying eccentric exercise induced force loss. **Journal of Bodywork and Movement Therapies** 23(1): 48-53. **Q2, IF 1.120** https://doi.org/10.1016/j.jbmt.2017.11.008

3. Monchuleeporn Viriyawattanakul, Patima Silsupadol, Wei Shin Yu, and **Orawan Prasartwuth** (2558) Effectiveness of Hornsby Healthy Hip Pants on Hip Fracture Prevention from Falls in the Elders Living in Institution. **วารสารเทคนิคการแพทย์และกายภาพบำบัด คณะเทคนิคการแพทย์ มหาวิทยาลัยขอนแก่น** 27 (3) : 287-297. TCI

4. Sutima Thibordee, **Orawan Prasartwuth** (2014) Effectiveness of roundhouse kick in elite Taekwondo athletes. **Journal of Electromyography and Kinesiology.** 24:353-358. **Q2, IF 1.740**

5. Sutima Thibordee, **Orawan Prasartwuth** (2014) Factors influencing the impact force of the Taekwondo Roundhouse Kick. **Chiang Mai University Journal of Natural Sciences.** 13(1):51-56**. TCI**

6. Erdal Binboga, **Orawan Prasartwuth**, Murat Pehlivan, and Kemal Türker (2011) Responses of human soleus motor units to low threshold stimulation of the tibial nerve. **Experimental Brain Research.** 213:73-86. **Q3, IF 2.395**

7. Roongtip Suteebut, Suchart Kothan, **Orawan Prasartwuth** (2011) Effect of eccentric muscle training on achilles tendon adaptation of healthy persons. **Thai Journal of Physical Therapy.** 33(1):17-31. **TCI**

8. **Prasartwuth O,** Binboga E, Turker KS (2008). A study of synaptic connection between low threshold afferent fibres in common peroneal nerve and motoneurones in human tibialis anterior, **Experimental Brain Research.** 191 (4), 465-472. **Q3, IF 2.395**

9. Allen TJ, Butler JE, Gandevia SC, **Prasartwuth O** and Taylor JL (2006). Muscle damage and exercise: does the brain contribute to muscle weakness? **Physiology News**. 64, 21-22.

10. **Prasartwuth O**, Allen TJ, Butler JE, Gandevia SC, Taylor JL (2006). Length-dependent changes in voluntary activation, maximal voluntary torque and twitch responses after eccentric damage in humans, **Journal of Physiology**. 571: 243-252. **Q1, IF 4.547**

11. **Prasartwuth O**, Taylor JL, Gandevia SC (2005). Maximal force, voluntary activation and muscle soreness after eccentric damage to human elbow flexor muscles, **Journal of Physiology**. 567: 337-348. **Q1, IF 4.547**

Conferences Presentation:

Oct, 2010	The Annual meeting of the Thailand Research Fund (TRF) 10th, Petchaburi, Thailand
Sep,2010	Ministry of University Affairs (MUA), Chonburi, Thailand
Sep,2010	Sports Authority Thailand (SAT), Bangkok, Thailand
Oct, 2008	The Annual meeting of the Thailand Research Fund (TRF) 8th, Petchaburi, Thailand
Dec, 2007	Educational research Exchange Joint Symposium, Chiangmai, Thailand
Oct, 2007	The Annual meeting of the Thailand Research Fund (TRF) 7th, Chonburi, Thailand
Oct, 2005	1st Asian indoor games scientific congress, Bangkok, Thailand
Oct, 2004	Neuroscience conference, San Diego, United States
Oct, 2004	From Cell to Society 4: Fourth College of Health Sciences Research Conference, The University of Sydney**,** Australia
Feb, 2003	The 24th Annual Meeting of the Australian Neuroscience Society, Melbourne, Australia
Nov, 2002	Fourth Australasian Biomechanics Conference, La Trobe University, Melbourne, Australia
Sep, 2002	From Cell to Society 3: The Medical Foundation and The College of Health Sciences, The University of Sydney**,** Australia

บทคัดย่อใน *proceeding conferences:*

1. สุภาพร วรรณมณี และ อรวรรณ ประศาสน์วุฒิ (2562) ประสิทธิผลของการออกกำลังกายเสริมความมั่นคงของข้อไหล่ในผู้ป่วยถุงหุ้มข้อไหล่ยึดติด ในการประชุมวิชาการระดับชาติ ประจำปี 2560 (ครั้งที่ 1) ของสำนักวิชาวิทยาศาสตร์สุขภาพ มหาวิทยาลัยแม่ฟ้าหลวง 7-8 ธันวาคม 2560 **(รางวัลการนำเสนอผลงานวิจัยดีเด่น)**

2. Viriyawattanakul M, Silsupadol P, Yu WS and **Prasartwuth O** (2014) Does wearing hip protectors increase awareness of falls and lead to decreased falls?. 9th Pan-Pacific conference on Rehabilitation cum 21st Annual Congress of Gerontology, Hong Kong, 29-30 November (Abstract Number: A1044), Page 31.
3. **Prasartwuth O**, Suteebut R, Chawawisuttikool S, Mankhetkorn S, Nosaka, K (2010) Adaptations in Repeated Bout Effect of Three Sub-maximal Eccentric Damaging Exercise. Annual Academic Meeting, Faculty of Associated Medical Sciences, Chiang Mai University. 30 November - 3 December, Page 343.
4. **Prasartwuth O**, Suteebut R, Chawawisuttikool S, Mankhetkorn S, Nosaka, K (2010) Effect of Three Submaximal Loads of First Eccentric Exercise Bout on Neural and Muscular Adaptations in Repeated Bout Effect. The Annual meeting of the Thailand Research Fund (TRF) 10th, Petchaburi, Thailand, 14-16 October, Page 232.
5. Sutima Thibordee and **Orawan Prasartwuth** (2010) Low versus high impact force during roundhouse kick in black-belt Thai Taekwondo players: Electromyography and kinematic analysis. The Annual meeting of Commission of Higher Education (CHE) 3rd, Chonburi, Thailand, 9-11 September, Page 192

6. สุติมา ธิบดี และ **อรวรรณ ประศาสน์วุฒิ** (2553) การเปรียบเทียบการเตะมในท่าร่วด์คิกด้วยแรงในระดับสูงและระดับต่ำ ในนักกีฬาเทควันโด: การวิเคราะห์คลื่นสัญญาณไฟฟ้าของกล้ามเนื้อและจลนศาสตร์ การประชุมการนำเสนอผลงานวิจัยด้านวิทยาศาสตร์การกีฬา วันที่ 2-4 กันยายน 2553 หน้า 48-49.
7. รุ่งทิพย์ สุธีบุตร, สุชาติ โกทันย์, **อรวรรณ ประศาสน์วุฒิ** (2553) ผลการฝึกกล้ามเนื้อแบบยืดยาวออกต่อการปรับตัวของเอ็นกล้ามเนื้อร้อยหวายของคนสุขภาพดี การประชุมการนำเสนอผลงานวิจัยด้านวิทยาศาสตร์การกีฬา วันที่ 2-4 กันยายน 2553 หน้า 50-51. **(รางวัลการนำเสนอผลงานวิจัยดีเด่น)**
8. Binboga E, Yavuz SU, **Prasartwuth O**, Sendemir-Urkmez SA, Turker KS (2008). The effect of sensory inputs on the motoneurone activity in human soleus muscle. Mersin University Health Sciences Journal, Special Issue (S-21), Page 21.
9. **Prasartwuth O**, Binboga E, Turker KS (2008).). A novel study to estimate synaptic connection between low threshold fibres in nerves and human motoneurones. The Annual meeting of the Thailand Research Fund (TRF) 8th, Petchaburi, Thailand, 16-18 October, Page 79.
10. Binboga E, Yavuz SU, **Prasartwuth O**, Sendemir-Urkmez SA, Turker KS (2008). Investigation of human soleus motoneuron synaptic potentials triggered by muscle spindle Ia afferents, Neuroanatomy 7; Suppl 1 Page 7-8.
11. **Prasartwuth O** and Neam-in Hudsaleark (2007). Invention Sample and Hold Amplifier (SHA) for evaluating the activation failure of nervous system. Educational Research Exchange Joint Symposium, Chiang Mai University, Thailand, 13-14 December, Page 15.
12. **Prasartwuth O** and Turker KS (2007). A novel study to estimate synaptic connection between low threshold fibres in nerves and human motoneurones. The Annual meeting of the Thailand Research Fund (TRF) 7th, Chonburi, Thailand, 11-13 October, Page 341.
13. **Prasartwuth O**, Taylor JL, Gandevia SC (2005). Changes in maximal voluntary torque, voluntary activation and twitch properties after eccentric exercise. The Challenging Role of Sports Science for Better Sports Performance. Asia Hotel, Bangkok, Thailand, 17-19 October, Page 48. **(Best oral presentation Award)**
14. **Prasartwuth O**, Taylor JL, Gandevia SC (2004). Voluntary torque-angle and the resting twitch-angle relationship following eccentric exercise. Fourth College of Health Sciences Research Conference 2004 “From Cell to Society 4”, The College of Health Sciences, The University of Sydney, Fairmont Resort, Leura, Australia, 27 - 28 October, Page 4-4.
15. **Prasartwuth O**, Taylor JL, Gandevia SC (2004). Time course of changes in maximal torque, voluntary activation and twitch properties during delayed onset muscle sorenes, Neuroscience 2004, San Diego, United States, 23 - 27 October, Page 354.
16. **Prasartwuth O**, Taylor JL, Gandevia SC (2003). Voluntary activation after eccentric exercise. , Proceedings of the Australian Neuroscience Society 24th Annual Meeting, vol 15. ANS, Melbourne, Australia, 30 January - 3 February, Page 179.
17. **Prasartwuth O**, Cathers I, Gwin T, Balnave R (2002). Motor unit activation in concentric and eccentric muscle contractions after fatiguing exercise. , Proceedings of the Fourth Australasian Biomechanics Conference ABC4. La Trobe University, Melbourne, Australia, 28 - 30 November, Page 95.
18. **Prasartwuth O**, Cathers I, Gwin T, Balnave R (2002). Comparison of motor unit activation in concentric and eccentric muscle contractions in biceps brachii after fatiguing exercise, Third Research Conference 2002 "From Cell to Society 3" The Medical Foundation and The College of Health Sciences, The University of Sydney, Fairmont Resort, Leura, Australia,18 - 19 September, Page 20-5.