

## Curriculum Vitae

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Associate Professor

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### *Educational Background*

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Ph. D.	Allied Health Sciences	National Cheng Kung University	2013
M.S.	Behavior Sciences	Kaohsiung Medical University (KMU)	2000
B.S.	Physical Therapy	Kaohsiung Medical University (KMU)	1993

### *Experiences*

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Associate Professor, Department of Physical Therapy, KMU	2013 – Now
Assistant Professor, Department of Physical Therapy, KMU	2007 – 2013
Lecturer, Department of Physical Therapy, KMU	2000 – 2007
Teaching Assistant, Department of Rehabilitation Medicine, KMU	1993 – 2000
Part time --	
Senior Physical Therapist, Department of Phys Med & Rehabil, KMUH	2000 – 2015
Junior Physical Therapist, Department of Phys Med & Rehabil, KMUH	1993 – 2000

### *Clinical Interests*

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Physical Therapy for Neurological Disease

Women's Health and Physical Therapy

Core strengthening exercises

### *Research Interests*

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My research interests are focusing on two major areas:

- 1) Neurological physical therapy
- 2) Evaluation of trunk muscle functions
- 3) Evaluation of core stability

- 4) Evaluation of balance or mobility in stroke patients
- 5) Rehabilitative ultrasound imaging for abdominal muscles
- 6) Physical therapy for pregnant-related pelvic pain
- 7) Core strengthening exercises for postpartum women
- 8) Evaluation and training of abdominal muscle function for women after breast reconstruction with a transverse rectus abdominis myocutaneous flap

## *Courses*

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- Applied neuroscience (Fundamentals for physical therapy)
- Neurological physical therapy
- Functional training of activities of daily living
- Women's health and physical therapy
- Principles and application of core muscle training
- Fieldwork

## *Research Projects*

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- 2013.8.1-2014.7.31(extend to 12.31), National Science Council, The comparisons of effects of core stability exercise and Tai Chi on core muscle performances, core stability and balance in community-living elderly, NSC 102-2314-B-037 -018, \$ 833,000
- 2012.6.1-2013.5.31, National Science Council, Development of pressure feedback system for lumbar stabilization and software for real-time visual and auditory feedback on pressure, NSC 101-2622-B-037 -003 -CC3, \$ 450,000
- 2011.6.1-2012.5.31, National Science Council, Development of the isometric dynamometer system for trunk muscles and software for real-time visual feedback on muscle strength, NSC 100-2622-B-037 -001 -CC3, \$ 790,000
- 4. 2009.8.1~2011.7.31, National Science Council, Post-mastectomy Women underwent Transverse Rectus Abdominis Musculocutaneous Flap (TRAM) Surgery: Its Influence on Abdominal Muscle Function and the Effects of Therapeutic Exercises, NSC 98-2314-B-037 -008 -MY2, \$ 1,628,000

## *Patents*

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- **Liaw, Lih-Jiun;** Hou, Yi-Yu; Guo, Lan-Yuen; Tsai, Te-Shin/The pressure feedback system of human muscles stability/M453139/R.O.C./NSC 101-2622-B-037 -003 -CC3 2013~2022
- **Liaw, Lih-Jiun;** Tsai, Yung-Shen Hsu, Ar-Tyan; Guo, Lan-Yuen; Liao, Chien-Fen; Chen, Cheng-Chun /Isometric Dynamometer Device for Trunk Muscles/I 468151/R.O.C./NSC 100-2622-B-037 -001 -CC3, 2015~2032

## Publication (Articles in Peer-Reviewed Journals)

- Liao CF, **Liaw LJ**, Wang RY, Su FC, Hsu AT. Relationship between trunk stability during voluntary limb and trunk movements and clinical measurements of patients with chronic stroke. *J Phys Ther Sci*. 2015 ;27(7):2201-6. (SCI)
- You YL, Su TK, **Liaw LJ**, Wu WL, Chu IH, Guo LY. The effect of six weeks of sling exercise training on trunk muscular strength and endurance for clients with low back pain. *J Phys Ther Sci*. 2015;27(8):2591-6. (SCI)
- Wu WL\*, Chen YY, Wang CC, Chen CH, Guo LY, **Liaw LJ**. Influence of working memory task and time on postural control of children with attention deficit hyperactivity disorder. *J Phys Ther Sci* 2014;26(3):345-347. (SCI)
- **Liaw LJ**, Lin SD, Guo LY, Hou YY, Hou MF, Hsu AT\*. An ultrasound imaging evaluation of the abdominal wall muscles following breast reconstruction with unilateral pedicled transverse rectus abdominis myocutaneous (TRAM) flap. *Phys Ther* 2013;93(3):356-368. (SCI)
- Chen YY, **Liaw LJ**, Liang JM, Hung WT, Guo LY, Wu WL\* .Timing perception and motor coordination on rope jumping in children with attention deficit hyperactivity disorder. *Phys Ther Sport* 2013;14(2):105-109. (SCI)
- **Liaw LJ\***, Wu WL, Guo LY. Stabilizing Ability of Abdominal Muscles as Measured by Two Leg Loading Tests in Healthy Female. *FJPT* 2012;37(4):297-308.
- Hsu MJ\*, **Liaw LJ**, Chang YJ .Metabolic Syndrome and Stroke. *FJPT* 2012;37(2):136-145.
- **Liaw LJ\***, Liu MF, Guo LY, Liao CF, Tung YC, Wu YT. Abdominal Muscle Thickness Measured by Ultrasound Imaging at Different Regions in Healthy Young Females and Inter-rater Reliability. *FJPT* 2011;36(2):100-111.
- **Liaw LJ\***, Hsu MJ, Liao CF, Liu MF, Hsu AT\*. The Relationships between Inter-recti Distance Measured by Ultrasound Imaging and Abdominal Muscle Function in Postpartum Women: a 6-month Follow-up Study. *JOSPT* 2011;41(6):435-443. (SCI)
- Liu MF, Chou PH, **Liaw LJ**, Su FC\* .Lower-limb adaptation during squatting after isolated posterior cruciate ligament injuries. *Clinical Biomechanics*. *Clinical Biomechanics* 2010;25:909-913. (SCI)
- Chen SS, Lin YC, **Liaw LJ**, Ou YL, Yang YS, Chang JJ\*. Comparison of Two Resistive Arm Movement Trainings on Functional Recovery of Upper Extremity in Patients With Chronic Stroke. *Journal of Taiwan Occupational Therapy Association* 2010;28(2):16-30.
- **Liaw LJ**, Hsieh CL, Lo SK, Chen HM, Lee S, Lin JH\*. The relative and absolute reliability of two balance performance measures in chronic stroke patients. *Disability and Rehabilitation* 2008;30(9):656-661. (SSCI)
- **Lih-Jiun Liaw**, Chien-Fen Liao, Mei-Chih Huang\*. Appraisal of the Professional Code of Ethics for Physical Therapy. *Formosan Journal of Physical Therapy (FJPT)* 2008;33(3):197-202.
- Chien-Fen Liao, **Lih-Jiun Liaw**, Mei-Chih Huang\*. Ethical and Legal Issues of Medical Negligent Caused by Physical Therapy Intern. *Formosan Journal of Physical Therapy* 2008;33(3):203-208.
- Chen HM, Hsieh CL, Lo SK, **Liaw LJ\***, Chen SM, Lin JH\*. The test-retest reliability of two mobility performance tests in patients with chronic stroke. *Neurorehabilitation and Neural Repair* 2007;21:347-352. (SCI)
- **Liaw LJ**, Hsieh CL, Lo SK, Lee S, Huang MH, Lin JH\*. Psychometric properties of the modified Emory Functional Ambulation Profile in stroke patients. *Clinical*

Rehabilitation 2006;20:429-437. (SCI)

- **Lih-Jiun Liaw**\*, Sin-Mei Liu, Shih-Fen Hsiao\*. The reliability of measuring of inter-recti distance using real-time ultrasonography. Formosan Journal of Physical Therapy 2005;31:213-218.