

HUI-TING SHIH

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EDUCATION

Ph.D. in Interdisciplinary Health Sciences program, Rehabilitation Sciences tract, Clinical Locomotion Neuromechanics Lab 2016—present

University of Nevada, Las Vegas (UNLV), Las Vegas, NV, USA

Advisor: Szu-Ping Lee, Ph.D.

M.S. in Physical Therapy, Postural Control Lab 2011—2013

National Taiwan University (NTU), Taipei, Taiwan;

Thesis: *A Test of Challenge Point Framework With Varying Balance Task Difficulty in Subacute Stroke—A Case Series Study*

Advisor: Ming-Hsia Hu, Ph.D.

B.S. in Physical Therapy 2007—2011

National Taiwan University (NTU), Taipei, Taiwan

PUBLICATIONS & CONFERENCES

1. **HT Shih**, CT Hsieh, CY Huang, MH Hu. "A Test of Challenge Point Framework With Varying Balance Task Difficulty in Subacute Stroke—A Case Series Study" (revised from dissertation)
2. Taiwan Physical Therapy Association. "Physical Therapy Clinical Practice Guidelines for Burn Care and Functional Rehabilitation." 2015 (supervised by Ministry of Health and Welfare, Taiwan)
3. **HT Shih**, TS Chen, SW Li, BJ Chen, ST Wang, HC Yen. "Clinical Question: What are the Different Effects of Anterior/Posterior Ankle-foot Orthoses Applying on Stroke Patients' Gait Correction?" *FJPT*;2011;36(4)292-298.
4. SP Lee, HL Teng, C Gray, M Poggemiller, I Tracy, **HT Shih**. Four Weeks of Training with Simple Postural Instructions Changes Trunk Posture and Foot Strike Pattern in Recreational Runners. (In preparation)
5. T Iwatsuki, **HT Shih**, B Poston, G Wulf. EMG activity and autonomy support in isometric force production. (In preparation)
6. Y Lin, YL Lin, TC Chen, AC Chung, PH Tsai, HY Hu, **HT Shih**, YL Li, TH Chen, MH Hu*. "Community-based Group Exercise for Older Adults with Cognitive Impairment: A Pilot Study." 12-13 December 2013, Hong Kong 16th APRC of ADI 2013.
7. Y Lin, YL Lin, BH Tsai, **HT Shih**, MH Hu*. "Physical Exercises Group for Older Adults: Planning and Execution." 5-6 September, 2013, Tsai Lecture Hall & Wan Tsai Research Hall, College of Law, National Taiwan University. International Congress of Day Care.
8. Y Lin, YL Lin, TC Chen, AC Chung, PH Tsai, HY Hu, **HT Shih**, YL Li, TH Chen, MH Hu*. "Community Rehabilitation: A Pilot Study on Group Physical Exercises for Older Adults with Cognitive Impairment." 23-27 June 2013, Seoul, Korea 20th IAGG World Congress of Gerontology and Geriatrics.

9. **HT Shih**, CT Hsieh, CY Huang, MH Hu. "Response to Different Balance Training Task Difficulties in Chronic Stroke: A Pilot Study." National Taiwan University Physical Therapy Student Conference 2013.

EQUIPMENT COMPETENCIES

1. VICON Motion Capture System
2. MATLAB Software
3. Transcranial Magnetic Stimulation (TMS)
4. BrainSight Brain Navigation System
5. HUMAC NORM Isokinetic Dynamometer
6. Smart Balance Master/ Bertec Balance Advantage
7. Protokinetics Zeno Walkway for Gait Analysis
8. Wired and Wireless Electromyography (EMG)
9. Hand Held Dynamometer
10. DEXA Scan Body Composition Analyzer
11. Biospace InBody S10 Body Composition Analyzer

RESEARCH EXPERIENCES

Research Investigator: Clinical Locomotion Neuromechanics Lab, Dept. of Physical Therapy, UNLV

1. Four Weeks of Training with Simple Postural Instructions Changes Trunk Posture and Foot Strike Pattern in Recreational Runners.
2. Changes of Corticospinal Excitability in People with Diabetic Neuropathy: A TMS Study
3. Mobility Outcomes and Patient Perception of the Benefits of Physical Therapy in Individuals with Limb Loss
4. EMG activity and autonomy support in isometric force production
5. Rapid Screening of Traumatic Brain Injuries in Student Athletes and Veterans
6. Modulation of the Spinal Circuit Using Transcranial Direct Current Stimulation in Individuals Post Stroke

Research and Executive Assistant: Postural Control Lab, Dept. of Physical Therapy, NTU

1. A Test of Challenge Point Framework With Varying Balance Task Difficulty in Chronic/Subacute Stroke (Dissertation)
2. Planning for Long-Term Care Insurance – Multiple Assessment for People Who Need Long-Term Physical Rehabilitation
3. Community-Based Group Exercise for Older Adults with Cognitive Impairment
4. Vestibular Physical Therapy for Patients with Meniere's Disease
5. Cortical Excitability and Motor Function after EMGBFB-Assisted Exercise Training for Stroke Patients
6. Continuing Education Program for Physical Therapist In Long Term Care

Research Assistant: Life Quality and Health Promotion Lab, Dept. of Physical Therapy, NTU

1. A Continuing Cancer Service Model Emphasizing on Functional Restoration—Model for Breast Cancer

TEACHING & CLINICAL EXPERIENCES

- Teaching assistant: Dept. of Physical Therapy, University of Nevada, Las Vegas** *2016—present*
DPT 749 Applied Exercise Physiology
DPT 749L Applied Exercise Physiology Laboratory
DPT 791 Applied Research Statistics
DPT 750 Prosthetics and Orthotics
DPT 750L Prosthetics and Orthotics Laboratory
- Teaching assistant: Dept. of Physical Therapy, National Taiwan University** *2011—2013*
PT3010 Clinical Clerkship in Physical Therapy
PT2014, PT2015 Physical Agent Therapy and Practice
PT3011 Introduction to Motor Control and Learning
PT3029, PT3030 Neurological Physical Therapy and Practice
PT7077 Practical Statistics
- Instructor: Jenteh Junior College of Medicine, Nursing and Management** *2016*
Lecturer of Neurological Physical Therapy (lecture and practice)
- Instructor: Community College of Mucha Distrinct, Taipei City Government** *2016*
Instructor of group exercise class
- Invited Speaker: Shin Kong Wu Ho-Su Memorial Hospital (Medical Center)** *2015—2016*
Instructor of community health workshops
- Physical Therapist: National Taiwan University Hopsital (NTUH)(Medical Center) & Shu Tien Clinic** *2013—2016*
Neurological, bedside acute care, orthopedic, burn care and cardiopulmonary physical therapist

GRANTS & FUNDINGS

Total Funded 8,500

University of Nevada, Las Vegas, Department of Physical Therapy Differential Fees Scholarship. Spring 2017 (\$4,000).

University of Nevada, Las Vegas, Department of Physical Therapy Travel Grant
Travel Grant for American Physical Therapy Association Combined Section Meeting, San Antonio, Texas, USA. Spring 2017 (\$1,500)

University of Nevada, Las Vegas, Department of Physical Therapy Travel Grant
Travel Grant for Regenerative Rehabilitation Symposium, Pittsburgh, Pennsylvania, USA. Fall 2017 (\$800).

University of Nevada, Las Vegas Access Grant. 2017 Spring (\$1,000).

University of Nevada, Las Vegas Access Grant. 2017 Fall (\$1,000).

Graduate & Professional Student Association at the University of Nevada, Las Vegas (GPSA) Book Scholarship. Spring 2018 (\$200).

PROFESSIONAL MEMBERSHIPS

American Physical Therapy Association (APTA)	<i>2016—present</i>
Taiwan Physical Therapy Association	<i>2011—2016</i>

SERVICES

National Taiwan University Hospital	<i>2014—2016</i>
Volunteer physical therapy Regular serving medical consultation in suburban areas in Taiwan	

WCPT-AWP & ACPT Combined Conference	<i>2013</i>
Executive Assistant of World Confederation for Physical Therapy, Asia Western Pacific Region (WCPT-AWP) & Asia Confederation for Physical Therapy (ACPT) Combined Conference, Taichung, Taiwan	

National Taiwan University, Department of Physical Therapy	<i>2011—2013</i>
Chief editor of departmental newsletter	

Taiwan Physical Therapy Association	<i>2012, 2013</i>
Master of ceremonies in Taiwan Physical Therapy Association Academic Conference and Annual General Meeting	

Asia Physical Therapy Student Association (APTSA)	<i>2011—2012</i>
Minister of secretarial works, headquarters of Asia Physical Therapy Student Association	

CERTIFICATIONS

Research Certification, University of Nevada, Las Vegas
Attended workshops related to research such as grant writing, external funding, critical readings, and use of organizing article software and presented at my work at multiple conferences.

Collaborative Institutional Training Initiative (CITI Program), University of Nevada, Las Vegas

Geriatrics and Long Term Care Program, National Taiwan University

REFERENCES

- **Dr. Szu-Ping Lee**

Assistant Professor

University of Nevada, Las Vegas

Email: szu-ping.lee@unlv.edu

- **Dr. Ming-Hsia Hu**

Associate Professor

National Taiwan University and National Taiwan University Hospital

Email: mhh@ntu.edu.tw

- **Dr. Suh-Fang Jeng**

Associate Dean

Branch of Student Affairs, National Taiwan University College of Medicine

Professor

National Taiwan University

Chair

World Confederation for Physical Therapy, Asia Western Pacific Region

Email: jeng@ntu.edu.tw

- **Dr. Yu-Jen, Sam, Chen**

Assistant Professor

National Taiwan University

Email: yujensch@ntu.edu.tw

- **Dr. Jau-Yih Tsao**

Professor and Director of Dept. of Physical Therapy

National Taiwan University and National Taiwan University Hospital Physical Therapy Center

President

Taiwan Physical Therapy Association

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