

CURRICULUM VITAE

Pey-Shan Wen, Doctoral Candidate, MHS
Rehabilitation Science Doctoral Program
University of Florida Occupational Therapy Department
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FORMAL EDUCATION

- **Doctor of Philosophy in Rehabilitation Science**, Present, University of Florida, Gainesville, FL
Emphasis in Measurement
- **Master of Health Science**, December 2007, University of Florida, Gainesville, FL
Major: Occupational Therapy
- **Bachelor of Science**, June 1996, National Cheng-Kung University, Tainan, Taiwan
Major: Occupational Therapy

FUNDED RESEARCH

- **NIH R21 (P.I. Craig A. Velozo) – Project Coordinator**
Developing a Computerized Adapted Measure of Functional Cognition for TBI
Status: Funded 2004 -2007
- **VA Collaborative Center Grant (P.I. Craig A. Velozo) – Research Assistant**
Veteran-Center Outcome Using Qualitative and Quantitative Methods
Status: Funded 2007-2008
- **NIDRR (P.I. Craig A. Velozo) – Research Assistant**
Equiprecise Measurement for ICIDH-2 Classification of Activity: An Innovative Solution for Evaluating the Worldwide Incidence and Prevalence of Disability
Status: Funded 1999-2002

PUBLICATIONS

Donovan, N.J., Velozo, C.A., **Wen, P-S.**, Heaton, S.C., & Waid-Ebbs, K. Development of a Social Communication Construct for a Computerized Adaptive Measure of Functional Cognition for Traumatic Brain Injury *Aphasiology* (Submitted 2008 July).

Kimberg, C., Heaton, S.C., Velozo, C., Donovan, N.J., Waid-Ebbs, K., & **Wen, P-S.** Development of a measure of functional cognition for adult TBI. International Neuropsychological Society Conference, 02/2007 (abstract published).

REFEREED POSTER AND PLATFORM PRESENTATIONS

- **International**
Chiu Y-P., Fritz S.L., **Wen P-S.**, Davis S.B., Light K.E., Teitelbaum O., & Teitelbaum P. Development and reliability of Essential Movement-Component Evaluation: an alternative clinical method to analyze movement in people with stroke. International Stroke Conference, American Heart/Stroke Association, San Diego, CA, 02/2009 (Poster).
- Wen, P-S.**, Velozo C.A., Heaton, S.C., Waid-Ebbs, K., & Donovan, N.J. Comparison of patient, caregiver and health professional rating of a functional cognitive measure. International Conference on Objective Measurement, Bethesda, MD, 09/2008 (Platform).

Donovan, N.J., Velozo, C.A., **Wen, P-S.**, Heaton, S.C., & Waid-Ebbs, K. Item-Level Psychometric Properties of the Social Communication Construct Developed for a Computer Adaptive Measure of Functional Cognition for Traumatic Brain Injury, International Conference on Objective Measurement, Bethesda, MD 09/2008 (Platform).

Donovan, N.J., Velozo, C.A., **Wen, P-S.**, Heaton, S.C., & Waid-Ebbs, K. Development of a social communication construct for a computerized adaptive measure of functional cognition for traumatic brain injury, Clinical Aphasiology Conference, Jackson Hole, WY, 05/2008 (Platform).

- **National**

Chiu Y-P., Davis S.B., **Wen P-S.**, Fritz S.L., Light K.E., Teitelbaum O. & Teitelbaum P. Reliability of Essential Movement-Component Evaluation. American Physical Therapy Association Combined Section Meeting, Las Vegas, NV, 02/2009 (Poster).

Velozo, C.A., **Wen, P-S.**, Heaton, S.C., Waid-Ebbs, K., & Donovan, N.J., Psychometrics of a functional cognitive item bank for traumatic brain injury, Patient Reported Outcomes Measurement Information System, Bethesda, MD, 03/2008 (Poster).

Donovan, N.J., Velozo, C.A., Heaton, S.C., Coster, W., Waid-Ebbs, K., **Wen, P-S.**, Kimberg, C., & Piantieri, S. Developing a computer adaptive measure of functional cognition for TBI: conceptualizing functional cognition across the continuum of care. VA HSR&D National Conference, Washington D.C., 02/2007 (Platform).

Velozo, C.A., Heaton, S.C., Donovan, N.J., Piantieri, S., Kimberg, C., Waid-Ebbs, K., **Wen, P-S.**, & Coster, W. Using focus groups to develop questions for a computer adaptive measure of functional cognition for TBI. American Congress of Rehabilitation Medicine, Boston, MA 09/2006 (Poster).

Wen, P-S., Velozo, C.A., Light, K.E., Behrman, A.L., & Davis, S.B. Comparison of responsiveness of the Fugl-Meyer Assessment and the Wolf Motor Function Test for detecting clinical effectiveness. American Occupational Therapy Association's 86th Annual Conference, Charlotte, NC, 04/2006 (Poster).

Lehman, L.A., Velozo, C.A., Woodbury, M., Byers, K., Pomeranz, J., Piantieri, S., Wang, Y-C., Wang, J-H., & **Wen, P-S.** Use of "Recovery Maps" to Guide Occupational Therapy Upper Extremity Interventions. Poster presented at the American Occupational Therapy Association's 86th Annual Conference, Charlotte, NC, 04/2006.

Wang, J-H., Velozo, C.A., Barrett, B., Lehman, L.A., Piantieri, S.H., Wang, Y-C., & **Wen, P-S.** Developing an Individualized Physical Function Assessment Using Computerized Adaptive Testing. Poster presented at the American Occupational Therapy Association's 86th Annual Conference, Charlotte, NC, 04/2006.

Wang, Y-C., Velozo, C.A., Lehman, L.A., Piantieri, S., Pomeranz, J., Byers, K., Wang, J-H., & **Wen, P-S.** Differential Item Functioning on Different Diagnostic Groups to Decide Branch Prior to CAT. Poster presented at the American Occupational Therapy Association's 85th Annual Conference, Long Beach, CA, 05/2005.

Velozo, C.A., Johnson, A, Byers, K., Piantieri, S., Pomeranz, J., Lehman, L., Wang, Y., Wang, J., **Wen, P-S.**, & Gray, D. Development of a computerized adaptive self report functional measure. Poster presented at the Veterans Affairs Health Services Research and Development Conference, Washington, D.C., 02/2005.

Lehman, L.A., Velozo, C.A., Pomeranz, J.L., Johnson, A., Byers, K., Piantieri, S., Wang, Y-C., Wang, J-H., & **Wen, P-S.** Development of a measure of upper extremity function using modern test theory. American Congress of Rehabilitation Medicine-American Society of Neurorehabilitation Joint Conference, Ponte Vedra Beach, FL, 09/2004.

Pomeranz, J.L., Velozo, C.A., Johnson, A., Lehman, L.A., Byers, K., Piantieri, S., Wang, Y-C., Wang, J-H., & **Wen, P-S.** Developing a disability survey using cognitive interviewing. American Congress of

Rehabilitation Medicine-American Society of Neurorehabilitation Joint Conference, Ponte Vedra Beach, FL, 9/2004.

Veloza, C.A., Pomeranz, J.L., Johnson, A., Lehman, L.A., Byers, K., Piantieri, S., Wang, Y-C., Wang, J-H., & **Wen, P-S**. Development of a computerized measure of disability. American Congress of Rehabilitation Medicine-American Society of Neurorehabilitation Joint Conference, Ponte Vedra Beach, FL, 09/2004.

Wang, Y-C., Vellozo, C.A., Lehman, L.A., Piantieri, S., Pomeranz, J.L., Byers, K., Wang, J-H., & **Wen, P-S**. Using differential item functioning to determine unidimensionality of the ICF activity item bank: Assessing responses across different diagnostic groups. American Congress of Rehabilitation Medicine-American Society of Neurorehabilitation Joint Conference, Ponte Vedra Beach, FL, 09/2004.

- **Local and State**

Wen, P-S., Vellozo^{2,4}, C., Heaton³, S., Donovan⁴, N., Piantieri^{1,2}, S., Waid-Ebbs^{1,5}, K., Coster⁶, W. Using focus group to develop of a measure of functional cognition. The 20th Annual College of Public Health and Health Professions Research Day, University of Florida, Gainesville, FL, 03/2007 (Poster).

Wen, P-S., Vellozo, C.A., Light, K.E., Behrman, A.L., & Davis, S.B. Comparison of responsiveness of the Fugl-Meyer Assessment and the Wolf Motor Function Test. The 19th Annual College of Public Health and Health Professions Research Day, University of Florida, Gainesville, FL, 03/2006 (Poster).

Lehman, L.A., Vellozo, C.A., Woodbury, M., Byers, K., Pomeranz, J., Wang, Y-C., Wang, J-H., **Wen, P-S**. Use of "Recovery Maps" to Guide Upper Extremity Therapy Interventions. Presented at the 19th Annual College of Public Health and Health Professions Research Day University of Florida, Gainesville, FL, March 20th, 2006.

Lehman, L.A., Vellozo, C.A., Pomeranz, J., Byers, K., Piantieri, S., Wang, Y-C., Wang, J-H., **Wen, P-S**. Determining the Psychometrics of an Item Bank as a Precursor to the Development of a Self-Report Computerized Adaptive Measure of Upper Extremity Function. Poster presented at the University of Florida/Veteran's Administration Rehabilitation Research Day, Gainesville, FL, May 3, 2005.

Vellozo, C.A., Johnson, A., Byers, K., Piantieri, S., Pomeranz, J., Lehman, L., Wang, Y-C., Wang, J-H., **Wen, P-S.**, Gray, D. Development of a Computerized Adaptive Self-Report Functional Measure. Poster presented at the University of Florida/Veteran's Administration Rehabilitation Research Day, Gainesville, FL, May 3, 2005.

TEACHING EXPERIENCE

- **Guest Lecturer: Foundations of Occupational Therapy (OTH 5002), Summer 2008**
Three lectures: Community Based Practice, Culture Competence and Respecting Diversity, and Internationalization of Occupational Therapy
Department of Occupational Therapy, University of Florida, Gainesville, FL
- **Instructor: Introduction and Application of Rasch Measurement (RSD 6700), Fall 2007**
3-hour Graduate-level course, Professor Vellozo, C.A., PhD (Supervise Teaching)
Rehabilitation Science Doctoral Program, University of Florida, Gainesville, FL
- **Teaching Assistant: Applied Human Development (OTH 3200), Fall 2003**
3-hour Graduate-level course, Professor Foss, J.J., PhD
Department of Occupational Therapy, University of Florida, Gainesville, FL

PROFESSIONAL EXPERIENCE

- **University of Florida, Department of Occupational Therapy, Gainesville, FL, 2004 – 2008, Research Assistant**
Provide research support to Dr. Vellozo in research activities for a NIDRR-funded grant on creating a computer adaptive test for physical function based on the ICF Model

Coordinate a NIH-funded grant that focuses on developing a computer adaptive test of functional cognition for individuals with Traumatic Brain Injury

- **Rehabilitation Outcomes Research Center**, Gainesville, Fl, 2007-2008, **Research Assistant**
Provide research support to Dr. Velozo on the VA-funded project using qualitative and quantitative methods to create a measurement for veterans who undergo the locomotion training
- **University of Florida, Department of Occupational Therapy**, Gainesville, Fl, Fall 2003, **Teaching Assistant**
Teach Applied Human Development lab, provide guidance for lab assignment, lead lab discussions, grade students' papers and examinations
- **Ten-Chan Hospital, Department of Rehabilitation**, Taoyuan, Taiwan, 5/2000 – 2002, **Chief Occupational Therapist**
Set up SI room, design and fabricate splint, evaluate and develop treatment programs for patients with neurological disorders, developmental delay, and orthopedic problems
- **School Occupational Therapist**, Taipei, Taiwan, 01/1999 - 2002, **School OT**
Evaluate and develop programs for students with developmental delay, autism, CP, Down Syndrome, MR, SI dysfunction, ADHD; consult for IEP planning, environmental adaptation and use of assistive technology
- **Da-Lin Rehabilitation Clinic**, Taoyuan, Taiwan, 09/1998 – 2000, **Chief Occupational Therapist**
Expand SI room, design and fabricate splints, evaluate and develop programs for patients with neurological disorders, developmental delay, and orthopedic problems
- **Taipei Medical University Hospital, Department of Rehabilitation**, Taipei, Taiwan, 09/1996 – 1998, **Occupational Therapist**
Supervise OT students for their field-work practice, design and fabricate splints, evaluate and develop treatment programs for patients with neurological disorders, developmental delay, and orthopedic problems

CERTIFICATION

National Board for Certification of Occupational Therapists in Taiwan, 1998 to Present

PROFESSIONAL ORGANIZATIONS AND MEMBERSHIPS

Taiwan Occupational Therapist Union, 1998 – 2003
Taiwan Occupational Therapy Association, 1995 – 1997

HONORS AND AWARDS

University of Florida Graduate School Travel Fund, 09/2008

RESEARCH INTERESTS

Measurement in Health Science Research
Apply Rasch Analysis (Item Response Theory) in Measurement
Computer Adaptive Testing
Management of Data / Database Development
Apply Cognitive Interview and Focus Group in Test Development