

## CURRICULUM VITAE

**Sharon Wang, PhD, PT, OCS, COMT**

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### Education

- Ph.D. 1999. Physical Therapy, Texas Woman's University, Houston, TX  
M.S. 1990. Health Related Professions (Sports Physical Therapy). University of Pittsburgh, Pittsburgh, PA, 1990  
B.S. 1987. Physical Therapy. National Taiwan University, Taipei, Taiwan

### Dissertation

"The effect of the McConnell shoulder taping technique in people with anterior shoulder pain".  
December, 1999. Major Advisor: Sharon L. Olson. PT, PhD

### Professional Certification/Licensure

1. Physical Therapy, Texas license No. 1069193; Pennsylvania No. PT-006889-L
2. Board Certified Clinical Specialist in Orthopedic Physical Therapist (OCS), American Physical Therapy Association since 1999, recertified in 2009
3. Certified Manual Physical Therapist (COMT). North America Institute of Orthopedic Manual Therapy since January, 2008

### Employment

- 9/2006 - Present Texas Woman's University, School of Physical Therapy, Dallas, Texas.  
Associate Professor. Tenured. Teach orthopedic related courses for professional and post-professional programs.
- 9/2000 - 9/2006 Texas Woman's University, School of Physical Therapy, Dallas, Texas.  
Assistant Professor. Taught orthopedic related courses for professional and post-professional programs.
- 6/2006 - Present Select Physical Therapy (previous known as HealthSouth), Dallas TX  
PRN Physical Therapist. Treated patients with musculoskeletal disorders.
- 12/2005- 11/2007 Baylor Tom Landry Center, Dallas, Texas  
PRN Physical Therapist. Treated patients with musculoskeletal disorders.
- 12/2000- 12/2005 PRN Physical Therapist in the following clinics.  
Uptown Physical Therapy, Dallas, Texas.  
Concentra Medical Center, Dallas, Texas.
- 6/1995 - 8/2000 Concentra Medical Center, Houston, Texas  
Senior Physical Therapist and Clinical Instructor. Treated patients with musculoskeletal disorders and supervised physical therapists, physical therapy assistants, and physical therapy students. Provided in-services to staff physical therapists and physicians.
- 1/1995 - 6/1995 Stambush Physical Therapy, Houston, Texas  
PRN Physical Therapist. Treated patients with musculoskeletal disorders.
- 8/1994 - 12/1994 HealthSouth Rehabilitation Center, Sports Medicine Program, Columbia, Missouri  
Fellow. Treated athletes with musculoskeletal injuries on the field and in the clinic.

## **Employment (cont'd)**

- 2/1994 - 7/1994 Atkinson Manual Physical Therapy Clinic, Houston, Texas  
Staff Physical Therapist. Treated patients with musculoskeletal disorders primarily using manual therapy skills. Supervised physical therapy technicians. Coordinated aquatic therapy program.
- 10/1991 - 1/1994 St. Joseph Hospital, SportsCare, Department of Rehabilitation, Houston, Texas  
Staff Physical Therapist/Clinical Specialist. Treated patients with musculoskeletal disorders and injured athletes. Supervised physical therapists and physical therapy technicians.
- 1/1990 - 7/1991 University of Pittsburgh Medical Center, Presbyterian Hospital, Department of Physical Therapy, Pittsburgh, Pennsylvania  
Staff Physical Therapist and Clinical Instructor. Treated patients with various diagnoses. Supervised physical therapy students.
- 10/1990 - 7/1991 University of Pittsburgh Medical Center, Sports Medical Centers Pittsburgh, Pennsylvania  
Part-time physical therapist. Treated patients with musculoskeletal disorders and injured athletes.
- 8/1989 - 5/1990 University of Pittsburgh, Department of Physical Therapy, Pittsburgh, Pennsylvania  
Graduate Student Assistant. Assisted the course coordinator with therapeutic exercise and modality labs, practical exams, and grading of assignments. Treated patients with various diagnoses in university affiliated hospitals.
- 6/1987 - 7/1988 Chung-Shan Hospital, Department of Physical Therapy, Taipei, Taiwan  
Staff Physical Therapist & Acting director. Treated patients with orthopedic and neurological diagnoses.

## TEACHING

### **Courses Taught at TWU (Graduate)**

#### Professional DPT (Entry-level) Program (Spring 2008 – present)

##### Course Coordinator and Instructor

- PT6373 - Musculoskeletal Physical Therapy: UQ (Spring 2009)
- PT6363 - Musculoskeletal Physical Therapy: LQ (Fall 2008)
- PT6002 - Primary Care in Physical Therapy (Summer 2008)
- PT5233 - Research in Physical Therapy (Spring 2008)

#### Professional MS (Entry-level) Program (2000 Fall - 2007 Fall)

##### Course Coordinator and Instructor

- PT 5134 - Spinal Manual Therapy & Rehabilitation (Fall 2005-2007)
- PT 5123 - Extremity Manual Therapy & Rehabilitation (Spring 2001-2007)
- PT5233 - Research in physical Therapy (Summer 2007)
- PT 5033 - Medical Kinesiology (Fall 2000 - 2004)
- PT 5801 - Patient Care Seminar (Spring 2004)
- PT 5011 - Introduction to Physical Therapy Practice (Summer 2003-2006)

##### Co-teaching (and taught 30-50% of content)

- PT 5073 - PT Evaluation & Assessment - Goniometry (Fall 2000-2004)
- PT 5801 - Patient Care Seminar (Spring 2003)
- PT 5901 - Advanced Therapeutic exercise (Spring 2002)
- PT 5111 - Applied Orthopedic Management (Spring 2001-2002)

Professional MS (Entry-level) Program (2000 Fall - 2007 Fall) cont'd

Assist in teaching:

- PT 5015 - Human Gross Anatomy - Labs (Summer 2001-2002, 2005-2006)
- PT 5811 - Intro to PT skills (Summer 2002-2006)
- PT 5024 - Neuroscience - Edx labs (Fall 2000-2006)
- PT 5111 - Applied Orthopedic Management - Foot Orthotics (Spring 2001-2005)
- PT 5071 - Applied Physical Therapy Evaluation - Clinical Integration (Fall 2000, 2001)
- PT 5113 - Therapeutic Activity for the Orthopedic Patient (Spring 2001)

Post- Professional MS, tDPT and PhD Program:

Course Coordinator & Instructor:

- PT 5283 - Radiologic Review (Advanced Diagnostic Imaging) for Physical Therapist (Summer 2007 & 2008)

Orthopedic Manual Physical Therapy Certificate Courses:

- PT 5833 - Intermediate Evaluation & Mobilization: Upper Quarter (Spring 2006, Fall, 2008)
- PT 5823 - Intermediate Evaluation & Mobilization: Lower Quarter (Fall 2006, Spring 2009)
- PT 5903 - Intermediate Evaluation & Mobilization: Peripheral Joint, Thoracic Spine & Ribs (Summer 2006)
- PT 5832 & 5901 - Special topics: Differential Diagnosis (Fall 2005, Spring 2008)
- PT 5903 & 5901 - Spinal Manipulations for the Physical Therapists (Spring 2005)
- PT 6833 - Advanced Evaluation & Mobilization: Upper Quarter (Spring 2004 & 2007)
- PT 6823 - Advanced Evaluation & Mobilization: Lower Quarter (Fall 2004)

Co-teaching:

- PT 5273 - Functional PT Anatomy & Biomechanics: Lower Quadrant (Fall 2002)
- PT 5283 - Radiologic Review for Physical Therapist (Spring 2001)
- PT 5263 - Functional PT Anatomy & Biomechanics: Upper Quadrant (Fall 2001)

**Doctoral Dissertations** (2003 – present)

- Effectiveness of surface electromyographic biofeedback-triggered neuromuscular electrical stimulation on knee rehabilitation. Completed in May 2008. (Chair)
- Comparison of cervical spine manipulation and vibratory inhibition in patients with mechanical dysfunction of the cervical spine. Completed in May 2008. (Chair)

**Doctoral Professional Project** (2008 - present)

- Measurement of cervical multifidus muscle thickness at rest and during head lift using ultrasound imaging – A reliability study. In progress. (Chair)
- Comparison of dynamic postural stability between healthy controls and chronic low back pain patients. In progress. (Chair)

**Master's Theses** (2000 – 2007)

- Prescriptive validity of use of a classification system of sacroiliac joint mobility: a pilot study. Completed in May 2007. (Chair)
- Minimal detectable change in grip strength measurements in patients following carpal tunnel release. Completed in 2004. (Committee member)

## **Master's Theses (2000 – 2007) cont'd**

Reliability and minimal detectable changes of hand-held dynamometric measurements of shoulder muscle strength. Completed in 2003. (Chair)

## **Master's Professional Projects (2001-Present)**

Clinical measures of cervical and thoracic postures using flexicurve and inclinometer methods in individuals with and without cervical spine dysfunction: A reliability and validity study. In progress. (Chair)

Does lumbar posteroanterior mobilization reduce inhibition in hip abductor muscles? Completed in 2008. (Chair)

Outcome of deep neck flexors exercises in patients with neck pain - a pilot study . Completed in 2008. (Chair)

Comparison of EMG normalization methods for trapezius muscles during dynamic shoulder motions. Completed in 2008. (Chair)

Proprioception, posture, deep neck flexor muscle strength and endurance in patients with neck pain: validity and reliability of clinical measurements. Completed in 2007. (Chair)

Effectiveness of strength and conditioning program on performance of High School Ice –Hockey players. Completed in 2007. (Chair)

Effectiveness of high-velocity low amplitude manipulation in the treatment of a patient with sacroiliac pain –a single case design. Completed in 2007. (Chair)

Inter-rater reliability of the cervical biomechanical examination for patients with neck pain between experienced manual therapists and physical therapy students. Completed in 2006. (Chair)

Can physical therapy interventions improve muscle balance between the upper and lower trapezius in patients with neck-shoulder pain? Completed in 2006. (Chair)

\* Awarded Best Poster Presentation on the 2005 Research Day, TWU, School of Physical Therapy – Dallas. (refereed)

Reliability of cervical range of motion measurement using dual inclinometry and advanced performance meter. Completed in 2005. (Chair)

Can physical therapy interventions improve muscle balance between the upper and lower trapezius? an electromyographic study. Completed in 2005. (Chair)

Effectiveness of two stretching techniques for increasing Length in the pectoralis Minor". Completed in 2005. (Co-chair)

\* Awarded Best Platform Presentation on the 2005 Research Day, TWU, School of Physical Therapy - Dallas. (refereed)

Reliability of the hand-held dynamometric measurement of isometric knee extensor strength. Completed in 2005. (Chair)

Effectiveness of shoulder rehabilitative exercises in people with painful shoulder - a randomized controlled study. Completed in 2004. (Chair)

Does lower trapezius strength affect upper trapezius muscle recruitment during reaching activity? An electromyographic study. Completed in 2004. (Chair)

Effectiveness of two stretching techniques for increasing length in the pectoralis minor. Completed in 2004. (Co-chair)

Relationship of the menstrual cycle to anterior cruciate ligament laxity as determined by the KT-1000 arthrometer. Completed in 2004. (Committee Member)

A preliminary report on the effectiveness of shoulder rehabilitative exercises in people with painful shoulder. Completed in 2003. (Chair)

\*Awarded Best Platform Presentation on the 2003 Research Day, TWU, School of Physical therapy – Dallas (refereed).

### **Master's Professional Projects (2001-Present) cont'd**

Intra-tester and inter-tester reliability of shoulder muscle strength tests in normal adults. Completed in 2003. (Chair)

\*Awarded Best Poster Presentation on the 2003 Research Day, TWU, School of Physical therapy – Dallas (refereed).

The serratus anterior punch test to determine the serratus anterior strength in normal adults - a reliability study. Completed in 2002. (Chair)

The effect of a serratus anterior strengthening exercise program in people with abnormal winging of the scapula - a case report". Completed in 2002. (Chair)

### **Master's Professional Papers (2000-2001)**

A patient satisfaction survey of custom-made foot orthotics. Completed in 2001. (Committee member)

Does early initiation of physical therapy reduce rehabilitation time of persons with musculoskeletal injuries? Completed in 2001. (Committee member)

How to establish a research agenda for an outpatient orthopedic clinic: a case study. Completed in 2001. (Committee member)

Use of the rating perceived exertion to modulate exercise intensity in a group of cardiac transplant recipients: a proposal to assess the effect of the rating of perceived exertion on the ventilatory response index and heart rate . Completed in 2001. (Committee member)

Use of the ventilatory response index to modulate exercise intensity in a group of cardiac transplant recipients: a proposal to assess the effect of the ventilatory response index on the rating of perceived exertion and heart rate. Completed in 2001. (Committee member)

Age and sex related lumbar range of motion using the BROM II and dual inclinometer with asymptomatic and symptomatic subjects: manuscript preparation. Completed in 2001. (Committee member)

Reliability of the BROM II and dual inclinometer methods of measuring lumbar spine range of motion: preparation of an article for publication Completed in 2001. (Committee member)

## SCHOLARSHIP/CREATIVE ACHIEVEMENTS

### **Refereed Publications or Other Creative Achievements**

#### Journal Articles

Trudelle-Jackson E, Sarvaiya-Shah SA, **Wang SS.** (2008) Interrater Reliability of a Movement Impairment Classification System for Lumbar Spine Syndromes in Patients with Chronic Low Back Pain. *Journal of Orthopedic & Sports Physical Therapy.* 38(6):371-376.

#### Journal Articles (cont'd)

**Wang, S Sharon,** Trudelle-Jackson, Elaine J. (2006) Comparison of customized versus standard exercises in rehabilitation of shoulder disorders. *Clinical Rehabilitation.* 20:675-687.

**Wang, S. Sharon,** Normile Scott O, Lawshe Brandon T. (2006) Reliability and minimal detectable change determination for serratus anterior muscle strength and endurance. *Physiotherapy Theory and Practice.* 22(1):33-42

**Wang, S. Sharon,** Whitney Sue L, Burdett, Ray G, Janosky, Jane E. (1993) Lower extremity muscular flexibility in long distance runners. *Journal of Orthopedic & Sports Physical Therapy,* 17(2):102-107.

### Published Abstracts

- Boucher A, **Wang S**, Olson S, Trudelle-Jackson E. (2009) Effectiveness of surface electromyographic biofeedback triggered neuromuscular electrical stimulation on knee rehabilitation. *J Orthop Sports Phys Ther.* 39(1):A55.
- Clubb D, **Wang S**, Olson S, Trudelle-Jackson E, Lovelace-Chandler V, Michelle K. Comparison of cervical spine manipulation and vibratory inhibition in patients with dysfunction of the cervical spine. *J Orthop Sports Phys Ther.* 39(1):A82.
- Wang SS**, Fraise AL, Farmer ME, Waliany N. (2008) Proprioception, posture, deep neck flexor muscle strength and endurance in patients with neck pain: validity and reliability of clinical measurements. *J Orthop Sports Phys Ther.* 38(1):A62.
- Ratner J, **Wang S**, Trudelle-Jackson E. (2008) Outcomes of a high-velocity thrust manipulation on patients with sacroiliac joint hypomobility dysfunction. *J Orthop Sports Phys Ther.* 38(1):A61.
- Wang SS**, Barr W, Bierman D, Mercado D, Trudelle-Jackson E. (2007) Do lower trapezius muscle strengthening exercises influence electromyographic activity of the upper and lower trapezius in patients with non-specific neck pain. *J Orthop Sports Phys Ther,* 37 (1):A57.
- Wang SS**, Havel K, Russ L, Clubb D. (2007) Inter-rater reliability of the cervical biomechanical examination for patients with neck pain between experienced manual therapists and physical therapy students. *J Orthop Sports Phys Ther,* 37 (1):A57.
- Wang SS**, Trudelle-Jackson EJ, Tossey LL, Vo WP, Theriault TM. (2006) Effectiveness of two physical therapy interventions for increasing length in the pectoralis minor muscle. *J Orthop Sports Phys Ther,* 36(1):A11.
- Boucher AM, **Wang S**. (2006) Effectiveness of surface electromyographic biofeedback-triggered neuromuscular stimulation on knee rehabilitation: A single case design. *J Orthop Sports Phys Ther,* 36(1):A31.
- Wang SS**, Jenkins LM, Taylor VC, Trudelle-Jackson EJ. (2005) Can physical therapy interventions improve muscle imbalance between the upper and lower trapezius? An electromyographic study. *J Orthop Sports Phys Ther,* 35(1):A32.
- Wang SS**, Antony JA, English MA, Foster AB, Harcourt AB. (2005) Effectiveness of shoulder rehabilitative exercises on people with shoulder pain. *J Orthop Sports Phys Ther,* 35(1):A41.
- Wang SS**, Harcourt AB, Foster AB. (2004) Gravity-minimized shoulder muscle strength tests in people with shoulder disorders. *Phys Ther* [on-line], PO-RR-99-TH.
- Wang SS**, Kotlyar E, Mitterer GM. (2004) Reliability in hand-held dynamometric measurements of the middle and lower trapezius muscles in elderly people. *J Orthop Sports Phys Ther,* 34(1):A44.
- Wang SS**, DeLlomas JS, Mathews CD. (2003) Can serratus anterior muscle strengthening exercises correct abnormal scapular winging? A case study. *J Orthop Sports Phys Ther,* 33(2):A44.
- Wang SS**, Normile SO, Lawshe BT. (2003) A reliability study of new techniques to determine serratus anterior muscle strength and endurance. *J Orthop Sports Phys Ther,* 33(2):A44.

### Published Abstracts (cont'd)

- Wang SS**, Olson SL, Hanten WP, Etnyre BR. (2001) The effect of McConnell shoulder taping technique in people with anterior shoulder pain. *J Orthop Sports Phys Ther*, 31(1):A14.
- Wang SS**, Olson SL, Chen WY, Etnyre BR, Hanten WP. (1998) The effect of the McConnell shoulder taping technique on the infraspinatus muscle in normal subjects: A fine-wire electromyographic study. *Phys Ther*, 78(5)S53.
- Wang SS**, Chen WY, Olson SL, Etnyre BR, Valenzuela FT, Hanten WP. (1998) Correlation of the electromyographic recordings when using surface and fine-wire electrodes on the infraspinatus muscle in normal subjects. *Phys Ther*, 78(5)S39.
- Wang S**, Hughes K, Olson S, Hanten W. (1997) The effect of the McConnell shoulder taping technique in Normal subjects: An electromyographic study. *Phys Ther*, 77(5)S41.
- Hughes K, **Wang S**, Olson S, Hanten W. (1997) Reliability of integrated electromyography values of the upper and lower trapezium muscles in normals during glenohumeral elevation in the scapular plane. *Phys Ther*, 77(5)S18.

### **Presentations at Professional Meetings**

- Wang SS**, Fraise AL, Farmer ME, Waliany N. American Physical Therapy Association, Combined Section Meeting, Nashville, TN. (2/2008). Proprioception, posture, deep neck flexor muscle strength and endurance in patients with neck pain: validity and reliability of clinical measurements. Research poster presentation.
- Ratner J, **Wang S**, Trudelle-Jackson E. American Physical Therapy Association, Combined Section Meeting, Nashville, TN. (2/2008). Outcomes of a high-velocity thrust manipulation on patients with sacroiliac joint hypomobility dysfunction. Research poster presentation.
- Wang SS**, Havel K, Russ L, Clubb D. American Physical Therapy Association, Combined Section Meeting, Boston, MA . (2/2007). Inter-rater reliability of the cervical biomechanical examination for patients with neck pain between experienced manual therapists and physical therapy students. Research poster presentation.
- Wang SS**, Barr W, Bierman D, Mercado D, Trudelle-Jackson E. American Physical Therapy Association, Combined Section Meeting, Boston, MA . (2/2007). Do lower trapezius muscle strengthening exercises influence electromyographic activity of the upper and lower trapezius in patients with non-specific neck pain. Research poster presentation.
- Wang SS**, Havel K, Russ L, Clubb D. Texas Physical Therapy Association, Annual Conference, Fort Worth, TX. (10/2006). Inter-rater reliability of the cervical biomechanical examination for patients with neck pain between experienced manual therapists and physical therapy students (co-presenter). Research poster presentation.
- Wang SS**, Barr W, Bierman D, Mercado D, Trudelle-Jackson E. Texas Physical Therapy Association, Annual Conference, Fort Worth, TX. (10/2006) Do lower trapezius muscle strengthening exercises influence electromyographic activity of the upper and lower trapezius in patients with non-specific neck pain. Research poster presentation. (Co-presenter).
- Wang SS**, Trudelle-Jackson EJ, Tossey LL, Vo WP, Theriault TM. American Physical Therapy Association, Combined Section Meeting, San Diego, CA. (2/2006) Effectiveness of two physical therapy interventions for increasing length in the pectoralis minor muscle. Research platform presentation.
- Wang SS**, Tossey LL, Vo WP, Theriault TM, Trudelle-Jackson EJ. Texas Physical Therapy Association, Annual Conference, Woodlands, TX. (10/2005). Effectiveness of 2 Physical therapy interventions for increasing length in the pectoralis minor muscle. Research platform presentation.

### **Presentations at Professional Meetings (cont'd)**

- Boucher AM, **Wang S**. Texas Physical Therapy Association, Annual Conference, Woodlands, TX. (10/2005). Effectiveness of Surface electromyographic biofeedback-triggered neuromuscular stimulation on knee rehabilitation: an outcome study. Research poster presentation.
- Clubb D, **Wang SS**. Texas Physical Therapy Association, Annual Conference, Woodlands, TX. (10/2005). Reliability of cervical range of motion measurement using the dual bubble inclinometers and electronic digital inclinometer. Research poster presentation.
- Wang SS**, Jenkins LM, Taylor VC, Trudelle-Jackson EJ. American Physical Therapy Association, Combined Section Meeting, New Orleans, LA. (2/2005). Can physical therapy interventions improve muscle imbalance between the upper and lower trapezius? An electromyographic study. Research poster presentation.
- Wang SS**, Antony JA, English MA, Foster AB, Harcourt AB. American Physical Therapy Association, Combined Section Meeting, New Orleans, LA. (2/2005). Effectiveness of shoulder rehabilitative exercises on people with shoulder pain. Research poster presentation.
- Abbott J, **Wang SS**, Smith S. American Physical Therapy Association, Combined Section Meeting, New Orleans, LA. (2/2005). Minimal Detectable change in grip strength measures in women following carpal tunnel release. Research poster presentation.
- Wang SS**, Antony JA, English MA. Texas Physical Therapy Association, Annual Conference, Austin, TX. (10/2004). Effectiveness of shoulder rehabilitation exercises on people with shoulder pain. Research platform presentation.
- Wang SS**, Jenkins LM, Taylor VC, Trudelle-Jackson EJ. Texas Physical Therapy Association, Annual Conference, Austin, TX. (10/2004). Can physical therapy interventions improve muscle balance between the upper and lower trapezius? An electromyographic study. Research platform presentation.
- Abramov D, Beardon C, **Wang SS**. Texas Physical Therapy Association, Annual Conference, Austin, TX. (10/2004). Relationship of the menstrual cycle to anterior cruciate ligament laxity as tested by the KT-1000 arthrometer. Research platform presentation.
- Wang SS**, Foster C, Harcourt A. American Physical Therapy Association, Annual Conference & Expo, Chicago, IL. (6/2004). Gravity-minimized shoulder muscle strength tests in people with shoulder disorders. Research poster presentation.
- Wang SS**, Kotlyar E, Mitterer GM. American Physical Therapy Association, Combined Section Meeting, Nashville, TN. (2/2004). Reliability in hand-held dynamometric measurements of the middle and lower trapezius muscles in elderly people. Research poster presentation.
- Wang SS**, Foster C, Harcourt A. Texas Physical Therapy Association, Annual Conference, Austin, TX. (10/2003). A preliminary report of the effectiveness of shoulder rehabilitative exercises on people with shoulder pain. Research platform presentation.
- Wang SS**, Kotlyar E, Mitterer GM. Texas Physical Therapy Association, Annual Conference, Austin, TX. (10/2003). Test-retest reliability in hand-held dynamometric measurements of the shoulder in elderly people. Research Poster presentation.
- Wang SS**, DeLlomas JS, Mathews CD. American Physical Therapy Association, Combined Section Meeting, Tampa, FL. (2/2003). Can serratus Anterior muscle strengthening exercises correct abnormal scapular winging? A case study. Research poster presentation.
- Wang SS**, Normile SO, Lawshe BT. American Physical Therapy Association, Combined Section Meeting, Tampa, FL. (2/2003). A reliability study of new techniques to determine serratus anterior muscle strength and endurance. Research poster presentation.
- Wang SS**, DeLlomas JS, Mathews CD. Texas Physical Therapy Association, Annual Conference, Austin, TX. (10/2002). Effectiveness of a serratus anterior muscle strengthening exercise program in correcting abnormal scapula winging – a case study. Research poster presentation.
- Wang SS**, Normile SO, Lawshe BT. Texas Physical Therapy Association, Annual Conference, Austin, TX. (10/2002). Measurement of serratus anterior muscle strength – a reliability study. Research poster presentation.

### **Presentations at Professional Meetings (cont'd)**

- Wang SS**, Olson SL, Hanten WP, Etnyre BR. American Physical Therapy Association, Combined Section Meeting, San Antonio, TX. (2/2001). The effect of McConnell shoulder taping technique in people with anterior shoulder pain. Research platform presentation.
- Wang SS**, Olson SL, Hanten WP, Etnyre BR. Texas Physical Therapy Association, Annual Conference, Austin, TX. (10/2000). The effect of McConnell shoulder taping technique in people with anterior shoulder pain. Research Platform presentation. \*Awarded Outstanding Platform Presentation (referred).
- Wang SS**, Olson SL, Chen WY, Etnyre BR, Hanten WP. American Physical Therapy Association, Annual Conference & Expo, Washington DC. (6/1998). The effect of the McConnell shoulder taping technique on the infraspinatus muscle in normal subjects: A fine-wire electromyographic study. Research poster presentation.
- Wang SS**, Chen WY, Olson SL, Etnyre BR, Valenzuela FT, Hanten WP. American Physical Therapy Association, Annual Conference & Expo, Washington DC. (6/1998). Correlation of the electromyographic recordings when using surface and fine-wire electrodes on the infraspinatus muscle in normal subjects. Research poster presentation.
- Wang S**, Hughes K, Olson S, Hanten W. American Physical Therapy Association, Annual Conference & Expo, San Diego, CA (6/1997). The effect of the McConnell shoulder taping technique in Normal subjects: An electromyographic study. Research poster presentations.
- Hughes K, **Wang S**, Olson S, Hanten W. American Physical Therapy Association, Annual Conference & Expo, San Diego, CA (6/1997). Reliability of integrated electromyography values of the upper and lower trapezius muscles in normals during glenohumeral elevation in the scapular plane. Research poster presentations
- Wang SS**, Whitney SL, Burdett RG, Janosky, JE. American Physical Therapy Association, Combined Section Meeting, Orlando, FL. (2/1991). Lower extremity muscular flexibility in long distance runners. Research platform presentation.

### **Grants**

#### Funded

- Texas Physical Therapy Foundation for "Clinical measures of cervicothoracic Posture using flexicurve and inclinometer methods in individuals with and without cervical dysfunction: A reliability and validity study." Amount: \$2,000, awarded in 11/2008  
Role: Co-investigator
- TWU Research & Sponsored Programs, Small Grants Program for "Comparison of dynamic postural stability between healthy controls and chronic low back pain patient."  
Amount: \$600, awarded in 10/2008.  
Role: Principal investigator
- Texas Physical Therapy Foundation for "Effectiveness of surface electromyographic biofeedback -triggered neuromuscular electrical stimulation on knee rehabilitation"  
Amount: \$3,000, awarded in 1/2006.  
Role: Co-investigator.
- Texas Society of Allied Health Professions for "Effectiveness of surface electromyographic biofeedback -triggered neuromuscular electrical stimulation on knee rehabilitation."  
Amount: \$1,000. 10/2005.  
Role: Co-investigator.

### Funded (cont'd)

Texas Physical Therapy Education and Research Foundation for "Effectiveness of shoulder rehabilitative exercises in people with painful shoulders."

Amount: \$3,215, December, 2002 – December, 2003, extended to 12/2004.

Role: Principal investigator.

Texas Woman's University. Research Enhancement Program for "The effectiveness of shoulder rehabilitative exercises in elderly people with shoulder pain."

Amount: \$4,981, December, 2001 – August, 2002. Role: Principal investigator.

Texas Physical Therapy Education and Research Foundation for "The effect of McConnell shoulder taping technique in people with anterior shoulder pain."

Amount: \$2,017, June, 1998 – June, 1999. Role: Principal investigator.

### Not Funded

American Academy Orthopedic Manual Physical Therapy for "Comparison of cervical spine manipulation

and vibratory inhibition in patients with mechanical dysfunction of the cervical spine."

Submitted for \$4,950. July, 2005. Role: Co-investigator.

American Physical Therapy Association, Orthopedic Section Research Grant for "Effectiveness of biofeedback, functional electrical stimulation and the combination on people with anterior knee pain." Submitted for \$15,000. November, 2004. Role: Co-investigator.

Texas Woman's University. Chancellor's Research Fellows Program.

Submitted, \$6,000 for Protégés and \$5,000 for Mentor. September, 2001.

### **Scholarly Work in Progress**

#### Articles Submitted

Boucher A, Wang S, Olson S, Trudell-Jackson E. Effectiveness of Surface Electromyographic Biofeedback-triggered Neuromuscular Electrical Stimulation on Knee Rehabilitation. Submitted in 8/2008 & Re-submitted in 12/2008 to the *North American Journal of Sports Physical Therapy*. In 2<sup>nd</sup> review.

Wang SS, Meadows J. Immediate and Carry-over Effects of C5-6 Joint Mobilization on Shoulder External Rotator Muscle Strength. Submitted to the *Journal of Manipulative and Physiological Therapeutics* in 3/2009. Currently in revision.

#### Grants Submitted

Texas Woman's University. Research Enhancement Program for "Ultrasonographic Measurements of Cervical Multifidus Muscle Contraction in Individuals With and Without Neck Pain: A Reliability and Comparison Study". Submitted in 4/2009 for \$7,960. Role: Principal Investigator.

#### Research projects in progress

- Measurement of supraspinatus muscle contraction with ultrasound imaging and electromyography in healthy adults. IRB approval in 12/2008. In data collection.

- Measurement of cervical multifidus muscle thickness at rest and during head-lift using ultrasound imaging – A reliability study. IRB approval in 12/2008. In data collection.

### Research projects in progress (cont'd)

- Comparison of dynamic postural stability between healthy controls and chronic low back pain patients. IRB approval in 11/2008. In data collection

## PROFESSIONAL SERVICE

### **Service Activities for the University, College, Component**

#### University Committees

- Institutional Review Board (IRB) Committee – Dallas: 9/2002 -present
- Research Support Committee: 9/2007 – Present
- University Library Liaison for School of Physical Therapy at Presbyterian Campus – Dallas: 1/2002-8/2004

#### College of Health Science Committee

- Future Directions Committee: 8/2004 -6/2005

#### School of Physical Therapy Committees

- Post-professional Program Curriculum Committee: 8/2004 - Present
- Scholarship Committee: 9/2001 – Present & Chair: 8/2006 - Present
- Promotion and Tenure Committee: 8/2007 – Present
- Student Committee: 9/2001 - 8/2003, chair 2002-2003  
Coordinated and supervised Dallas student activities. Attended SPTA meeting and advise student activity on and off campus.

#### Other School-related Services

Orthopedic Manual Physical Therapy (OMPT) Certificate Program: 1/2005 – Present; Coordinator  
Budget sub-committee (Dallas campus), 9/2008 – present, chair

### **Professional Service**

- Texas Physical Therapy Association, Research Committee: 10/2002- Present
- Texas Physical Therapy Foundation, Board Member & Trustee/Grant Reviewer: 10/2005 – Present  
Research Chair: 10/2007 – Present
- Texas Physical Therapy Association, Continued Education Reviewer: 1998 – Present
- External reviews for Peer-reviewed Journals:
  1. Journal of Development & Rehabilitation, External Reviewer: 7/2005 – Present
  2. Disability and Rehabilitation: 2/2007 - Present
  3. Clinical Rehabilitation: 6/2007 - Present

## **Memberships in Professional Societies**

- American Physical Therapy Association: 1991 - Present  
Orthopedic section member since 1991
- Texas Physical Therapy Association (1991 – Present)
- American Academy of Orthopaedic Manual Physical Therapy: 2004 - Present
- North America Institute of Orthopaedic Manual Therapy, Fellow member: 1/2006 - Present

## **Other Community Outreach Achievements**

Pro-Bono Physical Therapy Services for local community.

## PROFESSIONAL DEVELOPMENT

### **Significant Professional Development Activities**

Manual Therapy Certificate and Clinical Fellowship Program

- Clinical Fellowship program with the North American Institute of Orthopaedic Manual Therapy (NAIOMT), 1/06 - 2/09
- A member of American Academy of Orthopaedic Manual Physical Therapy (AAOMPT)
- Certified Manual Physical Therapist (CMPT) with NAIOMT in June 2007
- Certified Orthopedic Manipulative Therapist (COMT) with NAIOMT in January 2008
- Conduct manual therapy study groups (1 every 2-3 months) for local manual physical therapists
- Attended the NAIOMT Annual Conference 2006 & 2008

Continuing Education Courses:

- 2-3 CEU courses related to orthopedic physical Therapy practice each year.