

## TEXAS STATE VITA

**I. ACADEMIC/PROFESSIONAL BACKGROUND****A. Name:** Robert S. Wainner PT, Ph.D., ECS, OCS, FAAOMPT **Title:** Associate Professor**B. Educational Background**

Degree	Year	University	Major	Thesis/Dissertation
PhD	2000	University of Pittsburgh	Rehabilitation Science	Wainner, RS: Cervical Radiculopathy and Carpal Tunnel Syndrome: A Prospective Determination of the Reliability, Diagnostic Accuracy, and Predictive Validity of Commonly used Clinical Examination Measures and Patients Self-Report Instruments [Dissertation]. Pittsburgh, Pa: University of Pittsburgh; 2000
MS	1992	University of Kentucky	Physical Therapy	Wainner, RS. Muscular Strength Gains and Sensory Perception Changes: A Comparison of NMES and Combined NMES/Magnetic Stimulation [Master's Thesis]. Lexington, Ky: University of Kentucky; 1992
BS	1985	University of Texas Medical Branch Galveston	Physical Therapy	

**C. University Experience**

Position	University	Dates
Associate Professor; Clinical Associate Professor	Texas State University	9/2006 – Present; 9/2005-8/2006
Adjunct Faculty	U.S. Army-Baylor Doctoral Program in Physical Therapy. Army Medical Department Center & School, Fort Sam Houston, TX 78234	10/2005-Present
Professor	Rocky Mountain University, Provo UT t-DPT and DScPT Programs	2004-Present
Associate Professor and Director of Research	U.S. Army-Baylor Doctoral Program in Physical Therapy. Army Medical Department Center & School, Fort Sam Houston, TX 78234	6/2001-10/2005
Assistant Professor and ACCE	U.S. Army-Baylor Doctoral Program in Physical Therapy. Army Medical Department Center & School, Fort Sam Houston, TX 78234	7/1995-7/1997
Adjunct Faculty	Regis University	2003-Present

**D. Relevant Professional Experience**

Position	Entity	Dates
Co-owner, Vice President and Director of Clinical Excellence	Texas Physical Therapy Specialists. 1324 Common Street, Suite 207. New Braunfels, TX 78130	2004-Present
Co-owner, Partner and Residency Director	Evidence in Motion 13000 Equity Drive Louisville, KY 40223	2004-Present
Adjunct Staff	Brooke Army Medical Center, Fort Sam Houston, TX 78234	2001-2005
Research and Practice Coordinator	Physical Medicine Flight, Physical Therapy Element. Wilford Hall USAF Medical Center (WHMC), Lackland AFB (LAFB), San Antonio, TX. 78236	2001
Physical Therapy Clinical Coordinator of Clinical Education	Malcolm Grow Medical Center, Andrews AFB, MD 20331	1992-1995
Chief, Physical Therapy Services	42d Strategic Hospital, Loring AFB, ME	1987-1990
Staff Therapist	Wilford Hall USAF Medical Center (WHMC), Lackland AFB (LAFB), San Antonio, TX. 78236	1985-1987

**II. TEACHING****A. Teaching Honors and Awards**

Outstanding Clinical Faculty Award, Southwest Texas State University Physical Therapy Program (1996)

**B. Courses Taught**

Evidence in Motion Residency & Fellowship Program

EIM R101 EBP Basic Course

EIM R102 Management of Lower Extremity Disorders

EIM R103 Management of Lumbopelvic Disorders

EIM R104 Management of Cervicothoracic Disorders

EIM R105 Management of Upper Extremity Disorders

EIM R106 Postoperative Procedures and Physical Therapy Management

Texas State University

*Doctoral Program*

DPT 7115 – Evidence-based Practice (instructor of record)

DPT 7539 - Musculoskeletal: Spine

DPT 7233 – Body Systems II - Radiology

DPT 7549 – Musculoskeletal: Lower Extremity

DPT 7559 - Musculoskeletal: Upper Extremity

DPT 7467 – Research in Physical Therapy: analysis of practice

*Masters Program*

PT 5241 – Research I, Evidence-based Practice module

PT 5640 (6 cr) – Upper Extremity: Examination and Intervention

PT 5630 (6 cr)– Lower Extremity: Examination and Intervention

PT 5620 (6 cr)– Spine Examination and Intervention.

US Army-Baylor Doctoral Program in Physical Therapy (2001-2005)

Research Methods I (1cr), first semester

Evidence-based Practice I-IV (1 cr each, total= 4), first – fourth semesters

Diagnostic Procedures (1 cr each, total=2), first and second semesters

Statistics (3cr), first semester

Clinical Medicine II (1cr), second semester

Pharmacology for Physical Therapists (1cr), second semester

Research Methods II (1cr), first, second, and third semesters

Spine Region (3cr), secondary instructor

Hip Region, Elbow/wrist/hand Region- manual therapy instruction block only  
therapy instruction

US Army-Baylor Graduate Program in Physical Therapy (1995-1997)

Wound Care (1cr), first semester

PT Fundamentals (1cr), first semester

Upper member (3cr), second semester

Spine (3cr), second semester

Amputee (1cr), Third semester

Other teaching and managerial responsibilities: Academic Coordinator of Clinical  
Education (ACCE)

**C. Graduate Theses/Dissertations or Exit Committees (if supervisor, please indicate)**

Texas State University Physical Therapy Program (Class 2009)

1. Analysis of Practice: Lumbar Spine (Principle Investigator (PI), Chair)

2. Analysis of Practice: Cervical Spine (Principle Investigator (PI), Chair)

Texas State University Physical Therapy Program (Class 2008)

3. The immediate effects of scapular stretching on cervical ROM in normal subjects: A  
pilot study. (Principal Investigator (PI), Chair)

Texas State University Physical Therapy Program (Class 2007)

4. A comparison of thoracic manipulation, scapular muscle stretching stretching, and  
combined manipulation and stretching for immediate effects on pain and range-of-  
motion in patients with mechanical neck disorders (Principal Investigator (PI), Chair)

Rocky Mountain University

5. Reference Values of the Ulnar Sensory Nerve (DScPT doctoral committee member.  
Tom Reudiger)

US Army-Baylor Doctoral Program Class 2007 (DPT)

3. The Immediate Effects of Thoracic Spine and Rib Manipulation on Patients with  
Primary Complaints of Shoulder Impingement. (Associate Investigator (AI), Faculty  
member)

4. Comparison of two lumbo-pelvic manipulations for the treatment of low back pain as  
measured by patient self-reports of pain and function: a randomized clinical trial.  
(Associate Investigator (AI), Faculty member)

5. Long-Term Effectiveness of the Army's Running Shoe Program: An Analysis of  
Soldiers' Knowledge and Shoe Selection. Proposed Research

6. Long-Term Effectiveness of the Army's Running Shoe Program: A Biomechanical  
Analysis of the Effectiveness of Different Styles of Running Shoes

US Army-Baylor Doctoral Program Class 2006 (DPT)

7. Development of a clinical prediction rule to identify patients with knee osteoarthritis who respond favorably to hip mobilization (Principal Investigator (PI), Chair)
8. Preferential Activation of the Transversus Abdominus Muscle during Core Lumbar Stabilization Exercises (Associate Investigator (AI), Faculty member)
9. Fluoroscopic Assessment of Glenohumeral Kinematics. A comparison of dynamic versus static motion
10. Identification of patients with patellofemoral pain syndrome who respond best to manipulation of the sacroiliac joint (AI, Faculty member).

US Army-Baylor Program Class 2004 (MPT)

11. Reliability and normative values of deep neck flexor muscle endurance measurements in USAF high-performance aircraft pilots (PI, Chair)
12. Utilization of real-time ultrasound as an adjunct to lumbar stabilization training
13. Comparative effects of shoulder muscle fatigue on glenohumeral migration in patients diagnosed with impingement syndrome. An in vivo study using cineradiographic assessment
14. Effect of Spinal manipulation on pelvic crest alignment: functional status and pain in subjects with low-back pain (AI, Faculty member)

US Army-Baylor Program Class 2003 (MPT)

15. The relationship between foot type, navicular drop test, and plantar pressure distribution patterns during walking (AI, faculty member)
16. Identification of patients with patellofemoral pain syndrome who respond best to patellar taping (AI, faculty member)
17. Comparative effects of shoulder muscle fatigue on glenohumeral migration in normal subjects: an in vivo study using cineradiographic assessment
18. A Randomized Controlled Trial of a Leg Orthosis versus Traditional Treatment in Soldiers with Shin Splints
19. Reliability of provocative hip tests and a functional squat test in patients with knee osteoarthritis: incidence of positive test findings and short-term response to hip mobilization (PI, Faculty Chair)

US Army-Baylor Program Class 2002 (MPT)

20. Reliability of a measurement of neck flexor muscle endurance (AI, Faculty member)
21. Effect of single versus dual back strap carry on spinal posture and muscle activity
22. EMG activity of the abdominals on static and labile surfaces in subjects with and without low back pain
23. Reliability and validity of the palpation meter for leg length discrepancy
24. Normative values by age of thoracic spine range-of-motion.

**D. Courses Prepared and Curriculum Development**

See item B above for courses prepared, develop and taught,

**E. Funded External Teaching Grants and Contracts**

University of Kentucky. PT 902 Evidence Based Practice for Physical Therapists  
(Transitional Doctorate of Physical Therapy Program)

Rocky Mountain University. OS 719 Manipulation in the Management of Spinal Disorders  
(3 credit hours)

University of Oklahoma. Spinal Manipulation: an Update for Physical Therapists, Osteopathic Physicians, and Medical Doctors (40 contact hours)

**F. Submitted, but not Funded, External Teaching Grants and Contracts**

**G. Funded Internal Teaching Grants and Contracts**

**H. Submitted, but not Funded, Internal Teaching Grants and Contracts**

**I. Other**

**III. SCHOLARLY/CREATIVE**

**A. Works in Print**

**1. Books (if not refereed, please indicate)**

**a. Scholarly Monographs**

Co-author: Manipulation Education Manual for Physical Therapist Professional Degree Programs. APTA Manipulation Education Committee Task Force. 2004

**b. Textbooks**

**c. Edited Books**

**d. Chapters in Books**

**e. Creative Books**

Whitman J, Flynn T, Wainner RS, Magel J. Orthopaedic Manual Physical Therapy Management of the Lumbar Spine, Pelvis, and Hip Region. 2002; Manipulations, Inc. ISBN 0-9714792-2-4 (an evidence-based electronic text in multimedia CD-ROM format)

Wainner RS, Flynn T, Whitman J. Spinal & Extremity Manipulation: The Basic Skill Set for Physical Therapists. 2001; Manipulations, Inc. ISBN: 0-9714792-1-6 (an evidence-based electronic text in multimedia CD-ROM format)

**2. Articles**

**a. Refereed Journal Articles**

*2010*

1. Boyles, Walker, Young, Wainner RS. The addition of cervical thrust manipulations to a manual physical therapy approach in patients being treated for mechanical neck pain: a secondary analysis. J Othop Sports Phys Ther. 2010;40(3):133-140.doi:10.2519/jospt.2010.3106.

*2009*

2. Sutlive TG, Mabry LM, Easterling EJ, Durbin JD, Hanson SL, Wainner RS, Childs JD. Comparison of Short-Term Response to Two Spinal Manipulation Techniques for Patients with Low Back Pain in a Military Beneficiary Population. *Mil Med.* 2009;174(7):750-756.
3. . Boyles RE, Ritland BM, Miracle BM, Barclay D, Faul M, Moore J, Koppenhaver S, Wainner RS. The short-term effects of thoracic spine thrust manipulation on patients with shoulder impingement syndrome. *Man Ther.* 2009;14(4):375-380

2008

4. Walker MJ, Boyles R, Young B, Strunce J, Garber M, Whitman J, Deyle G, Wainner, RS. The Effectiveness of Manual Physical Therapy and Exercise for Mechanical Neck Pain: A Randomized Clinical Trial *Spine.* 2008;33:2371-2378.
5. Young B, Gill M, Wainner RS, Flynn T. Thoracic Costotransverse Joint Pain Patterns: A Study in Normal Volunteers. *BMC Online. BMC Musculoskeletal Disorders* 2008, 9:140.
6. Childs, JD Cleland J Elliott JM Teyhen DS Wainner RS Whitman JM Sopky BJ Godges JJ Flynn TW. Practice Guidelines: Neck Pain. *J Orthop Sports Phys Ther.* 2008;38(9):A1-A34.
7. Iverson CA, Sutlive T, Crowell S, Morrell R, Perkins M, Moore J, Wainner RS. Lumbopelvic manipulation for the treatment of patients with patellofemoral pain syndrome: development of a clinical prediction rule. *J Orthop Sports Phys Ther.* 2008;38:297-312.

2007

8. Currier LL Froelich PJ Carow SD MacAndrew RK Cliborne AV Boyles R, Mansfield L Wainner RS. Development of a clinical prediction rule to identify patients with knee pain and clinical evidence of knee osteoarthritis who demonstrate a favorable short-term response to hip mobilization. *Phys Ther.* 2007;87:
9. Wainner RS Whitman JW. Editorial: First line interventions for hip pain: is it drugs, surgery, or us? *J Orthop Sports Phys Ther.* 2007;37:511-513.
10. Wainner RS, Whitman JW, Flynn TW, Cleland J. Editorial: Regional Interdependence: A musculoskeletal examination model whose time has come. *J Orthop Sports Phys Ther.* 2007;37:658-660.

2006

11. Whitman JM, Flynn TW, Childs JD, Wainner RS, Gill H, Ryder MG, Garber M, Bennett A, Fritz JM. A Comparison Between Two Physical Therapy Treatment Programs for Patients with Lumbar Spinal Stenosis: A Randomized Clinical Trial. *Spine.* 2006;31:2541-2549
12. Flynn T, Wainner RS, Fritz JM. Spinal Manipulation in Physical Therapist Professional Degree Education: A Model for Teaching and Integration Into Clinical Practice. *J Orthop Sports Phys Ther.* 2006;36:577-587
13. Leshner JD, Sutlive TG, Miller GA, Chine NJ, Garber M, Wainner RS. Development of a Clinical Prediction Rule for the Classifying of Patients with Patellofemoral Pain Syndrome Who Respond Best to Patellar Taping. *J Orthop Sports Phys Ther.* 2006;26:854-866
14. Flynn T, Wainner RS, Whitman J, Childs D. The immediate effect of thoracic spine manipulation in patients with neck pain. *Canadian Orthopaedic Division Review.* 2006; Sept/Oct: 23-25 ([www.orthodiv.org](http://www.orthodiv.org)).. 2007;Mar/Apr:31-36
15. Childs JD, Benz LN, Wainner RS. Translating clinical research to clinical practice: How to hit a moving target or "Evidence in Motion". *Canadian Orthopaedic Division Review.* 2006; Sept/Oct: 23-25 ([www.orthodiv.org](http://www.orthodiv.org)).

2005

16. Harris K, Heer D, Roy T, Santos D, Pritchard A, Whitman JM, Wainner RS. Measurement characteristics of a test of deep neck flexor muscle endurance in individuals with and without neck pain. *Phys Ther.* 2004;85:1349-1355.
17. Wainner RS, Fritz JM, Irrgang JJ, Delitto T, Allison SC, Boninger M. Development of a Clinical Prediction rule for the Diagnosis of Carpal Tunnel Syndrome. *Arch Phys Med Rehabil.* 2005;86:609-618.
18. Childs JD, Flynn T, Fritz JM, Piva S, Whitman J, Wainner RS, Greenman P. "Screening for risks associated with cervical spine mobilization/manipulation: A guide for clinical decision-making" *J Orthop Sports Phys Ther.* 2005;35:300-306

2004

19. Winters MV, Trost JS, Blake CG, Marcello TB, Lowe LM, Garber B, Wainner RS. The effectiveness of passive vs. active stretching of hip flexor muscles in subjects with limited hip extension. *Phys Ther.* 2004;84:800-807.
20. Cliborne A, Wainner RS, Rhon CI, Judd CD, Fee TT, Whitman JM, Matekel RL, Lowe LM. Reliability of provocative hip tests and a functional squat test in patients with knee osteoarthritis: incidence of positive test findings and short-term response to hip mobilization. *J Orthop Sports Phys Ther.* 2004;34(11):676-685.
21. Fritz JM, Whitman J, Flynn TW, Wainner RS, Childs JD. Clinical Factors Related to the Failure of Individuals with Low Back Pain to Improve with Spinal Manipulation. *Phys Ther.* 2004;84:173-190.

2003

22. Wainner RS. Guest Editorial: Reliability of the clinical examination: how close is "close enough"? *J Orthop Sports Phys Ther.* 2003;33:488-491
23. Wainner RS, Fritz JM, Boninger M, Irrgang JJ, Delitto T, Allison SC. Reliability and Diagnostic Accuracy of the Clinical Examination and Patient Self-Report Measures for Cervical Radiculopathy. *Spine.* 2003;28(1):52-62
24. Flynn T, Fritz J, Wainner R, Whitman J. The Audible Pop is not Necessary for Successful Spinal High Velocity Thrust Manipulation in Individuals with Low Back Pain. *Archives of Physical Medicine & Rehabilitation,* 84(7): 1057-1060, 2003

2002

25. Flynn TW, Fritz J, Wainner RS, Whitman J. Letter to the Editor- Are Physical Agents the Same as Rehabilitation? *Phys Ther.* 82:286-287, 2002
26. Flynn T, Fritz J, Whitman J, Wainner RS, Magel J, Rendeiro J, Butler B, Garber M, Allison S. A Clinical prediction rule for classifying patients with low back pain who demonstrate short-term improvement with spinal manipulation. *Spine.* 2002; 27: 2835-2843

2001

27. Fritz JM, Wainner RS. Examining diagnostic tests: an evidence-based perspective. *Phys Ther.* 2001;81:1546-1564.
28. Fitzgerald GK, Lephart SM, Hwang JH, Wainner RS. Hop tests as predictors of dynamic knee stability. *J Orthop Sports Phys Ther.* 2001;31:588-597

2000

29. Wainner RS, Gill HM. Diagnosis and non-operative management of cervical radiculopathy. *J Orthop Sports Phys Ther.* 2000;30:728-744

30. Wainner RS, Boninger ML, Balu G, Burdett R, Helkowski W. The Durkan gauge and Carpal Compression Test: instrument validity and diagnostic test properties in a case series of 57 consecutively tested hands. *J Orthop Sports Phys Ther.* 2000;29:676-682
31. Fritz JM, Wainner RS, Hicks, GE. The use of nonorganic signs and symptoms as a screening tool for chronicity in patients with acute low back pain. *Spine.* 2000;25:1925-1931

1999

32. Wainner RS, Greathouse, DG. Case Report: Entrapment of the ulnar nerve deep motor branch with sensory and hypothenar sparing. *Journal of Clinical Electrophysiology.* 1999;11:7-14

1998

33. Wainner RS, Hasz MJ. Clinical commentary: management of acute calcific tendinitis of the shoulder *J Orthop Sports Phys Ther.* 1998;27:231-237
34. Irrgang J, Snyder-Mackler L, Wainner RS, Fu FH, Harner CD. Development of a patient-reported measure of function of the knee. *J Bone J Surg.* 1998;80A:1132-1145
35. Terry G, Morgan S, Murphy M, Baldwin T, Wainner RS, Clayton R, Underwood F. Effect of stimulator electrode placement on F-wave latency measurements and the use of height and arm length as F-wave latency predictors. *Electromyography and Clinical Neurophysiology* 1998;38:411-418

#### **b. Non-refereed Articles**

1. Wainner RS, Childs JD, Benz LN. Practice Building Blocks for Sustained Growth and High Performance: 2009 PPS Practice Award Winner Shares Winning Strategies. *Impact* 2010 April Issue pp 40 - 41
2. Benz L, Wainner RS. A Brand You World. *Impact* 2009; April issue pp 12-13.
3. Wainner RS, Whitman JM. Internet-based Learning is Effective for Improving Physical Therapy Practice. *Impact* 2009; May issue pp 18-19
4. Leal M, Dennison B, Wainner RS. Building Evidence-based Physical Therapy Systems. *Impact* 2008; May: 30-31
5. Wainner RS, Benz LN, Flynn TW, Childs JD. How to Leverage Technology for Clinical Success: are you Pulling or Pushing? *Impact* 2007; August (Part I):32-34.
6. Wainner RS, Benz LN, Flynn TW, Childs JD. How to Leverage Technology for Clinical Success: are you Pulling or Pushing? *Impact* 2007; September (Part II):32-34
7. Wainner RS, Childs JD, Benz LN, Flynn TW. Evidence-based practice: passing boomer fad or health care reality (Part II). *Impact.* 2006;3(11):7-9.
8. Wainner RS, Childs JD, Benz LN, Flynn TW. Evidence-based practice: passing boomer fad or health care reality (Part I). *Impact.* 2006;3(10). 12-13.
9. Wainner RS. Research Pearl: The clinical exam: our bread-n-butter. *Articulations.* April 2000; 10-11.
10. Wainner RS. Clinical Pearl: The Squat Test. *Articulations.* April 2001

#### **3. Abstracts**

1. Sutlive TG, Mabry LM, Easterling EJ, Durbin JD, Hanson SL, Wainner RS, Childs JD. Comparison of short-term response to 2 spinal manipulation techniques for patients with low back pain. *APTA CSM Platform, J Orthop Sports Phys Ther.* 2007;37(1):OPL4.
2. Rendeiro DG, Majkowski GR, Lee IE, Gill NW, Jensen DA, Deyle GD, Wainner RS, Overbaugh R. The effectiveness of translational manipulation under interscalene



- block for treatment of adhesive capsulitis of the shoulder: a prospective clinical trial. APTA CSM Platform, *J Orthop Sports Phys Ther.* 2007;37(1): OPL35.
3. Currier L, Froelich P, Carow S, Kane A, Boyles R, Cliborne A, Mansfield L, Wainner RS. Development of a clinical prediction rule to identify patients with knee osteoarthritis who respond favorably to hip mobilization. Platform, Proceedings of the TPTA Annual Conference 2005
  4. Iverson C, Crowell M, Morrell P, Perkins M, Moore J, Garber M, Sutlive T, Wainner RS. Identification of patients with patellofemoral pain syndrome who respond best to manipulation of the sacroiliac joint. Platform, Proceedings of the TPTA Annual Conference 2005
  5. Teyhen DS; Rieger JL; Westrick RB; Miller AC; Molloy JM; Wainner RS; Childs JD. Ultrasound imaging of the deep abdominal muscles during core stabilization exercises. Platform, Proceedings of the TPTA Annual Conference 2005
  6. Teyhen D, Rieger J, Westrick R, Miller A, Molloy J, Wainner RS, Childs JD. Ultrasound imaging of the deep abdominal muscles during core stabilization exercises. *J Orthop Sports Phys Ther.* 2006; 36(1):A16
  7. Fritz JM, Childs JD, Flynn TW, Whitman JM, Wainner RS. Segmental mobility testing in the classification of low back pain. *J Orthop Sports Phys Ther.* 2004; 34(1):A-7. (Platform CSM)
  8. Whitman JM, Fritz JM, Childs JD, Flynn TW, Wainner RS, Ryder M, Gill H, Garber MB, Atkins D. Measurement properties of outcomes tools for subjects with lumbar spinal stenosis. *J Orthop Sports Phys Ther.* 2004; 34(1):A-7-8 (Platform CSM)
  9. Cliborne A, Wainner RS, Rhon CI, Judd CD, Fee TT, Whitman JM, Matekel RL, Lowe LM. Reliability of provocative hip tests and a functional squat test in patients with knee osteoarthritis: incidence of positive test findings and short-term response to hip mobilization. *Journal of Manual and Manipulative Therapy.* 2003;11:163. (Platform Annual AAOMPT Conference)
  10. Flynn T, Wainner R, Fritz J. Spinal Manipulation in professional level physical therapist education: changing behaviors and outcomes in the management of low-back pain. *Journal of Manual and Manipulative Therapy.* 2003;11:164-165. (Platform Annual AAOMPT Conference)
  11. Whitman J, Flynn T, Wainner R, Garber M, Ryder M, Gill H, Atkins D, Childs JD, Bennet A. Manual physical therapy interventions and a body weight supported treadmill ambulation program for patients with lumbar spinal stenosis. *Journal of Manual and Manipulative Therapy.* 2003;11:168. (Platform Annual AAOMPT Conference)
  12. Flynn T, Wainner RS, Whitman J. Immediate effects of thoracic spine manipulation on cervical spine range of motion and pain. AAOMPT Annual Conference. *Journal of Manual and Manipulative Therapy.* 2001;9:165-166. (Platform Annual AAOMPT Conference)
  13. Whitman J, Flynn T, Rendeiro D, Butler B, Wainner RS, Allison S. Abstract: Does manual therapy experience influence reliability for selected pelvic girdle tests and measures? AAOMPT Annual Conference. *Journal of Manual and Manipulative Therapy.* 2001;9:170-171. (Platform Annual AAOMPT Conference)
  14. Wainner RS, Fritz JM, Boninger M, Irrgang JJ, Delitto T. Abstract/platform presentation PL35: Reliability of common clinical examination measures for cervical radiculopathy and carpal tunnel syndrome and the diagnostic accuracy of the clinical examination and self report instruments for carpal tunnel syndrome. APTA Combined

- Sections Meeting (CSM). J Orthop Sports Phys Ther. 2001; 31:A-13. (Platform Annual AAOMPT Conference)
15. Wainner RS, Fritz JM, Boninger M, Irrgang JJ, Delitto T. Abstract/platform presentation Reliability of common clinical examination measures for cervical radiculopathy and carpal tunnel syndrome and the diagnostic accuracy of the clinical examination and self-report instruments for cervical radiculopathy. AAOMPT Annual Conference 2000
  16. Flynn T, Fritz J, Allison S, Whitman J, Magel J, Rendeiro D, Butler B, Wainner RS. abstract/platform presentation: The manipulative pop – is it associated with successful sacroiliac region manipulative treatment? AAOMPT Annual Conference. Journal of Manual and Manipulative Therapy. 2000; 8:140-141

#### 4. Reports

#### 5. Book Reviews

#### 6. Other

##### a. Web-based and e-products

-Co-developer and managing partner of first-ever on-line physical therapy professional network ([www.MyPhysicalTherapySpace.com](http://www.MyPhysicalTherapySpace.com))

-Co-developer and author of first-ever physical therapy blog (Evidence in Motion, co-owner/partner; [www.evidenceinmotion.com](http://www.evidenceinmotion.com))

##### b. Letters to the Editor

Flynn TW, Fritz J, Wainner RS, Whitman J. Letter to the Editor- Are Physical Agents the Same as Rehabilitation? Phys Ther. 82:286-287, 2002

##### c. Manuscripts in Review/Preparation, ongoing projects:

1. An Evaluation of a Real-Time Body Visualization Device for Shoulder Rehabilitation
2. A comparison of thoracic manipulation, scapular muscle stretching, and combined manipulation and stretching for immediate effects on pain and range-of-motion in patients with mechanical neck disorders (data collection ongoing)
3. Leake V, Wainner RS, Larson M, Ayala A, Weichers J, Czech J, Young B. Reliability and normative values of deep neck flexor muscle endurance measurements in USAF high-performance aircraft pilots. Wilford Hall Medical Center Protocol/12th Flying Training Wing, Randolph AFB. (In Revision, J Av Space Env)
4. The Effectiveness of Accessory Movement Manipulations Under Brachial Plexus Blocks for the Treatment of Adhesive Capsulitis of the Shoulder: A Randomized Clinical Trial. Brooke Army/Wilford Hall Medical Center Protocol. (Manuscript in preparation)

##### *2006-Present*

1. Texas State University Faculty Advisor: The immediate effects of scapular stretching on cervical ROM in normal subjects: A pilot study. (Principal Investigator (PI), Chair)

##### *2004-2007*

1. Reference Values of the Ulnar Sensory Nerve (doctoral (DScPT) committee member. Tom Reudiger, Rocky Mountain University)
- 2.

##### *2005-2006*

3. Texas State University Faculty Advisor: A comparison of thoracic manipulation, scapular muscle stretching stretching, and combined manipulation and stretching for immediate effects on pain and range-of-motion in patients with mechanical neck disorders (Principal Investigator (PI), Chair)

2001-2005 US Army-Baylor Doctoral Program Research Director Oversight:

*Class 2007 (DPT)*

4. The Immediate Effects of Thoracic Spine and Rib Manipulation on Patients with Primary Complaints of Shoulder Impingement. (Associate Investigator (AI), Faculty member)
5. Comparison of two lumbo-pelvic manipulations for the treatment of low back pain as measured by patient self-reports of pain and function: a randomized clinical trial. (Associate Investigator (AI), Faculty member)
6. Long-Term Effectiveness of the Army's Running Shoe Program: An Analysis of Soldiers' Knowledge and Shoe Selection. Proposed Research
7. Long-Term Effectiveness of the Army's Running Shoe Program: A Biomechanical Analysis of the Effectiveness of Different Styles of Running Shoes

*Class 2006 (DPT)*

8. Development of a clinical prediction rule to identify patients with knee osteoarthritis who respond favorably to hip mobilization (Principal Investigator (PI), Chair)
9. Preferential Activation of the Transversus Abdominus Muscle during Core Lumbar Stabilization Exercises (Associate Investigator (AI), Faculty member)
10. Fluoroscopic Assessment of Glenohumeral Kinematics. A comparison of dynamic versus static motion
11. Identification of patients with patellofemoral pain syndrome who respond best to manipulation of the sacroiliac joint (AI, Faculty member).

*Class 2004*

12. Reliability and normative values of deep neck flexor muscle endurance measurements in USAF high-performance aircraft pilots (PI, Chair)
13. Utilization of real-time ultrasound as an adjunct to lumbar stabilization training
14. Comparative effects of shoulder muscle fatigue on glenohumeral migration in patients diagnosed with impingement syndrome. An in vivo study using cineradiographic assessment
15. Effect of Spinal manipulation on pelvic crest alignment: functional status and pain in subjects with low-back pain (AI, Faculty member)

*Class 2003*

16. The relationship between foot type, navicular drop test, and plantar pressure distribution patterns during walking (AI, faculty member)
17. Identification of patients with patellofemoral pain syndrome who respond best to patellar taping (AI, faculty member)
18. Comparative effects of shoulder muscle fatigue on glenohumeral migration in normal subjects: an in vivo study using cineradiographic assessment
19. A Randomized Controlled Trial of a Leg Orthosis versus Traditional Treatment in Soldiers with Shin Splints
20. Reliability of provocative hip tests and a functional squat test in patients with knee osteoarthritis: incidence of positive test findings and short-term response to hip mobilization (PI, Faculty Chair)

*Class 2002*

21. Reliability of a measurement of neck flexor muscle endurance (AI, Faculty member)
22. Effect of single versus dual back strap carry on spinal posture and muscle activity
23. EMG activity of the abdominals on static and labile surfaces in subjects with and without low back pain
24. Reliability and validity of the palpation meter for leg length discrepancy
25. Normative values by age of thoracic spine range-of-motion.

**B. Works not in Print****1. Papers Presented at Professional Meetings**

Whitman JM, Flynn TW, Wainner RS, Garber MB, Ryder M, Gill H, Atkins D, Childs JD, Fritz JM, Bennett A (Whitman). A comparison between two physical therapy treatment programs for subjects with lumbar spinal stenosis: A randomized clinical trial. (8<sup>th</sup> International Federation of Orthopaedic Manual Physical Therapists, Cape Town, South Africa)

**2. Invited Talks, Lectures, Presentations**

1. APTA Annual Conference (Boston) 2010, Clinical Education Principles and Economic Models. Private Practice and Academic Collaborative Internship Model – TexPTS and US Army-Baylor University.
2. Evidence in Motion 1<sup>st</sup> Annual “Manipalooza” Conference 2010, University of Colorado. Commentator and Panel Discussion Moderator.
3. The Emirates Physiotherapy Conference (March) 2010
  - a. Keynote: The Future of Physical Therapists in the Health Care Food Chain: Capitalizing in Difficult Times
  - b. Keynote: Evidence-based Management of Low Back Pain: The Role of Non-operative Therapy
  - c. Mechanisms Underlying Spinal Manipulation for Low Back Pain and Selected Demonstration of Treatment Techniques (2hrs)
4. Evidence in Motion 2<sup>nd</sup> Annual Student and Faculty Summit: 2009 Program Overview
5. Keynote Speaker: Israeli Physiotherapy Society Annual Meeting (May 2009)
6. Evidence in Motion 1<sup>st</sup> Annual Faculty Summit: Use of FOTO System and Clinical Outcomes. (CSM 2009 1hr)
7. Rocky Mountain University Doctoral Advisory Committee: Clinical Education Network Concepts. 2008 (Provo, UT 2hrs)
8. APTA Private Practice Section Annual Meeting. Building Evidence-based Practice Systems. 2008 (Orlando, FL 1hr.)
9. Keynote Speaker: Annual Clinical Excellence Awards Banquet. Benchmark Physical Therapy. 2008(Chattanooga, TN).
10. NARA 2007 Annual Conference Evidence-based treatment and documentation for low back pain. (St. Petersburg, FL 2hrs.)
11. Invited Lecturer Management of the client with cervical radiculopathy (TPTA Capital District Chapter Meeting, Sept 2007)

12. Invited Lecturer APTA 2007 Annual Conference Meeting– Manual Physical Therapy and Exercise for the Hip Region (Denver, CO)
13. Invited Lecturer Evidence-based Practice. (University of Kentucky transitional DPT program, 2007)
14. Invited Lecturer 2006 Gallup Award for Healthcare Excellence. Gallup Healthcare Group, national consulting division of the Gallup Organization for Evidence In Motion (Gallup University, Omaha, NE, 1hr)
15. Keynote Speaker, 2005 Graduation Address for US Army-Baylor Fellowship in Orthopaedic Manual Physical Therapy, Class 2006. Brooke Army Medical Center, FT Sam Houston, TX. 14 December 2006. "Look Outside Your Window and Inside Your Mirror"
16. American College of Rheumatology (ACR) Differential diagnosis of upper quarter pain. San Diego, CA (ACR 2006 Annual Conference, San Diego, 1hr)
17. Keynote Speaker, Closing Ceremony Address US Army-Baylor Doctoral Program in Physical Therapy, Class 2006. FT Sam Houston, TX. April 2005. "Look Outside Your Window and Inside Your Mirror".
18. Invited Lecturer APTA Private Practice Section (PPS). Evidence-based practice (2005 PPS Annual Conference)
19. Invited Lecturer Special topic: cervical spine disorders. Evidence-based examination and intervention for cervical radiculopathy (2005 APTA Annual Conference)
20. Invited Lecturer: 2004 Manipulation Workshop for Academic Educators. (Regis University)
21. Keynote Speaker, 2004 Research Day, Texas Womens University (Houston): Evidence-Based Practice: Past, Present, and Your Future.
22. Invited Lecturer Feinberg School of Medicine: 2003 Department of Physical Therapy and Human Movement Sciences, Northwestern University: Spinal Manipulation for Acute LBP: Who Needs It And Are They Identifiable?
23. Academic Administrators Special Interest Group Forum, APTA (San Antonio, TX) – Manipulation in First-Professional Education Curricula
24. Invited Lecturer AF/DoD Management Symposium Building a Shared Vision: 2003 The Future Role of Joint Physical Medicine. Manipulation and Pharmacology for Physical Therapists (Wash, DC)
25. Invited Lecturer APTA 2003 Combined Sections Meeting– Spinal Manipulation- Evidence and Evolution in the Management of Lumbopelvic Disorders (Tampa, FL)
26. Faculty Summer Institute: Teaching Evidence-based Practice in Rehabilitation Professional Curricula. Spinal and extremity manipulation: integrating evidence-based practice principles into a clinical procedures course. (2002 Boston University)
27. Invited Lecturer FT. Knox Physical Therapy Department: 2002 Evidence-Based Approach To Manipulative Intervention Of The Cervico Thoracic Spine (FT Knox, KY)
28. Invited Lecturer APTA 2002 Annual Legislative Conference (Louisville, KY) – Effective Testifying and Letter Writing

29. Invited Lecturer University of Texas. University Hospital Pain/Anesthesia  
Department: 2002 Management of Cervical Radiculopathy
30. Invited Lecturer 2001 AAOMPT Annual Conference: Discordant Reviews—How  
Do We Proceed When the Evidence Conflicts?
31. Invited Lecturer 2001 AAOMPT Annual Conference: Diagnosis and Non-operative  
Management of Cervical Radiculopathy

### 3. Platform Presentations

1. Walker MJ, Boyles R, Young B, Strunce J, Garber M, Whitman J, Deyle G, Wainner, RS. The Effectiveness of Manual Physical Therapy and Exercise for Mechanical Neck Pain: A Randomized Clinical Trial Spine . Spine. 2008;33:2371-2378 (Rose Excellence in Research Award (CSM 2009))
2. Dobinsky A, Huerta D, Cardenas J, Wainner RS. The immediate effects of scapular stretching on cervical ROM in normal subjects: A pilot study. Texas State University College of Health Professions Research Day 2008.
3. Montanez M, Wainner RS. Ultrasound reliability used in the Prevention of Low Back Pain (POLM) In the Military Study. Texas State University College of Health Professions Research Day 2008.
4. Sutlive TG, Mabry LM, Easterling EJ, Durbin JD, Hanson SL, Wainner RS, Childs JD. Comparison of short-term response to 2 spinal manipulation techniques for patients with low back pain. APTA CSM Platform, J Orthop Sports Phys Ther. 2007;37(1):OPL4.
5. Rendeiro DG, Majkowski GR, Lee IE, Gill NW, Jensen DA, Deyle GD, Wainner RS, Overbaugh R. The effectiveness of translational manipulation under interscalene block for treatment of adhesive capsulitis of the shoulder: a prospective clinical trial. APTA CSM Platform, J Orthop Sports Phys Ther. 2007;37(1): OPL35.
6. Currier L, Froelich P, Carow S, Kane A, Boyles R, Cliborne A, Mansfield L, Wainner RS. Development of a clinical prediction rule to identify patients with knee osteoarthritis who respond favorably to hip mobilization. Platform, Proceedings of the TPTA Annual Conference 2005
7. Iverson C, Crowell M, Morrell P, Perkins M, Moore J, Garber M, Sutlive T, Wainner RS. Identification of patients with patellofemoral pain syndrome who respond best to manipulation of the sacroiliac joint. CSM Platform presentation
8. Teyhen DS; Rieger JL; Westrick RB; Miller AC; Molloy JM; Wainner RS; Childs JD. Ultrasound imaging of the deep abdominal muscles during core stabilization exercises. Platform, Proceedings of the TPTA Annual Conference 2005.
9. Whitman JM, Flynn TW, Wainner RS, Fritz JM, Childs JD, Garber MB, Ryder M, Gill H, Bennett A. A comparison between two physical therapy treatment programs for subjects with lumbar spinal stenosis: A randomized clinical trial. (Platform CSM)
10. Walker MJ, Young BA, Boyles R, Strunce JB, Garber MB, Whitman JM, Deyle GD, Wainner RS. The efficacy of manual physical therapy and exercise for mechanical neck disorders: a randomized controlled trial. (Platform CSM)
11. Loomis G, Sutlive TG, Weigel K, Mendoza A, Morris K, Rendeiro D, Wainner RS. Changes in pelvic asymmetry, functional status, and pain in subjects with low back pain more likely to respond to manipulation. (Platform CSM)

12. Fritz JM, Childs JD, Flynn TW, Whitman JM, Wainner RS. Segmental mobility testing in the classification of low back pain. *J Orthop Sports Phys Ther.* 2004; 34(1):A-7. (Platform CSM)
13. Whitman JM, Fritz JM, Childs JD, Flynn TW, Wainner RS, Ryder M, Gill H, Garber MB, Atkins D. Measurement properties of outcomes tools for subjects with lumbar spinal stenosis. *J Orthop Sports Phys Ther.* 2004; 34(1):A-7-8 (Platform CSM)
14. Cliborne A, Wainner RS, Rhon CI, Judd CD, Fee TT, Whitman JM, Matekel RL, Lowe LM. Reliability of provocative hip tests and a functional squat test in patients with knee osteoarthritis: incidence of positive test findings and short-term response to hip mobilization. *Journal of Manual and Manipulative Therapy.* 2003;11:163. (Platform Annual AAOMPT Conference)
15. Flynn T, Wainner R, Fritz J. Spinal Manipulation in professional level physical therapist education: changing behaviors and outcomes in the management of low-back pain. *Journal of Manual and Manipulative Therapy.* 2003;11:164-165. (Platform Annual AAOMPT Conference)
16. Fritz JM, Whitman JM, Flynn TW, Wainner RS, Childs JD (Fritz). Clinical factors related to the failure of individuals with low back pain to improve with spinal manipulation. Combined Sections Meeting of the American Physical Therapy Association, Tampa, FL, February 2003. (Platform CSM)
17. Whitman J, Flynn T, Wainner R, Garber M, Ryder M, Gill H, Atkins D, Childs JD, Bennet A. Manual physical therapy interventions and a body weight supported treadmill ambulation program for patients with lumbar spinal stenosis. *Journal of Manual and Manipulative Therapy.* 2003;11:168. (Platform Annual AAOMPT Conference)
18. Wainner RS, Fritz JM, Boninger M, Irrgang JJ, Delitto T, Allison S. Reliability and diagnostic accuracy of the clinical examination and patient self-report measures for cervical radiculopathy. WHMC First Annual Research Day 2003, Platform presentation
19. Flynn T, Wainner RS, Whitman J. Immediate effects of thoracic spine manipulation on cervical spine range of motion and pain. AAOMPT Annual Conference. *Journal of Manual and Manipulative Therapy.* 2001;9:165-166. (Platform Annual AAOMPT Conference).
20. Whitman J, Flynn T, Rendeiro D, Butler B, Wainner RS, Allison S. Abstract:. Does manual therapy experience influence reliability for selected pelvic girdle tests and measures? AAOMPT Annual Conference. *Journal of Manual and Manipulative Therapy.* 2001;9:170-171. (Platform Annual AAOMPT Conference)
21. Wainner RS, Fritz JM, Boninger M, Irrgang JJ, Delitto T. Abstract/platform presentation PL35: Reliability of common clinical examination measures for cervical radiculopathy and carpal tunnel syndrome and the diagnostic accuracy of the clinical examination and self report instruments for carpal tunnel syndrome. APTA Combined Sections Meeting (CSM). *J Orthop Sports Phys Ther.* 2001; 31:A-13. (Platform Annual AAOMPT Conference)
22. Flynn T, Fritz J, Allison S, Whitman J, Magel J, Rendeiro D, Butler B, Wainner RS abstract/platform PL25. Characteristics of patients with low back pain who respond best to sacroiliac region manipulation. APTA CSM *J Orthop Sports Phys Ther.* 2001; 31:A-9-10
23. Flynn T, Fritz J, Allison S, Whitman J, Magel J, Rendeiro D, Butler B, Wainner RS. abstract/platform presentation: The manipulative pop – is it associated with successful

- sacroiliac region manipulative treatment? AAOMPT Annual Conference. Journal of Manual and Manipulative Therapy. 2000; 8:140-141
24. Wainner RS, Currier DP, Nitz AJ, Carlson CR. Platform Presentation Muscular Strength Gains and Sensory Perception Changes: A Comparison of NMES and Combined NMES/Magnetic Stimulation. APTA Combined Sections Meeting. 1993

#### **4. Consultancies**

##### *20010 – Present*

1. OSI- Multi-location practice in Minneapolis, MN
2. St. Vincent- Hospital owned multi-location outpatient clinics

##### *2008 Present*

3. Benchmark Physical Therapy- Multi-location (>60 clinics) practice in TN, GA, and NC
4. Athletico Physical Therapy and Sports Medicine. 300+ physical therapist employee practice in Chicago
5. Mountain River PT- Multi-location (8 clinics) practice in WV

##### *2007 Present*

6. San Luis Sports Therapy 12 location outpatient physical therapy practice, based in San Luis Obispo, CA
7. ProRehab 10 location outpatient physical therapy practice, Evansville, IN
8. ProAxis multi-location outpatient physical therapy practice, based in Spartanburg, SC
9. Kinetic Physical Therapy Specialists, single therapist private practice, Chicago, IL

##### *10. 2006 Present*

11. Blue Hills single location outpatient physical therapy practice, Chetek, WI

##### *2005 Present*

12. ProActive 5 location outpatient physical therapy practice, Syracuse, NY and 3 in Greenville, NC

##### *2004 Present*

13. APTA ICF Classification Task Force.

##### *2004 - 2006*

14. KORT (Kentucky Orthopedic Rehab Team) 34 location outpatient physical therapy practice, based in Louisville, KY
15. Strive! 6-location outpatient physical therapy practice, Ocala, FL
16. SPORT 23 location outpatient physical therapy practice, based in Palm Harbor, FL

##### *2000 – 2003*

17. US Army-Baylor transitional doctorate in physical therapy planning Committee.

#### **5. Workshops**



2010

1. Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders. Dubai, Emirates (15hrs) The Emirates Physiotherapy Conference 2010 (annual conference)
2. Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Disorders. San Luis Sports Therapy. San Luis Obispo, CA (15hrs).

2009

3. Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Disorders. Bellin Health System. Greenbay, WI (15hrs)
4. EIM Residency & Fellowship Course: Evidence-based Examination and Selected Interventions for Patients with Cervicothoracic Disorders. (ProActive, NY 15hrs)
5. Management of Cervical Disorders. Israeli Physiotherapy Society (3hrs)
6. Update on Therapeutic Interventions for the hip. Israeli Physiotherapy Society (3hrs)
7. Physical Therapy Management of Common Hip Disorders With a Focus on Manual Therapy and Exercise: An Evidence-based Update. AZ State Chapter Annual Orthopaedic Update, Phoenix AZ 8hrs)
8. EIM 1<sup>st</sup> Annual Faculty Summit. (Host presenter, FOTO and outcomes; APTA CSM, 4 hours).
9. EIM Residency & Fellowship Course: Evidence-based Examination and Selected Interventions for Patients with Lower Extremity Disorders. (Athletico Rehabilitation, Chicago, IL 15hrs)

2008

10. AAOMPT Annual Conference. Manual Therapy and the Older Adults (co-taught with Dr. Joshua Cleland and Dr. Julie Whitman; Seattle, WA. 15hrs.).
11. EIM Residency & Fellowship Course: Evidence-based Examination and Selected Interventions for Patients with Upper Extremity Disorders. (Benchmark Rehabilitation, Atlanta, GA 15hrs)
12. EIM Course: Evidence-based Examination and Selected Interventions for Patients with LumboPelvic and Hip Disorders. (St. Ambrose University, Davenport IA)
13. EIM Residency & Fellowship Course: Evidence-based Examination and Selected Interventions for Patients with Cervicothoracic Disorders. (ProAxis Therapy, Spartansburg, SC 15hrs)
14. Manual Therapy and Exercise for Patients with Degenerative Lumbar Spinal Stenosis. (California Physical Therapy Association, Sacramento CA. 15 hrs)
15. EIM Residency & Fellowship Course: Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Disorders. (ProAxis Rehab, Greenville, SC 15hrs)

16. EIM Residency & Fellowship Course: Evidence-based Examination and Selected Interventions for Patients with Lower Extremity Disorders. (TexPTS, New Braunfels, TX 15hrs)

2007

17. EIM Course: Evidence-based Examination and Selected Interventions for Patients with LumboPelvic and Hip Disorders. (SPORT; Palm Harbor, FL 15hrs)
18. EIM Course: Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders. (NovaCare; Navarre, FL 15hrs)
19. EIM Course: Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders. (NovaCare; West Palm Beach, FL 15hrs)
20. EIM Course: Evidence-based Examination and Selected Interventions for Patients with Upper Extremity Disorders. (NovaCare, Navarre; FL 15hrs)
21. EIM Course: Evidence-based Examination and Selected Interventions for Patients with LumboPelvic and Hip Disorders. (NovaCare, Burlington, NC 15hrs)
22. EIM Course: Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders. (St. Ambrose University; Davenport, IA 15hrs)
23. EIM Course: Evidence-based Examination and Selected Interventions for Patients with LumboPelvic and Hip Disorders. (BreakThrough Physical Therapy, Mt. Laurel, NJ NC 15hrs)
24. EIM Course: Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders. (ProRehab; Evansville, IN 15hrs)
25. EIM Course: Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders. (Sacred Heart University; Stratford, CT 15hrs)
26. EIM Course: Evidence-based Examination and Selected Interventions for Patients with Upper Extremity Disorders. (ProActive, Syracuse, NY 15hrs)

2006

27. EIM Course: Evidence-based Examination and Selected Interventions for Patients with LumboPelvic and Hip Disorders. (Therapy Partners, Minneapolis, MN 15hrs)
28. APTA Private Practice Section (PPS). Autonomous Professionals, Evidence-based practice and Marketing (APTA Combined Sections Meeting, San Diego, CA. 3hrs)
29. EIM Course: Evidence-based Examination and Selected Interventions for Patients with LumboPelvic and Hip Disorders. (SPORT; Palm Harbor, FL 15hrs)
30. EIM Course: Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders. (Kentucky Physical Therapy; London, KY 15hrs)
31. EIM Course: Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders. (SPORT, Palm Harbor; FL 15hrs)
32. EIM Course: Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders. (ProActive Physical Therapy; Syracuse, NY 15hrs)
33. -Examination and Selected Interventions for Patients of the Lumbar Spine and Pelvis. (APTA) Washington University, MO. Sep 23-24 2006 (14hrs)

34. -Evidence Based Practice in Your Clinic. (APTA Annual Conference) Orlando, FL. Jun 21, 2006 (.7hrs)
35. -Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders. (Evidence in Motion). Peak Performance Physical Therapy, Owego, NY. Jul 15 2006. (1.5CEUs)
36. EIM Course: Evidence-based Examination and Selected Interventions for Patients with LumboPelvic and Hip Disorders. (Strive, Ocala; FL 15hrs)
37. EIM Course: Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders. (Amato, Shinn, and Assoc; St. Louis, MO 15hrs)
38. EIM Course: Evidence-based Examination and Selected Interventions for Patients with LumboPelvic and Hip Disorders. (Spooner Physical Therapy; Scottsdale, AZ 15hrs)

## 2005

39. EIM Course: Evidence-based Examination and Selected Interventions for Patients with LumboPelvic and Hip Disorders. (Amato, Shinn, and Assoc; St. Louis, MO 15hrs)
40. EIM Course: Evidence-based Examination and Selected Interventions for Patients with LumboPelvic and Hip Disorders. (KORT; Louisville, KY 15hrs)
41. EIM Course: Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders. (KORT; Louisville, KY 15hrs)
42. EIM Course: Evidence-based Examination and Selected Interventions for Patients with Lower Extremity Disorders. (KORT; Louisville, KY 15hrs)
43. EIM Course: Evidence-based Examination and Selected Interventions for Patients with LumboPelvic and Hip Disorders. (Kentucky Physical Therapy; London, KY 15hrs)
44. EIM Course: Evidence-based Examination and Selected Interventions for Patients with Upper Extremity Disorders. (KORT, Louisville; KY 15hrs)
45. APTA Advance Clinical Practice Course: Evidence-Based Practice: A "How To" Course. Wainner RS. (APTA Annual Conference, Boston. 8hrs)
46. APTA Advance Clinical Practice Course: Examination and Selected Interventions of the Lumbar Spine and Pelvis (University of Alabama, AL Wainner RS, Whitman, 16hrs.)
47. APTA ACP Course: An Evidence-Based Approach to the Examination and Selected Interventions: Cervical Spine Disorders. Wainner RS, (Burlington, VT 16hrs)
48. APTA Advance Clinical Practice Course: Evidence-Based Practice: A "How To" Course. Wainner RS (Mesa, AZ, 8hrs)
49. APTA Annual Combined Section Meeting. Orthopaedic Section. Orthopaedic Physical Therapy Research Information Exchange. Delitto A, Powers CM, Riddle DC, Fitzgerald K, Irrgang J, Childs J, Fritz J, Muller M. Wainner RS, Piva S. (CSM, New Orleans, 3hrs)
50. APTA Annual Combined Section Meeting. Education Section Manipulation in the Classroom and Clinic: Applying the Evidence and Using the MEM" Wainner RS, Boissioneau B, King P, Wolff-Burke M, Olson K (CSM, New Orleans, 4hrs)

## 2004

51. APTA Advance Clinical Practice Course: Examination and Selected Interventions of the Lumbar Spine and Pelvis (Belmont University, MA; Wainner RS, Godges, 16hrs.)

52. Kentucky Orthopedic Rehab Team (Louisville, KY). Examination and Selected Interventions of the Lumbar Spine and Pelvis. Wainner RS, Childs JD, Boyles R. (16hrs)
53. Manipulation Workshop for Academic Educators. (Regis University, Denver CO, 16hrs)
54. Regis University EMG Basics Course (Denver, CO, 16 hrs).
55. APTA ACP Course (Chicago, IL): An Evidence-Based Approach to the Examination and Selected Interventions: Cervical Spine Disorders. Childs JD, Wainner RS, Bennett A. (16hrs)
56. Kentucky Orthopedic Rehab Team (Louisville, KY). An Evidence-Based Approach to the Examination and Selected Interventions: Cervical Spine Disorders. Childs JD, Wainner RS, Bennett A. (16hrs)
57. APTA Advance Clinical Practice Course: Evidence-Based Practice: A "How To" Course. Wainner RS. (Baltimore, Maryland. 8hrs)
58. APTA Advance Clinical Practice Course: Examination and Selected Interventions of the Lumbar Spine and Pelvis (Simmons University, MA; Wainner RS, Whitman, 16hrs.)
59. APTA Advance Clinical Practice Course: Examination and Selected Interventions of the Lumbar Spine and Pelvis (Regis University, CO; Wainner RS, Godges, 16hrs.)
60. APTA Combined Sections Meeting (Nashville, TN) - Manual Physical Therapy- Evidence and Evolution in the Management of Cervical Spine Disorders, Flynn T, Wainner RS, Childs J, Noteboom T. (2hrs)
61. APTA Combined Sections Meeting - Manipulation in First-professional Level Physical Therapist Education: An Educators Workshop. Flynn T, Wainner RS. (4hrs)

2003

62. Regis University EMG Basics Course (Denver, CO, 16 hrs).
63. APTA Advance Clinical Practice Course: Examination of the Lumbar Spine and Pelvis (Chicago, IL; Wainner RS, Godges, Bennett, 16hrs.)
64. AF/DoD Management Symposium (Wash, DC) Building a Shared
65. Army-Baylor Physical Therapy Advanced Spine Course – Evidence based approach to management of the lumbar and thoracic spine (12hrs.)

2002

66. APTA Advance Clinical Practice Course: Examination of the Lumbar Spine and Pelvis – (16hrs.)
67. Army-Baylor Physical Therapy Advanced Spine Course – Evidence based approach to management of the lumbar and thoracic spine (12hrs.)
68. University Hospital Pain/Anesthesia Department – Management of Cervical Radiculopathy (1hr. lecture)
69. Army-Baylor Physical Therapy Advanced Spine Course – Evidence-based Examination (lecture (1hr) and lab (4hrs); FABQ (1.5hrs); Cervical Radiculopathy (1.5hrs.);

2001

70. US Army-Baylor Physical Therapy Doug Kersey NMSC –How to Read and Interpret and EMG Report (2hrs)
71. Introduction to Pharmacology (2hrs)

72. Manipulative Techniques of the Knee, Ankle, and Foot (4hrs)
73. Spinal Manipulation: Evidence & Application (16hrs.)
74. Spinal Manipulation: Current Evidence and Technical Application in the Low Back Pain Population. Sponsored by the Texas Physical Therapy Association. (8hrs);
75. US Army-Baylor Physical Therapy Advanced Spine Course—Diagnosis and non-operative management of cervical radiculopathy (2.5hrs.)

*2000*

76. U.S. Army-Baylor Graduate Program in Physical Therapy, guest lecturer: Functional Knee Testing (21/2 hrs)
77. WHMC Annual OZO Continuing Education Course: Functional Knee Testing (21/2 hrs)
78. Evidence Based Approach to Diagnosis of Cervical Radiculopathy and CTS (6hrs)

*1999*

79. Wainner and Erhard: 1999 European Medical Command Fall Medical Conference: An Evidenced Based Approach to Spine Care: Evaluation, Manipulation, & Exercise
80. 1998 University of Pittsburgh Graduate Program in Physical Therapy - Cervical Spine Anatomy (4hrs)
81. 1997-1999
82. University of Pittsburgh Graduate Course- Diagnostic Test Considerations (1hr)
83. US Army-Baylor Physical Therapy Advanced Spine Course - Lab assistant for cervical, thoracic, lumbar spine, and pelvis.
84. 1996
85. US Army-Baylor Physical Therapy Doug Kersey NMSC - Biomechanical Approach to the Pelvic Girdle (7hrs), lab instructor for cervical, thoracic, and lumbar spine. AHCPR Guidelines (1hr)
86. South West Texas State University Graduate Program in Physical Therapy Peripheral Nerve Injuries of the Upper Extremity (4 hrs)
87. Warm Springs Rehabilitation Hospital - Alternative Models in Clinical Education (1hr)
88. US Army-Baylor Physical Therapy Advanced Spine Course Biomechanical Approach to the Pelvic Girdle (10 hrs)
89. OZO Advanced Physical Therapy Course WHMC - Alternative Models in Clinical Education (3hrs)

*1995*

90. US Army-Baylor Physical Therapy Doug Kersey NMSC - Biomechanical Approach to the Pelvic Girdle (7hrs)
91. Clinical Education: Current Issues and the Two-on-One Model, USAF Annual Management Symposium (2 hrs).

*1994*

92. Basics in Electroneuromyographic Testing, 2nd year Shenandoah University students (Masters Level, 12 hrs).

93. Physical Therapy and Medical Law, Tri-Service Medical Law Consultants Course, MGMC (1hr).

1993

94. Basics in Electroneuromyographic Testing ,2nd Year Shenandoah University students (Masters Level, 12hrs).
95. Volume Conduction; Sensory & Motor Nerve Conduction Principles in Electroneuromyographic Testing, DOD Electroneuromyographic Residency Training Program, NNMC (8 hrs)
96. Physical Therapy and Medical Law, Tri-Service Medical Law Consultants Course, MGMC (1 hr)

1990

97. Conservative Management of the Spine, Professional Staff 42d Strategic Hospital, Loring AFB, ME
98. Ankle Sprain Management/Protocol., Professional Staff 42d Strategic Hospital, Loring AFB, ME

1989

99. Back Injury/Prevention Screening, Annual USAF PT/OT Management Symposium, Sheppard AFB, TX

1987

100. Back Injury Prevention, Bi-Annual Nursing Safety Symposium and SanAntonio Real Property Maintenance Association Quarterly Awards Ceremony, WHMC, LAFB, TX

## 6. Other (Poster)

- Ruediger, T, Allison, S, Moore J, Wainner RS. Electrophysiologic measures of ulnar sensory nerve function: reference values and reliability. Rocky Mountain University Evidence Based Practice Symposium, 2010.
- Boyles RE, Ritland BM, Miracle BM, Barclay DM, Faul MS, Koppenhaver SL, Moore JH, Wainner RS. The short-term effects of thoracic spine thrust manipulation on patients with shoulder impingement syndrome. APTA CSM Poster Presentation, 2007.
- Boyles R, Walker M, Young B, Strunce J, Wainner R: Manipulation Versus Graded Mobilization of Mechanical Neck Disorders. APTA CSM Poster Presentation, 2006
- Currier L, Froelich P, Carow S, Kane A, Boyles R, Cliborne A, Mansfield L, Wainner RS. Development of a clinical prediction rule to identify patients with knee osteoarthritis who respond favorably to hip mobilization) APTA CSM Poster Presentation, 2005.
- Leake V, Wainner RS, Larson M, Ayala A, Weichers J, Czech J, Young B. Reliability and normative values of deep neck flexor muscle endurance measurements in USAF high-performance aircraft pilots. Texas Physical Therapy Association Annual Conference APTA CSM Poster Presentation, 2004

## 7. In Progress

1. Cleland J, Whitman JW, Wainner RS. Psychometric Properties of the Modified Oswestry Disability Index, Numeric Pain Rating Scale, Modified Swiss Spinal Stenosis Scale, and Patient Specific Functional Scale in Patients with Lumbar Spinal Stenosis.. In progress **ARCHIVES-PMR-D-09-00436. 2009**

## **C. Grants and Contracts**

### **1. Funded External Grants and Contracts**

*2006*

1. Texas Physical Therapy Foundation. A comparison of thoracic manipulation, scapular muscle stretching, and combined manipulation and stretching for immediate and short-term effects on pain and range-of-motion in patients with mechanical neck disorders. (Approved - \$2,645.00)

*2004*

2. APTA Orthopaedic Section Grant APTA. The Effectiveness of Accessory Movement Manipulations Under Brachial Plexus Blocks for the Treatment of Adhesive Capsulitis of the Shoulder: A Randomized Clinical Trial. Funded- \$7,500.00

*2003*

3. Foundation for Physical Therapy- Evaluating the effectiveness of PT interventions for persons with musculoskeletal disorders: The Effectiveness of an Extension-Oriented Treatment Approach in a Subgroup of Patients with Low Back Pain: A Randomized Clinical Trial. Co-investigator, multi-center study. Funded-\$40,000.00
4. Health Promotion and Prevention Initiatives Program, U.S. Army Center for Health Promotion and Preventive Medicine: “Screening Soldiers at Risk for Chronic, Disabling Episodes of Low Back Pain”, Co-Investigator. Funded- \$33,115.70

*2001*

5. US Surgeon General’s Office funding for clinical research through the Wilford Hall Medical Center Clinical Research Squadron, 59th MDW, Lackland AFB: Effectiveness of manual physical therapy and exercise for lumbar spinal stenosis: a prospective, randomized, controlled clinical trial. Co-investigator, multi-center study. Funded-\$10,000
6. APTA Orthopaedic Section Grant: Effectiveness of manual physical therapy and exercise for lumbar spinal stenosis: a prospective, randomized, controlled clinical trial. Co-investigator, multi-center study. Funded- \$10,000

*1999*

7. Foundation for Physical Therapy- Evaluating the effectiveness of PT interventions for persons with musculoskeletal disorders: Identification of patients with acute low back pain who respond best to sacroiliac region manipulation. Co-investigator, multi-center study. Funded \$40,000
8. APTA Orthopaedic Section Grant: “Cervical Radiculopathy and Carpal Tunnel Syndrome: A Prospective Determination of the Reliability, Diagnostic Accuracy, and Predictive Validity of Commonly used Clinical Examination Measures and Patients Self-Report Instruments PI, mutli-center study. Funded- \$5000.00

### **2. Submitted, but not Funded, External Grants and Contracts**

2003

Congressionally Directed Peer-Reviewed Medical Research Program. *Validation of Two Clinical Prediction Rules for the Diagnosis of Carpal Tunnel Syndrome and Cervical Radiculopathy*. PI, multi-center study. \$2.3M. Not funded, score=2.6

**3. Funded Internal Grants and Contracts**

**4. Submitted, but not Funded, Internal Grants and Contracts**

**D. Fellowships, Awards, Honors**

**1. Fellowships, Board Certifications**

2001 – Present

Fellow, American Academy of Orthopaedic Manual Physical Therapy (AAOMPT): #FF0357

1995 – Present

Board Certified Clinical Specialist in Clinical Electrophysiologic Physical Therapy,  
American Board of Physical Therapy Specialties; ABPTS: #897; ABPTS: #  
(Recertification 2005)

1994 – Present

Board Certified Clinical Specialist in Orthopaedic Physical Therapy; ABPTS: #1173;  
ABPTS: # (Recertification 2004)

1985-Present

Physical Therapy License TX #1043545 (current)

**2. Awards and Honors**

2010

1. APTA 2010 Rose Excellence in Research Award: Walker MJ, Boyles R, Young B, Strunce J, Garber M, Whitman J, Deyle G, Wainner, RS. The Effectiveness of Manual Physical Therapy and Exercise for Mechanical Neck Pain: A Randomized Clinical Trial Spine . Spine. 2008;33:2371-2378
2. Texas State University: Outstanding Faculty Member in Scholarship, Dept. of Physical Therapy.
3. Texas State University: Faculty Excellence Award for Scholarship (Associate Professor level), College of Health Professions.

2009

4. PPS Private Practice of the Year Award. Rob Wainner/Texas Physical Therapy Specialists.
5. Inc. 500 – Texas Physical Therapy Specialists; ranked #214 overall and #19 for health care nationally
6. Inc.Credible Award! In conjunction with Evidence In Motion.  
<http://evidenceinmotion.com/news.asp?CategoryID=30#nid71>
7. Texas State University: College of Health Professions Faculty Excellence Award for Scholarship (Associate Professor Level)

2007

8. APTA Geriatric Section Excellence in Research Award – paper: Whitman JM, Flynn TW, Childs JD, Wainner RS, Gill H, Ryder MG, Garber M, Bennett A, Fritz JM. A



Comparison Between Two Physical Therapy Treatment Programs for Patients with Lumbar Spinal Stenosis: A Randomized Clinical Trial. *Spine*. 2006;31:2541-2549

2004

9. TPTA Outstanding Physical Therapy Researcher Award
10. TPTA 1<sup>st</sup> Place Poster Presentation Award: Leake V, Wainner RS, Larson M, Ayala A, Weichers J, Czech J, Young B. Reliability and normative values of deep neck flexor muscle endurance measurements in USAF high-performance aircraft pilots. Texas Physical Therapy Association Annual Conference (Poster)
11. APTA 2004 Rose Excellence in Research Award: Flynn T, Fritz J, Whitman J, Wainner RS, Magel J, Rendeiro J, Butler B, Garber M, Allison S. A Clinical prediction rule for classifying patients with low back pain who demonstrate short-term improvement with spinal manipulation. *Spine*. 2002; 27: 2835-2843
12. IFOMPT (International Federation of Orthopaedic Manual Physical Therapists) Excellence in Research award. Whitman JM, Flynn TW, Wainner RS, Garber MB, Ryder M, Gill H, Atkins D, Childs JD, Fritz JM, Bennett A (Whitman). A comparison between two physical therapy treatment programs for subjects with lumbar spinal stenosis: A randomized clinical trial.

2003

13. WHMC First Annual Research Day- 3<sup>rd</sup> place Platform Presentation.

2002

14. United States Air Force Field Grade Physical Therapist of the Year Award Air Force Element Command Field Grade Physical Therapist of the Year Award
15. AAOMPT Excellence in Research Award - Flynn T, Fritz J, Whitman J, Wainner RS, Magel J, Rendeiro J, Butler B, Garber M, Allison S. A Clinical prediction rule for classifying patients with low back pain who demonstrate short-term improvement with spinal manipulation.

1996

16. Outstanding Clinical Faculty Award, Southwest Texas State University Physical Therapy Program

1993

17. Company Grade Officer of the Quarter MGMC, Oct – Dec

1989

18. United States Air Force Physical Therapist of the Year Award
19. Strategic Air Command Physical Therapist of the Year Award

1988

20. Company Grade Officer of the Quarter, 42nd Strategic Hospital, Jan-Mar

1986

21. Physical Therapy Worker of the Quarter, WHMC, Jun – Aug

#### **IV. SERVICE**

##### **A. University**

2008 – Present

Computer Resources Committee for the college

2006 – Present

Texas State University, Honor Council Committee

## **B. Departmental**

*2008 – Present*

Dept Personnel Committee

Member, Analysis of Practice (AOP) Committees

*2005 - 2007*

Texas State first professional level doctorate in physical therapy curriculum planning committee.

Chair, Research Program

*2003 – 2006*

US Army-Baylor transitional doctorate in physical therapy planning committee (program approved, first class admitted 2006), US Army-Baylor doctorate in physical therapy planning committee (program approved, first class admitted 2003)

## **C. Community**

*2009 – Present*

College and Singles Sunday school teacher

Member, PAX Financial Advisory Committee

*2006 – 2009*

First Baptist Church Universal City Jr./Sr. High Sunday school teacher

*2005 – 2006*

North East Bible Church Jr. High Sunday school teacher

*2002 – 2004*

Club Commander, AWANAS International (bible club) Northeast Bible Church

*1999 – 2002*

Northeast Bible Church, member and Youth Advisory Council Elder, Youth sunday school teacher, for Northeast Bible Church

Coach, FT Sam Houston Alamo Heights Area Soccer Organization (8yr olds)

*1997 – 1999*

Bible Baptist Church; Sunday school Teacher; AWANAS International (Bible club) leader

*1995 – 1997*

AWANAS International (bible club); group leader

*1992 – 1995*

Immanuel Bible Church; Sunday school Teacher

*1990 – 1992*

Porter Memorial Baptist Church; Adult studies and Sunday school Teacher

*1989 – 1990*

New Life Baptist Church; Deacon, Sunday school Teacher

## **D. Professional**

*2009 – Present*

APTA Research and Clinical Practice Panel working group member

American Academy of Orthopaedic Manual Physical Therapists representative to the Short Term Alternatives for Therapy Services (STATS) contract by the Centers for Medicare and Medicaid Services (CMS) Clinical Work Group

2008 – Present

TPTA Task Force for Continuing Education Approval Process

2007 – Present

Foundation for Physical Therapy Capital Campaign: Obtained \$25,000.00 commitment from State chapter.

APTA State Legislative Leadership Award.

2006 – Present

Member, TPTA Governmental Affairs Committee; EMG Task Force

2005 – Present

Member, TPTA Governmental Affairs Committee; Direct Access Task Force

2005 – 2008

Work Group co-leader, APTA Orthopaedic Section Evidence-based Practice Guidelines for Physical Therapy of Common Musculoskeletal Disorders Working Group; ICF Guidelines for neck pain.

2003 – Present

Editorial Review Board Member, Journal of Orthopaedic and Sports Physical Therapy

2001 – Present

Manuscript reviewer, Journal of Orthopaedic and Sports Physical Therapy

Manuscript reviewer, Physical Therapy

2001 – 2005

Chair, APTA Advisory Panel on Research (appt. term through 6/05)

Director, USAF Physical Therapy Research

Expert Reviewer, HQ USAF/SG

Advisor to Biomedical Science Corps Associate Chief for Physical Therapy for Education, Training, and Research

Member, APTA Advisory Panel on Research (appt. term through 6/05)

Member, APTA Description of Advanced Clinical Practice Committee (Clinical Electrophysiology)

Member, APTA Manipulation Task Force

Member, APTA Manipulation Task Force Manipulation and Education subcommittee

2001 – 2004

Trustee (research and education), Texas Physical Therapy Education and Research Foundation

Coordinator, USAF Readiness Skills Verification Program: Physical Therapy

1996 – 2005

Advisor to Biomedical Science Corps Associate Chief for Physical Therapy for Clinical Electrophysiology

1999 – 2001

Government Liason, Breast Cancer Randomized Clinical Trial Panel: USAMRMC  
Congressionally Mandated Research Programs

Adjunct Faculty, US Army-Baylor University Graduate Program in Physical Therapy, FT Sam Houston, TX

Key Witness, Texas Physical Therapy Association Spinal Manipulation Task Force: testimony given before 2001 Texas Legislative Session to Health and Human Services subcommittee

1999-2000

Consultant AFMC/SG Ergonomics Health Care Management Working Group for Work-related Musculoskeletal Disorders

1998 – 1999

DoD/VA LBP Guidelines Development Task Force, AF panel expert  
1997  
Oral Examination Board Member, US Army Baylor Graduate Program in Physical Therapy  
1995 – 1999  
Specialization Academy of Content Experts, Board Exam Item writer for ECS exam  
1995 – 1996  
Member, Texas Physical Therapy Association EMG Task Force: selected Witness to testify  
before the Texas Medical Association  
Select Reviewer, American Physical Therapy Association's Volume II of A Guide to  
Physical Therapist Practice: Preferred Practice Patterns  
1994  
Board Exam Item Writer for OCS Exam  
1992 – 1995  
AF Course Coordinator for National Capitol Area Tri-Service Continuing Education  
1989 – 1990  
Physical Fitness OPR, Health Promotion Committee, 42nd Strategic Hospital, Loring AFB,  
ME  
1988 – 1989  
Wing Health Promotion Coordinator, Loring AFB, ME.  
Ergonomic Advisor to the Federal Employee Compensation Act (FECA) committee, Loring  
AFB, ME  
1987 – 1988  
Hospital Representative to Company Grade Officer Council, Loring AFB, ME  
  
1986 – 1987  
Clinical Instructor for physical therapy students from the University of Texas programs at  
San Antonio, Dallas, and Army-Baylor physical therapy programs. WHMC Physical  
Therapy Department, LAFB TX

## **E. Organizations**

### **1. Honorary**

2007

Bay City High School Distinguished Alumni Award

2005

Military Order of Medical Merit; inducted as member (only AF physical therapist ever inducted)

### **2. Professional**

2008 – Present

APTA accreditation status awarded to EIM Orthopaedic Residency (residency director  
and chair of accreditation preparation team).

2003 – Present

American Physical Therapy Association (APTA) Private Practice Section

2002 – Present

Fellow, American Academy of Orthopaedic and Manual Physical Therapy (AAOMPT)

2000 – Present

AAOMPT member  
*1997 – Present*  
APTA Research Section  
*1991 – Present*  
APTA Clinical Electrophysiology Section  
*1985 – Present*  
APTA Orthopedic/Sports Section  
*1983 – Present*  
APTA member