

CURRICULUM VITAE

Mansoo Ko, PhD
ASU Station # 10923
San Angelo, TX 76909
(325) 942-2579
Doctor of Physical Therapy Program, Angelo State University

Education: University of Florida
Gainesville, FL
From 2000 to 2006
Rehabilitation Science
Ph.D./2006

Daegu University
Daegu, South Korea
From 1993 to 1999
Physical Therapy
B.S./1999

Licensure Information/Registration Number:
Registered physical therapist (South Korea): #14228, 1999

Certifications: Kinesio® Taping Practitioner (CKTP), 2010

Employment and Positions Held:

Associate Professor
Graduate Faculty
Tenured
Angelo State University
San Angelo, TX
From 2014 to present

Assistant Professor
Graduate Faculty
Tenure-track
Angelo State University
San Angelo, TX
From 2008 to 2014

Assistant Professor
Graduate Faculty
Tenure-track
University of Texas El Paso
El Paso, TX
From 2006 to 2008

Teaching Assistant
Non-tenure
University of Florida
Gainesville, FL
From 2005 to 2006

Research Assistant (WOC)
VA Brain Rehabilitation Research Center
From 2004 to 2005
Research Assistant/Teaching Assistant, Physical Therapy
Non-tenure
University of Florida
Gainesville, FL
From 2000 to 2004

Physical Therapist
Park Orthopedic clinic
Daegu, South Korea
1999

Teaching Assistant, Physical Therapy
Non-tenure
Daegu University
Daegu, South Korea
1999

Peer Reviewed Publications:

1. YH Bae, SM Lee, YJ Ko, HG Ha, **M Ko**. Comparison on Influencing Factors of motor function and gait Ability according to methods by High-Intensity Robot-Assisted Gait Training in Chronic Stroke Patients: Randomized Controlled Trial. **Gait and posture**. In Press, 2014
2. YH Bae, SM Lee, **M Ko**. Effects of High Intensity Robot-Assisted Gait Therapy on Motor Function, Gait and Dynamic Balance in Chronic Stroke. **Topics in Stroke rehabilitation**. In Press, 2014
3. J. Lee & **M. Ko**. The stages of psychological adaptation in response to short term body weight support treadmill training in persons post-stroke: A case study, **Korean Journal of educational therapist**, In press, 2014.
4. **M Ko**, S Hilgenberg, S Hasson, H Braden. Effect of Bilateral Step-up and down Training on Motor Function in a Person with Hemiparesis: A Case Report. **Physiotherapy Theory and Practice**. Posted online on April 3, 2014, doi:10.3109/09593985.2014.904959, 2014
5. **M Ko**, YP Chiu, YJ Hung-“ Dynamic postural control in older people with diabetes during gait initiation”. **Physical & Occupational therapy in Geriatrics**. 2013 Dec; 31 (4): 345-353
6. A Franz, G Rickert, **M Ko** - Immediate Effects of Acute Postural Correction on Plantar Pressures and Gait Characteristics in an Individual with Diabetic Peripheral Neuropathy: A Case Report. **Journal of novel physiotherapies**. 2013, 3:152. doi: 10.4172/2165-7025.1000152
7. H Braden, **M Ko**, M Bohmfalk, K Hortick, S Hasson - Gait Speed Improves During Physical Therapy in General Acute Care, Skilled Nursing, and Inpatient Rehabilitation - a Pilot Study, **Journal of Acute Care Physical Therapy**; 2013, Vol. 4 Issue 1, p20.
8. H Braden, S Hilgenberg, R Bohannon, **M Ko**, S Hasson – Gait Speed is limited but Improve over the Course of Acute-care Physical Therapy, **Journal of Geriatric Physical Therapy** 2012;35(3):140-4.

9. **M Ko**, H Lewis, LC Hughes– Walking Speed and Peak Plantar Pressure Distribution during Barefoot Walking in Persons with Diabetes, **Physiotherapy Research International**. 2012 Mar; 17(1):29-35.
10. **M Ko**, M Bishop, AL Behrman– Effects of limb loading on gait initiation in persons with moderate hemiparesis, **Topics in Stroke Rehabilitation**. 2011 May-Jun; 18(3):258-68.
11. **M Ko**-Plantar pressure and gait in patients with diabetes, **Lower extremity review**. 2010;Oct:33-36.
12. Bishop M, Brunt D, Pathare N, **Ko M**, Marjama-Lyons J. Changes in distal muscle timing may contribute to slowness during sit to stand in Parkinsons disease. **Clin Biomech** (Bristol, Avon). 2005 Jan; 20(1):112-7.
13. Brunt D, Woo R, Kim HD, **Ko MS**, Senesac C, Lee S. The effect of Botulinum Toxin Type A on gait of children who are idiopathic toe-walkers: A pilot study. **J Surg Ortho Adv**, 2004 Fall; 13(3):149-55.
14. MD Bishop, **M Ko**, N Pathare, D brunt, J Marjama – Lyons. P Fiolkski, Gait termination and Parkinsonism: A review. **J Kor Acad Univ Tra Phys Ther**. 2003; 10(4):43-59.

Published Abstracts of Peer Reviewed Presentations:

International:

1. **M Ko**, A Galvan, H Andrews – “Skin Temperature and Sensation With Peak Plantar Pressures Of the Foot In Individuals With Type II Diabetes.” **2010 Diabetic Global Conference, Poster presentation**.
2. Bishop MD, Brunt D, Pathare N, **Ko MS**, Marjama-Lyons J, C Kukulka. Effects of age, accuracy and Parkinsons disease on the ability to stop suddenly. **World Confederation for Physical Therapy, Barcelona 2003**.
3. Pathare N, Brunt D, Bishop MB, **Ko MS**, Lyons JM, Smith L. Analysis of sit to stand task in persons with Parkinson’s disease. **World Confederation for Physical Therapy, Barcelona 2003**

National:

1. **M Ko**, CP Da Silva, Y Bae, Dynamic Postural Control in Persons with Hemiparesis during Gait Initiation. **PT 2015: Annual Conference & Exposition of the American Physical Therapy Association, Poster presentation. Submitted.**
2. H Braden, **M Ko**, Gait speed improves with inpatient physical therapy more for those who attain moderate-normal speeds than slow speeds, **PT 2014: Combined Sections Meeting, American Physical Therapy Association, Poster presentation. Accepted.**
3. H Braden, **M Ko**, H Katie, B Maddie – “Does walking speed improve in acute care, skilled nursing, or inpatient rehabilitation?” **PT 2013: Combined Sections Meeting, American Physical Therapy Association, Poster presentation.**
4. H Braden, **M Ko** – “Gait speed in acute care” **PT 2012: Annual Conference & Exposition of the American Physical Therapy Association, Poster presentation.**
5. **M Ko**, YP Chiu, YJ Hung-“ Dynamic postural control in order people with diabetes during gait initiation” **PT 2012: Annual Conference & Exposition of the American Physical Therapy Association, Poster presentation.**
6. **M Ko**, A Franz, G Rickert-“ Effect of Acute Pstural Correction on Plantar Pressures and Gait Characteristics in an Individual with Diabetic Peripheral Neuropathy” **PT 2012: Annual Conference & Exposition of the American Physical Therapy Association, Poster presentation.**
7. **M Ko**, R Vinyard, M Cole-“Dynamic balance control in elders: Sway analysis during gait initiation” **PT 2011: Annual Conference & Exposition of the American Physical Therapy Association, Poster presentation.**
8. **M Ko**, SD Hilgenberg – “Repeated Bilateral Step up and down Training and its Effect on Improving Functional Mobility in a Person with Hemiparesis: A Case Report.” **PT 2010: Annual Conference & Exposition of the American Physical Therapy Association, Poster presentation.**
9. **M Ko**, L Hughes, ML Cordes, T Reyes, A Galvan, H Andrews - “Peak Plantar Pressures in Diabetic vs Non-Diabetic Feet.” **PT 2010: Annual Conference & Exposition of the American Physical Therapy Association, Poster presentation.**
10. **M Ko**, Jungeun Lee-“Bilateral coordination between lower limbs during a repeated step up and down training in the person with stroke.” **PT 2009: Annual Conference & Exposition of the American Physical Therapy Association, Poster presentation.**

11. **M Ko**, M Bishop, A Behrman-Symmetrical limb loading: the immediate effect on gait initiation in persons with hemiparesis-PT **2008: Annual Conference & Exposition of the American Physical Therapy Association, platform presentation.**
12. Jungeun Lee, **M Ko** - Psychosocial adaptation process of Hispanic stroke survivors: Empowerment approach to enhance the quality of life-Education Session Proposal for the **2008 American Counseling Association Annual Conference** in Honolulu, Hawaii; **Project/Research Poster Session.**
13. Yoon SJ, **M Ko** - Effect Of Glucosamine With Chondroitin Sulfate (GCS) for Persons With Knee Osteoarthritis (OA). **The Gerontological Society of America's 59th Annual Scientific Meeting, November, 2006.**
14. Prithvi Shah¹, Jennifer E. Stevens², Arun Jayaraman¹, Neeti C. Pathare¹, Mark Bowden¹, Chetan P. Phadke¹, Preeti M. Nair¹, **Mansoo Ko**¹, Glenn Walter¹, Andrea L. Behrman¹, Krista Vadenborne¹.Effect Of Locomotor Training On Skeletal Muscle Size In Individuals With Incomplete Spinal Cord Injury. **Combined Sections Meeting, American Physical Therapy Association, Feb. 2005.**
15. **Ko MS**, Brunt, Bishop, Pathare, Choi, Lyons. Determinants of toe-clearance during obstacle crossing in persons with Parkinsons disease. **The Annual Conference and Exposition of the American Physical Therapy Association, June 2003**
16. N Pathare, D Brunt, MD Bishop, **MS Ko**, BS Choi, JM Lyons, Effect of velocity on force modulation in persons with Parkinson's disease during gait initiation. **The Annual Conference and Exposition of the American Physical Therapy Association, June 2003**
17. D Brunt, R Woo, HD Kim, MS Ko, C Senesac. The initial effect of Botulinum Toxin Type A on gait in idiopathic toe-walkers. **Gait and Clinical Movement Analysis Society, April 2002.**
18. N Pathare, D Brunt , J Marjama - Lyons, MD Bishop, **M Ko**, T Toole, L Smith. Differentiating characteristics of gait initiation in patients with Parkinson's Disease. **Gait and Clinical Movement Analysis Society, April 2002.**
19. T Toole, D Brunt, E Holton, J Marjama-Lyons, M Bishop, N Pathare, **M Ko**, G Maitland. The immediate effects of loading on gait in Parkinsonism. **Gait and Clinical Movement Analysis Society, April 2002.**

Regional:

1. MD Bishop, D Brunt, J Marjama-Lyons, Tonya Toole, N Pathare, **M Ko**, Lisa Smith. The generation of force during gait termination in Parkinsonism. **Florida Society of Movement Disorders, Oct 2001**
2. Lawless AR, Davis S, Phadke C, Nair P, Bowden M, Woodbury M, Flynn SM, Hannold E, **Ko M**, Senesac C, Behrman AL. Case report: Locomotor training, progression, and outcomes after incomplete spinal cord injury. **Combined Sections Meeting, American Physical Therapy Association, Feb, 2004 - Nashville, Tennessee**

Local:

1. MD Bishop, D Brunt, J Marjama-Lyons, Tonya Toole, N Pathare, **M Ko**, Lisa Smith. The generation of force during gait termination in Parkinsonism. **Graduate Student Forum, University of Florida, 2002**

Non-Peer Reviewed Presentations:

Midwest District Meeting in Texas Physical Therapy Association "Case Report: Locomotor Training using Body Weight Support in a person with stroke", April 16th, 2009

Gait Analysis and foot pressure with Fscan/Walkway, Houston for the **Texas Podiatric Medical Association**, April. 11-13th 2008

Tekscan F-Scan User Workshop at the **Gait & Clinical Movement Analysis Society** in Richmond, VA , April 3rd 2008

Gait Analysis using a plantar pressure Walkway, **South Central Regional ASB** is in Odessa, TX, Feb. 28-March 1st 2008

International Global Forum, "Locomotor training." **Daegu University**, South Korea.2007 June

Funded/In Review Grant Activity:

Internal grant:

Recipient

Funded -\$43,000

A start up package

2006, University of Texas at El Paso

Principal Investigator

Funded -\$5,060

Bilateral Coordination of Speed Dependent Treadmill Training with Body Weight support System for Persons with Hemiparesis

2006-7, University Research Institute Grants

Principal Investigator

Funded -\$5,494

Research Enhancement grant, Electroencephalogram (EEG) Biofeedback Training and Dartfish Video Software

2009-10, Angelo State University

Recipient

Funded -\$2,406

Travel fund – College of Health and Human Services

2009, Angelo State University

Principal Investigator

Funded -\$4,500

Faculty Development and Enrichment Fund Grant, Vicon Motion Analysis System two days on-site training

2009-10, Angelo State University

Principal Investigator

Funded -\$19,185

Research Enhancement Grant, Gait Initiation in Persons with Hemiparesis

2010-11, Angelo State University

Principal Investigator

Funded -\$14,834

Research Enhancement Grant, Effectiveness of gait initiation as a clinical screening tool for identifying the balance deficits in people with diabetes.

2012-13, Angelo State University

Principal Investigator

Funded -\$14,970

Research Enhancement Grant, Does a Back Squat with Toes Forward Cause Muscular Imbalance of the Vastus Medialis Oblique and Vastus Lateralis in Young Adults?

2013-14, Angelo State University

Co- Investigator

Funded -\$7,942

Research Enhancement Grant, The Effects of Strength and Balance Training on Active Ankle Position Sense and Single Leg Standing in Individuals with Ankle Instability.

2014-15, Angelo State University

External grant:

Principal Investigator

Not funded - \$75,000

The Effect of Speed Dependent Body Weight Support Treadmill Training On Return of Functional Ability and Psychological Adaptation among Hispanics Stroke Survivors.

2007, Paso Del Norte Health Foundation

Principal Investigator

Not funded - \$140,000

Interlimb Influence On the Paretic Leg during Repeated Single Limb Flexion Training Among Stroke Survivors.

2008, American Heart Association (South Central Affiliate), Beginning Grant-in-Aid

Co-investigator

Funded -\$167,918

Grant for Gross Motor Laboratory

2008, San Angelo Health Foundation

Principal Investigator

Not funded - \$5,000

Repeated Bilateral Step-up and down Training and its Effect Combined with Body Weight Support Treadmill Training on Improving Weight Shifting on the Paretic Limb in a Person with Hemiparesis

2010, Texas Physical Therapy Foundation Grant

Principal Investigator

Not funded - \$20,000

Does a Back Squat with Toes Forward cause Patello-Femoral Pain?

2013-14, Sandy Kirkley Clinical Outcomes Research Grant.

Co-Investigator

Funded - \$10,000

Object monitoring of Physical activity for depression in elderly women?

2013-14, Laura W.Bush Institute for Women's Health Grant

Principal Investigator

\$25,000 -pending

The effect of HHS on plantar foot pressure distribution as the modified HHS from DoDo

Walking increases the load on the rearfoot.

2014, Company of DoDo Walking

Other Scholarly Products:

Books:

Park Raejun, Ko Mansoo, Therapeutic Modality for Athletics, Young-moon, 2001(published in Korea).

Membership in Scientific/Professional Organizations:

Faculty Partner, American Physical Therapy Association, # 497903, 2010 to present
USA Member, Kinesio® Taping Association, 2011 to present

Consultative and Advisory Positions Held: Grant Reviewer for UK Diabetes

British Diabetic Association
From July to August 2012

Referee for International SportMed Journal
March 2009

Referee for Physiotherapy Theory and Practice
November 2012 - present

Services to the University/College/School on Committees/Councils/Commissions:

Texas Tech University System:

Scientific Advisory Committee member
Angelo State University
2013 – Present

University:

Doctoral committee member
University of Texas at El Paso
2006 – 2008

Graduate committee member
University of Texas at El Paso
2006 – 2008

Carr Student Research Award Committee member
Angelo State University
2008 – 2009

Research Enhancement Committee Member
Angelo State University
2008 - 2010

Student Organization-Martial Art Clubs faculty advisor
Angelo State University
2008 – 2011

Member
Center for Innovation in Teaching & Research Advisory Council
2010 – 2012

Member

SACS Graduate Sub-committee
2011 – present

Member
International Education Committee
2011 – present

Advisor
Korean Student Association
2012 - present

Member
IRB Committee
2012 – present

Faculty Marshals
2012 Fall and 2013 Spring Commencement

College: Strategic Planning Committee
College of Health & Human Services
2008 – present

Graduate Committee Member
College of Health & Human Services
2009 - present

Department: Faculty search committee member
University of Texas at El Paso
2006 – 2008

Enhanced graduate committee member
University of Texas at El Paso
2006 – 2008

Chair of research projects (Master level)
University of Texas at El Paso
2006 – 2008

Academic adviser for MPT students
University of Texas at El Paso
2006 – 2008

Mentor for Research Projects
PT Graduate Students
University of Texas at El Paso
2007 – 2008

Faculty Representative
Texas Physical Therapy Faculty Summit Committee
2010 to 2011

Mentor for Research Projects
PT Graduate Students
Angelo State University
2009 to present

Member, Curriculum Committee
Angelo State University Physical Therapy Program
2012 to present

Member, Academic Committee
Angelo State University Physical Therapy Program
2008 to present

Faculty search committee
Angelo State University Dept of Psychology, sociology, and Social work
2013 Feb -April

Honors and Awards:

Korean Air Force Citation for Leadership and Best Soldier
Korean Air Force
1993

Academic Excellency Scholarship
Physical Therapy, Daegu University, South Korea
1995

Exchange Student, Physical Therapy
University of Iowa
1997

President' s English Speech Contest award (2nd place)
Daegu University, South Korea
1998

Abstract Recognized for Excellence – Research Report (Neurology), Symmetrical limb loading: the immediate effect on gait initiation in persons with hemiparesis
American Physical Therapy Association Annual Conference & Exposition
2008

President's Award for Excellence in Research/Creative Endeavor
Angelo State University
2012

Chancellor's Council Distinguished Research Award
Texas Tech University System
2012

Best Manuscript of the Year Award , *Journal of Acute Care Physical Therapy*,
"H Braden, **M Ko**, M Bohmfalk, K Hortick, S Hasson - Gait Speed Improves During
Physical Therapy in General Acute Care, Skilled Nursing, and Inpatient Rehabilitation
- a Pilot Study, **Journal of Acute Care Physical Therapy**;2013, Vol. 4 Issue 1, p20.
2014 to 2015

Continuing Education Attended within last 5 years:

Meta Analysis Concepts and Application Workshop, New York, May 5-7, 2014
Introduction to Meta Analysis, Online Course, November 29, 2013 to January 3, 2014
Gross Dissection and Kinesiology, Milwaukee, WI, July 10-13, 2013
6-Day Intensive Human Dissection Workshop, San Francisco, CA, April 11-16, 2011
Diagnosis and Treatment of Movement impairment Syndromes, Mar 25-26, 2011
Functional Orthopedics II (presented by the Institute of Physical Art, Inc.) July 15th -18th , 2010
Kinesio Taping level 3 training, Feb 27th , 2010
Kinesio Taping level 1 and 2 training (fundamental and advanced techniques), Nov 13th-14th , 2009
Electroencephalogram (EEG) Biofeedback training, June 25-28, 2009
Electroencephalogram (EEG) fundamental training, March 16-20, 2009
Differential Diagnosis and Treatment of Mechanical Hip Pain, Oct 25, 2008
Orthopedic Evaluation Skills for Direct Access Practice, Oct 24, 2008
Neural Tension Provocation and Testing, April 26-27, 2008
Proprioceptive Neuromuscular Facilitation (PNF) Basic, Dec 07-10, 2006

Previous Courses Taught/Coordinated

University of Texas El Paso (2007-2008)

DRSC 5389, Research Method
DRSC5496, Medical Kinesiology and Movement Science
PT 5412, Neurorehabilitation II
PT 5150, Independent Study
PT 5123, Neurorehabilitation II
PT 5226, Designing and Conducting Research in Physical Therapy
PT 5256, Research Project II

Angelo State University (2009 -2011)

PT 6633, Motor Development and Enhancement Throughout the Life Span, Spring 2009
PT 6740, Neurosensory Sys Prob I, Fall 2009
PT 5572, Biomechanical Analysis of Movement, Spring 2009
PT 7460, Exam & Mgt of Multi-Sys Prob, Summer II 2009, 2010
PT 7665, Neuromuscular Exam & Mangement, Fall 2011

Current Teaching Responsibilities in the Entry-level Physical Therapy Program (in sequence by term):

PT 7710, Clinical Anatomy, summer, Year 1

PT 7330, Biomechanical Relationships, fall, Year 1

PT 7241, Clinical Research for Physical Therapy, spring, Year 1

PT 7344, Evidence Based Practice Seminar III, spring, year 3