

Sarah J Gilliland, PT, DPT, MA, CSCS
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Education

Ph.D. Education

anticipated completion 2015

M.A. Education

March 2013

University of California, Irvine

Focus area: Learning, Cognition and Development; Physical Therapy Education

Doctor of Physical Therapy

August 2008

Chapman University, Orange, CA

Award for Academic Excellence 2008

Award for Volunteer Service 2008

Wilkinson College graduate fellowship 2005-2006

BA Summa Cum Laude Human Performance and Health Science

May 1998

Rice University, Houston, TX

Elected *Phi Beta Kappa* honor society

Emphasis on sports medicine and exercise physiology

Teaching Experience

Chapman University Doctor of Physical Therapy Program, Orange, CA

Clinical Assistant Professor

August 2013 - present

Instructor/Clinical Instructor

August 2008 – August 2013

- Primary teaching responsibilities:
 - Functional Human Anatomy Laboratory and Lecture
 - Functional Human Neuroanatomy Laboratory
 - Biomechanics of Human Movement
 - Kinesiological Motion Analysis
 - Complementary and Alternative Medicine and Wellness
 - Advanced Patient/Client Management
 - Clinical Pathology Neurology
- Laboratory instructor for:
 - General Medical Practice Management
 - Neurological Practice Management
 - Physical Agents

Human Anatomy and Human Neuroanatomy Graduate Assistant

July 2006 – August 2008

University of California, Irvine

Teaching Assistant

January – June 2011

- Classroom Interactions (math and science)
- Cognition and Learning in Educational Settings

Course Reader

September 2010-December 2010

- Issues in K-12 Education

Castilleja School, Palo Alto, CA

March 1998 - June 2003

- Upper School Math and Physics Instructor
- Ninth Grade Class Advisor; Triathlon Team Founder and Coach

Publications (Peer Reviewed)

Gilliland SJ. Clinical Reasoning in first- and third-year physical therapist students. *Journal of Physical Therapy Education*. 2014; 28: 64-80.

Nessler JA, Gilliland S. Kinematic analysis of side-by-side stepping with intentional and unintentional synchronization. *Gait and Posture*. 2010; 31:527-529.

Nessler JA, DeLeone C, Gilliland S. Nonlinear time series analysis of knee and ankle kinematics during side-by-side treadmill walking. *Chaos*. 2009; 19:026104.

Nessler JA, Gilliland S. Interpersonal synchronization during side-by-side treadmill walking is influenced by leg length differential and sensory feedback. *Human Movement Science*. 2009; 28:772-785.

Manuscripts in Preparation

Gilliland SJ. Physical therapist students' conceptualizations of physical therapy practice. Revised manuscript submitted for review with *Journal of Physical Therapy Education*.

Gilliland SJ. The development of physical therapist students' diagnostic reasoning: A longitudinal study. Manuscript in preparation.

Peer-Reviewed Presentations and Posters

Gilliland SJ, Fischer C. Fixing, building or healing. Physical therapist students' perceptions of practice. Poster presented at APTA Combined Sections Meeting; February 2014, Las Vegas NV.

Gilliland SJ. Supporting students in becoming self-directed learners. Poster presented at APTA Educational Leadership Conference; October 2013, Portland OR.

Gilliland SJ. A longitudinal study of the development of clinical reasoning in physical therapist students. Poster presented at: APTA Combined Sections Meeting; January 2013, San Diego, CA.

Gilliland SJ. Physical therapist students' perspectives on professional competence. Poster presented at: APTA Annual Conference; June 2012; Tampa, FL.

Gilliland SJ. An exploratory study of clinical reasoning in physical therapy students. Poster presented presentation at: APTA Combined Sections Meeting; February 2012; Chicago, IL.

Gilliland SJ, Nessler JA. Entrainment during side-by-side treadmill walking is influenced by interpersonal leg length difference. Poster presented at: APTA Annual Conference; June 2009; Baltimore MD.

Gilliland SJ, Nessler JA. Gait entrainment during side-by-side treadmill walking. Platform presentation at: Southern California Conference on Biomechanics; April 2008; Thousand Oaks, CA.

Awards/Grant Activity

<u>Promotion of Doctoral Studies II (PODS II) Scholarship</u>	2014-2015
<ul style="list-style-type: none">Scholarship from the Foundation for Physical Therapy	
<u>APTA Education Section Adopt-a-Doc Scholarship</u>	2014
<ul style="list-style-type: none">Dissertation study funding	
<u>UCI School of Education Stipend Award</u>	2013-2014
<ul style="list-style-type: none">Funding award for exceptional progress in UCI PhD Program	
<u>Sponsor for Chapman University Faculty Sponsored Student Research Grant</u>	April 2013
<ul style="list-style-type: none">Chelsea Fischer: The Development of Physical Therapy Students' Conceptual Perspectives on the Practice of Physical Therapy	
<u>Promotion of Doctoral Studies I (PODS I) Scholarship</u>	2012-2013
<ul style="list-style-type: none">Scholarship from the Foundation for Physical Therapy	
<u>Training in Research Fellowship, UC Irvine</u>	2011-2013
<ul style="list-style-type: none">Graduate student researcher for undergraduate Minor in Education program evaluation. Funded through School of Education Block grant	
<u>Pittsburg-Marquette Challenge Award</u>	2011 - 2012
<ul style="list-style-type: none">Promotion of Doctoral Studies I Scholarship from the Foundation for Physical Therapy	
<u>Award for Academic Excellence</u>	May 2008
<ul style="list-style-type: none">Chapman University Doctor of Physical Therapy Program	
<u>Award for Volunteer Service</u>	May 2008
<ul style="list-style-type: none">Chapman University Doctor of Physical Therapy Program	
<u>IACCC Scholarship Recipient</u>	April 2008
<ul style="list-style-type: none">Presented for excellence in clinical performance and community involvement	
<u>Chapman University Faculty Sponsored Student Research Grant</u>	November 2007
<ul style="list-style-type: none">Grant to support project studying morphological quantification in an animal model of focal hand dystonia	
<u>Wilkinson College Graduate Fellowship</u>	2005-2006
<ul style="list-style-type: none">Support for first-year entry-level physical therapy studies	
<u>Castilleja School Faculty Professional Development Summer Grant</u>	June 2000
<ul style="list-style-type: none">Grant to support curriculum development for enrichment activities in advanced algebraIncluded attendance at Phillips Exeter Math and Technology Conference	
<u>Castilleja School Faculty Professional Development Summer Grant</u>	June 1999
<ul style="list-style-type: none">Grant to support development of 9th grade honors math curriculum	

Research

<u>Professional Development and Clinical Reasoning in Physical Therapy Students</u>	2011 – present
This study investigates how physical therapy students conceptualize the practice and role of the physical therapist and how these perspectives change through the students' educational experiences. My dissertation study builds on this work examining the relationship between physical therapy students' conceptualizations of practice and their clinical reasoning and decision-making.	

Educational Program Evaluation September 2011 – present

I am assisting Judith Sandholtz, PhD in completing a program evaluation of the undergraduate Minor in Education at UC Irvine. This project entailed development of learning outcomes, development of methods of assessment and preliminary assessment of learning outcomes. My work on this is funded in part through a Training in Research Fellowship from UC Irvine.

Clinical Reasoning in Physical Therapy Students October 2010 - present

My current research explores problem solving strategies of entry-level physical therapy students, and the impact of physical therapy coursework on the development of clinical reasoning skills.

Gait entrainment during side-by-side treadmill walking November 2007 – December 2009

I worked with Dr. Jeff Nessler at CSUSM to investigate the effects of sensory input, leg length, force production, and energy consumption in intentional and unintentional synchronization of side-by-side walking

Exercise and education for stroke survivors November 2007 – May 2010

I collaborated with the outpatient neurological physical therapy department at Casa Colina Center for Rehabilitation to implement and study the effects of a group exercise and education program on physical abilities, health behaviors and perceived disability in stroke survivors

Neuroscience Histological Quantification May 2007 – August 2008

I worked on a study of morphological changes in somatosensory cortex in an animal model of focal hand dystonia. My training on this project included attendance at a confocal stereology workshop affiliated with the Society for Neuroscience annual meeting. Part of this project was supported through a Chapman University sponsored grant.

Non-Peer-Reviewed Invited Presentations

Careers in Physical Therapy May 2014

- Invited speaker Alpha Epsilon Delta Honor Society, UC Irvine

Exercise and Fitness for Older Adults December 2010, 2011 and 2012

- Invited guest lecturer, Department of Food Science, Chapman University

Neuroanatomy and Functional Plasticity February 2009

- *Phi Beta Kappa* Northern CA Association annual Asilomar retreat

Lab Instructor: Radiology in Rehabilitation June 2008

- Pre-Conference course: APTA Annual Conference, San Antonio, TX

Casa Colina Stroke Class November 2007

- Casa Colina Center for Rehabilitation, Pomona, CA

Neuroscience and Acute Rehabilitation Post CVA February 2007

- Kaiser, Woodland Hills, CA

Physiology and Functional Fitness February 2005

- *Phi Beta Kappa* Northern CA Association annual Asilomar retreat

Physical Therapy Clinical Experience

Newport Medical and Wellness/Wellness by Design PT, Costa Mesa, CA

Per Diem Physical Therapist

August 2011 - present

Physical Therapist

October 2008 - September 2010

Physical Therapy Contractual Affiliation

July-August 2008

Lavayen Physical Therapy, Mission Viejo, CA

May-July 2008

Physical Therapy Clinical Affiliation Casa Colina Center for Rehabilitation , Pomona, CA	August-November 2007
Physical Therapy Clinical Affiliation Spine and Sport Physical Therapy , San Juan Capistrano, CA	March-April 2007
Physical Therapy Clinical Affiliation Kaiser Woodland Hills , Woodland Hills, CA	January-February 2007
Physical Therapy Clinical Affiliation	

Licensure

- Physical Therapist: State of California (#35135)

Certifications

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|---|---------------------|
| • USA Diving Safety Certified Coach | May 2014 - present |
| • APTA Credentialed Clinical Instructor | July 2010 - present |
| • Certified Strength and Conditioning Specialist (CSCS) | 2004 - present |
| • USA Triathlon Level I Coaching Certification | 2003 - present |
| • American Heart Association BLS for healthcare providers (CPR) | valid to 2015 |
| • Red Cross Standard First Aid | valid to 2016 |

Professional Association Memberships

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| • American Association of Anatomists | February 2007- present |
| • American Physical Therapy Association
Geriatrics, Research, Education, and Sports sections
Neurology and Orthopedics Sections | August 2005 - present

2005 - 2008 |
| • National Strength and Conditioning Association | February 2003 - present |
| • National Council of Teachers of Math | 1999 - 2003 |

Volunteer and Service Work

Special Olympics Southern CA	2013 - present
Injury Prevention Consulting for Mission Viejo Nadadores Diving Team	2013 - present
PT Club Co-Advisor, Chapman University	2012 - present
Chapman University APTA Advocate	2012 - present
Pro-bono physical therapy and wellness services	2010 - present
Chapman University: Student Research Supervision	2008 - 2010
Lab Instructor: Kaiser Hand Fellowship	January 2009
Special Olympics Southern CA	June 2007
Chapman University DPT Class of 2008 Class Representative	September 2005-August 2008
APTA/CPTA volunteer	September 2005 - 2008
Co-Chair of Run for the Community 2003	February - September 2003

Selected Continuing Education

- APTA Educational Leadership Conference, Kansas City, MO: October 2014
- APTA Combined Sections Meeting, Las Vegas, NV: February 2014
- APTA Educational Leadership Conference, Portland, OR: October 2013
- CPTA Annual Conference, Pasadena, CA: September 2013
- APTA Annual Conference, Salt Lake City, UT: June 2013
- The National Physical Therapy Exam, Workshop for Faculty; Pre-Conference Course, APTA Annual Conference, Salt Lake City, UT: June 2013
- Collaborating Across Borders, Vancouver, BC: June 2013

- “Don’t Pass Go: Update on the Laws and Regulations Affecting Physical Therapy Practice;” Orange County APTA: February 2013
- Combined Sections Meeting of APTA, San Diego, CA: January 2013
- APTA Educational Leadership Conference, Greenwich, CT: October 2012
- “Assessment and Treatment of the Concussed Athlete;” Orange County APTA: September 2012
- APTA Annual Conference, Tampa, FL: June 2012
- APTA Combined Sections Meeting, Chicago, IL: February 2012
- “California Ethics, Laws and Regulations; Orange County APTA: October 2011
- “Injury Management Associated with Running, Jumping, and Cutting Sports;” Sports Physical Therapy Seminars: September 2011
- “Physical Therapy and Exercise for People with Parkinson’s Disease: High Intensity Training Including LSVT Big;” OC APTA: September 2011
- Claremont Evaluation Workshops (Evaluation and Applied Research); Claremont Graduate University, August 2011
- “Physical Therapy for Pelvic Pain: Understanding the Musculoskeletal Connection;” OC APTA: May 2011
- “Exercise and Physical Activity in Aging Conference;” Geriatric Section APTA, Indianapolis, IN: July 2010
- APTA Clinical Instructor Education and Credentialing Course, San Diego, CA: July 2010
- PT-CPI Self Training Course; APTA Learning Center: May 2010
- APTA Combined Sections Meeting, San Diego, CA: February 2010
- APTA Annual Conference, Baltimore, MD: June 2009