

## CURRICULUM VITAE

**Sara P. Gombatto**  
**School of Exercise and Nutritional Sciences**  
**San Diego State University**  
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### EDUCATION

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<b>Washington University in St. Louis</b> Ph.D.	August, 2007 Movement Science
<b>Ithaca College</b> M.S., P.T.	August, 1999 Physical Therapy
<b>Ithaca College</b> B.S.	May, 1998 Clinical Science

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### TEACHING POSITIONS

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<b>Associate Professor</b> San Diego State University	Fall 2017-present Doctor of Physical Therapy Program
<b>Assistant Professor</b> San Diego State University	Fall 2013-present Doctor of Physical Therapy Program
<b>Assistant Professor</b> , tenure awarded Nazareth College	Fall 2007-Summer 2013 Physical Therapy Department

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### RESEARCH POSITIONS

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<b>Visiting Research Scientist, Co-Investigator</b> University of California San Diego	Fall 2013-present Departments of Radiology and Orthopaedics
<b>Research Assistant</b> Washington University in St. Louis	Fall 2002-Summer 2007 Department of Physical Therapy

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### CLINICAL POSITIONS

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<b>Physical Therapist</b> , part-time Clover Physical Therapy (Rochester, NY)	2011-2013 Outpatient Physical Therapy Clinic
<b>Physical Therapist</b> , part-time Aquatic Fitness Physical Therapy (St. Louis, MO)	2002-2003 Outpatient Physical Therapy Clinic
<b>Physical Therapist</b> , full-time Finger Lakes Physical Therapy (Ithaca, NY)	2001-2002 Outpatient Physical Therapy Clinic
<b>Physical Therapist</b> , full-time ProCare Physical Therapy (Cortland, NY)	1999-2001 Outpatient Physical Therapy Clinic

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## PROFESSIONAL LICENSURE

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California, Physical Therapy License # PT291575 (July 15, 2016-present)  
New York State, Physical Therapy License # 020896-1 (2000-present)  
Missouri, Physical Therapy License # 2002016788 (2002-2008)

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## SCHOLARSHIP

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### Refereed Journal Articles †student co-authors

1. Tuttle LJ, Fasching J, Keller A, Patel M, Saville C, Schlaff R, Walker A, Mason M, **Gombatto SP**: Non-invasive Treatment for Postpartum Diastasis Recti Abdominis. *Journal of Women's Health Physical Therapy*, accepted December 22, 2017. †
2. Mitchell K, Porter M, Anderson L, Phillips C, Arceo G, Montz B, Levy S, **Gombatto SP**: Differences in lumbar spine and lower extremity kinematics in people with and without low back pain during a step-up task: a cross-sectional study. *BMC Musculoskeletal Disorders*, 18(1): 1-9, 2017. (PMID: 28841866) †
3. Farrokhi S, Mazzone B, Schneider M, **Gombatto SP**, Highsmith J, Hendershot BD: The Biopsychosocial Correlates of Chronic Low Back Pain after Lower Limb Amputation. *Medical Hypotheses*, 108:1-9, 2017. (DOI: 10.1016/j.mehy.2017.07.030)
4. Flippin MA, Chen J, Harris J, Paxton E, Fithian D, Ward SR, **Gombatto SP**: Effect of body mass index on patient outcomes of surgical interventions for the lumbar spine. *Journal of Spine Surgery*, 3(3): 349-357, 2017. (PMID: 29057342)
5. Hernandez A, Gross K, **Gombatto SP**: Lumbar spine and lower extremity kinematics during a step down functional task in people with and people without low back pain. *Clinical Biomechanics*, May; 47:46-52, 2017. (PMID: 28600994) †
6. **Gombatto SP**, D'Arpa N, Landerholm S, Mateo C, O'Connor R, Tokunaga J, Tuttle L: Differences in kinematics of the lumbar spine and lower extremities between people with and without low back pain during the down phase of a pickup task, an observational study. *Musculoskeletal Science and Practice (formerly Manual Therapy)*, April; 28: 25-31, 2017. (PMID: 28171775) †
7. Berry DB, Rodriguez-Soto A, **Gombatto SP**, Palombo L, Chung C, Jensen A, Kelly KR, Ward SR: Lumbar spine postures in marines during simulated operational positions. *Journal of Orthopaedic Research*, Jan 4, 2017. (PMID: 28052435). †
8. Shahidi B, Parra C, Berry DB, Hubbard JC, **Gombatto SP**, Zlomislic V, Allen RT, Hughes-Austin J, Garfin S, Ward SR: Contribution of lumbar spine pathology and age to paraspinal muscle size and fatty infiltration. *Spine*, 42(8): 616-623, 2017. (PMID: 27517512)
9. Mazzone B, Wood R, **Gombatto SP**: Spine kinematics during prone extension in people with and without low back pain and among classification-specific low back pain subgroups, *Journal of Orthopaedics and Sports Physical Therapy*, 46(7):571-579, 2016.
10. **Gombatto SP**, Brock T, DeLork A, Jones G, Madden E, Rinere C: Lumbar spine kinematics during walking in people with and people without low back pain, *Gait & Posture*, 42(4):539-544, 2015. †
11. Berry DB, Rodríguez-Soto AE, Tokunaga JR, **Gombatto SP**, Ward SR: An endplate-based joint coordinate system for measuring kinematics in normal and abnormally shaped lumbar vertebrae. *Journal of Applied Biomechanics*, 31(6):499-503, 2015. †
12. Spoto MM, **Gombatto SP**: Diagnostic labels assigned to patients with orthopedic conditions and the influence of the label on selection of interventions – a survey of orthopedic clinical specialists. *Physical Therapy Journal*, 94(6):776-91, 2014.
13. Scholtes SA, Norton BJ, **Gombatto SP**, Van Dillen LR: Variables associated with performance of an active limb movement following within-session instruction in people with and people without low back pain. *BioMed Research International*, Article ID# 867983, <http://dx.doi.org/10.1155/2013/867983>, 2013.

14. **Gombatto SP**, Norton BJ, Sahrman SA, Strube MJ, Van Dillen LR: Factors contributing to lumbar region passive tissue characteristics in people with and people without LBP. *Clinical Biomechanics*, 28(3):255-261, 2013.
15. Scholtes SA, **Gombatto SP**, Van Dillen LR: Differences in lumbopelvic motion between people with and people without low back pain during two lower limb movement tests. *Clinical Biomechanics*, 24(1):7-12, 2009.
16. **Gombatto SP**, Klaesner JW, Norton BJ, Minor SD, Van Dillen LR: Validity and reliability of a system to measure passive tissue characteristics of the lumbar region during trunk lateral bending in people with and people without low back pain. *Journal of Rehabilitation Research and Development*, 45(9):1415-1430, 2008.
17. **Gombatto SP**, Scholtes SA, Norton BJ, Van Dillen LR: Differences in symmetry of lumbar region passive tissue characteristics between people with and people without low back pain. *Clinical Biomechanics*, 23(8):986-95, 2008.
18. Van Dillen LR, Bloom NJ, **Gombatto SP**, Susco TS: Hip rotation range of motion in people with and without low back pain who participate in rotation related sports. *Physical Therapy in Sport*, 9(2):72-81, 2008. † *Impact Factor* (2008): 0.612
19. **Gombatto SP**, Collins DR, Sahrman SA, Engsberg JR, Van Dillen LR: Pattern of lumbar region movement during trunk lateral bending in two subgroups of people with low back pain. *Physical Therapy*, 87(4):441-454, 2007.
20. Van Dillen LR, **Gombatto SP**, Collins DR, Engsberg JR, Sahrman SA: Symmetry in timing of hip and lumbopelvic motion during hip lateral rotation in two different groups of people with low back pain. *Archives of Physical Medicine and Rehabilitation*, 88:351-360, 2007.
21. **Gombatto SP**, Collins DR, Sahrman SA, Engsberg JR, Van Dillen LR: Gender differences in pattern of hip and lumbopelvic rotation in people with low back pain. *Clinical Biomechanics*, 21(3):263-271, 2006.

#### **Refereed Conference Papers** †student co-authors

1. Paladugu P, Hernandez A, Gross A, Su Y, Neseli A, **Gombatto SP**, Moon K, Ozturk Y: "A sensor cluster to monitor body kinematics," 2016 IEEE 13th International Conference on Wearable and Implantable Body Sensor Networks (BSN), IEEE, 212-217, 2016. †

#### **Refereed Conference Abstracts and Presentations** (PO=poster, PL=platform)

1. Gross K, Schneider K, Hernandez A, Paladugu P, Sathyamoorthy K, Moon K, Ozturk Y, **Gombatto SP**: "Reliability and validity of a low-profile mobile sensor system for ecological monitoring of lumbar spine posture and movement", presented at 2018 Combined Sections Meeting, American Physical Therapy Association, New Orleans, LA. † (PO)
2. Nalbandian S, Medicke M, Lovell B, Bancells K, Ingram N, Ibarra S, Abdenour T, Rosenthal M, **Gombatto SP**, "High flexion movement pattern associated with patellar tendinopathy and low back pain in NCAA division I men's basketball players – a case series," *J Orthop Sports Phys Ther* 2018;48(1):A249-250. 2018 Combined Sections Meeting, American Physical Therapy Association, New Orleans, LA. † (PO)
3. Weisenberger K, Martens M, Fellow J, Beerbaum S, Ingram N, Ibarra S, Abdenour T, Rauh M, **Gombatto SP**, "Knee varus movement pattern associated with history of lateral ankle sprains in NCAA division I men's basketball players – a case series," *J Orthop Sports Phys Ther* 2018; 48(1):A271. 2018 Combined Sections Meeting, American Physical Therapy Association, New Orleans, LA. † (PO)
4. McCabe S, O'Brien B, Ruiz F, Cozine E, **Gombatto S**, Rauh MJ, "Sport specialization in high school cross-country runners." *J Orthop Sports Phys Ther* 2018;48(1):A49. 2018 Combined Sections Meeting, American Physical Therapy Association, New Orleans, LA. (PL)

5. Berry DB, Rodriguez-Soto AE, **Gombatto SP**, Shahidi B, Chung C, Ward SR: “Lumbar Spine Postures in Marines During Simulated Operational Positions,” Orthopedic Research Society Annual Meeting, San Diego, CA, March 2017. (PL)
6. Mazzone B, Stewart J, **Gombatto SP**: “Lumbopelvic Kinematics During Forward Bending in People With and Without Low Back Pain,” Orthopedic Research Society 2017 Annual Meeting, San Diego, CA, March 2017. (PO)
7. Mitchell K, Porter M, Anderson L, Arceo G, Phillips C, Montz B, **Gombatto SP**: “Differences in Lumbar Spine and Lower Extremity Kinematics in People With and Without Low Back Pain During a Functional Step-Up Task,” *J Orthop Sports Phys Ther* 2017;47(1):A19. 2017 Combined Sections Meeting, American Physical Therapy Association, San Antonio, TX. (PL by invitation)†
8. Carper E, Beachy G, Akau C, **Gombatto S**, Rauh M: “Incidence of Injury in Interscholastic Basketball Players: A 25-year Longitudinal Study,” *J Orthop Sports Phys Ther* 2017;47(1):A171-172. 2017 Combined Sections Meeting, American Physical Therapy Association, San Antonio, TX. (PO)†
9. Schlaff R, Saville C, Patel M, Walker A, Keller A, Fasching J, Mason-Cover M, **Gombatto SP**, Tuttle L: “Postpartum Diastasis Recti Abdominis: Treatment and Functional Implications,” presented at APTA Combined Sections Meeting, San Antonio, TX, February 2017. (PO)†
10. Stambaugh JR, Rodriguez-Soto A, Berry D, Parra C, **Gombatto SP**, Kelly K, Ward S: “Structural Adaptations of Paraspinal Musculature in Active-Duty Marines With Intervertebral Disc Degeneration,” Society of Military Orthopedic Surgeons, December 2016.†
11. Hernandez A, Gross K, **Gombatto SP**: “Differences in lumbar spine and lower extremity kinematics between people with and without low back pain during a step down functional task,” presented at the American Society of Biomechanics (ASB) Annual Conference, Raleigh, NC, August 2016. (PO)†  
\*Hernandez was awarded a competitive ASB Diversity Award to fund her conference attendance.
12. **Gombatto SP**, D’Arpa N, Landerholm S, Mateo C, O’Connor R, Tokunaga J: “Differences in kinematics of the lumbar spine and lower extremities between people with and without low back pain during a pick up task.” *Journal of Orthopaedic and Sports Physical Therapy*, 46(1): A91-92, 2016. Presented by students at APTA Combined Sections Meeting, Anaheim, CA, February 2016. (PO)†
13. Arceo G and **Gombatto SP**: “Prevalence of impairments, pain, and symptom change with impairment modification using a movement system impairment examination for low back pain,” *Journal of Orthopaedic and Sports Physical Therapy*, 46(1): A60-61, 2016. Presented by Arceo at APTA Combined Sections Meeting, Anaheim, CA, February 2016. (PO)†
14. Flippin MA, Chen J, Harris J, Fithian D, Ward SR, **Gombatto SP**: “Effect of body mass index on intraoperative outcomes and complications of instrumented lumbar spine surgery,” presented by Flippin at North American Spine Society Conference, Chicago, IL, October 2015. (ePO)
15. Rubin JL, Berry DB, Ward SR, **Gombatto SP**: “Lumbar spine kinematics for end-range trunk positions in healthy individuals using upright MRI,” presented at American Society of Biomechanics Conference, Columbus, OH, August 2015. (PO)†
16. Flippin MA, Chen J, Harris J, Fithian D, Ward SR, **Gombatto SP**: “Effect of obesity on complications of spinal surgery related to mechanical factors including re-operation rate and adjacent segment disease,” presented by Flippin at International Society for the Study of the Lumbar Spine Meeting, San Francisco, CA, June 2015. (PL)
17. Rodriguez-Soto AE, Stambaugh J, Su J, Berry D, **Gombatto SP**, Kelly K, Ward SR: “Spinal Muscle Quality Changes in Physically Active Individuals with Disc Degeneration,” presented by Rodriguez-Soto at Orthopaedic Research Society, Las Vegas, NV, March 2015. (PO)†
18. Berry DB, Rodríguez-Soto AE, Tokunaga JR, **Gombatto SP**, Ward SR: “An Endplate-Based Joint Coordinate System for Measuring Kinematics in Normal and Abnormally Shaped Lumbar

- Vertebrae,” presented by Berry at Orthopaedic Research Society, Las Vegas, NV, March 2015. (PO)†
19. Mazzone BM, Wood RW, **Gombatto SP**: “Spine Kinematics During Prone Extension in People With and Without Low Back Pain,” *Journal of Orthopaedic and Sports Physical Therapy*, 45(1): A108-109, 2016. Presented at APTA Combined Sections Meeting, Indianapolis, IN, February 2015. (PO)
  20. **Gombatto SP**, Brock T, DeLork A, Jones G, Madden E, Rinere C, Wood R: “Lumbar Spine Kinematics During Walking in People With and People Without Low Back Pain,” *Journal of Orthopaedic and Sports Physical Therapy*, 45(1): A120, 2016. Presented at APTA Combined Sections Meeting, Indianapolis, IN, February 2015. (PO) †
  21. Berry DB, Rodriguez-Soto AE, **Gombatto SP**, Jaworski R, Kelly KR, Ward SR: “Lumbar Spine Postures in Marines During Simulated Operational Conditions,” Presented by Berry at World Congress of Biomechanics, Boston, MA, June 2014. (PO) †
  22. **Gombatto SP**, Ellis M, Joyce C, Linske, G Muehlenkamp P: “Validity and reliability of a multi-segmental lumbar spine model using a 3D motion analysis system.” Presented in Research Section, at APTA Combined Sections Meeting, San Diego, CA, February 2013. (PO) †
  23. Chau C, **Gombatto SP**, Flannery J, Mancuso K, Merrill-Blew C, Pilc C: “Locomotion and Skilled Locomotion in Typically Developing Five- to Six-Year-Old Children II: Obstacle Walking.” Presented by Chau at Society for Neuroscience Conference, New Orleans, LA, 2012. (PO) †
  24. Wood R, **Gombatto SP**: “Physical Therapy management of a patient with chronic low back pain using the movement system approach: clinical, laboratory, and self-report measures.” *Journal of Orthopaedic and Sports Physical Therapy*, 42(1):A83, 2012. (PO)
  25. **Gombatto SP**, Sahrman SA, Scholtes SA: “Hip and Low Back Interactions in Patients with Low Back Pain.” Program Presentation at APTA Combined Sections Meeting, New Orleans, LA, February 2011.
  26. **Gombatto SP**, Wood R: “Relationship between low back pain classifications using three different systems – pilot clinical data.” Presented at NYPTA Conference, 2011. (PO)
  27. **Gombatto SP**, Fuller MA, Lewis DJ, Jamieson CM, Zanghi LM: “Differences in lower lumbar region rotation between people with and without low back pain during walking – a pilot study,” *Journal of Orthopaedic and Sports Physical Therapy*, 41(1):A60, 2011. Presented at APTA Combined Sections Meeting, New Orleans, LA, February 2011. (PO)†
  28. **Gombatto SP**, Kroll ME, McCallum KE, Schiffer MN: “Relationship between lumbar region kinematics during a clinical test and a functional activity in people with and without low back pain,” presented at Canadian Society of Biomechanics, Kingston, ON, June 2010. (PO) †
  29. Scholtes SA, Norton BJ, Van Dillen LR, **Gombatto SP**: “Prediction of ability to modify lumbopelvic motion in people with and people without low back pain,” *Journal of Orthopaedic and Sports Physical Therapy*, 40(1):A36, 2010. (PO)
  30. Scholtes SA, Norton BJ, **Gombatto SP**, Van Dillen LR: “The relationship between lumbopelvic motion displayed during active and passive hip lateral rotation in people with and people without low back pain,” *Journal of Orthopaedic and Sports Physical Therapy*, 40(1):A82, 2010. (PO)
  31. Miller-Spoto M, **Gombatto SP**: “Integration of joint mobilization/manipulation and the diagnosis and treatment of movement system impairments of the lumbar spine.” Program Presentation at APTA Combined Sections Meeting, Las Vegas, NV, February 2009.
  32. **Gombatto SP**, Norton BJ, Sahrman SA, Strube MJ, Van Dillen LR: “Factors predicting lumbar region passive elastic energy in people with and people without low back pain,” *Journal of Orthopaedic and Sports Physical Therapy*, 39(1):A92-93, 2009. Presented at APTA Combined Sections Meeting, Las Vegas, NV, February 2009. (PO)
  33. **Gombatto SP**, Scholtes SA, Norton B, Van Dillen LR: “Differences in passive tissue characteristics of the lumbar region during trunk lateral bending between people with and people without low back

- pain,” *Journal of Orthopaedic and Sports Physical Therapy*, 38(1):A63, 2008. Presented at APTA Combined Sections Meeting, Nashville, TN, February 2008. (PO)
34. Scholtes SA, **Gombatto SP**, Van Dillen LR: “Gender Differences in Timing of Lumbopelvic Movement During the Clinical Test of Active Knee Flexion,” *Journal of Orthopaedic and Sports Physical Therapy*, 38(1):A69, 2008. (PO)
  35. **Gombatto SP**, Klaesner JW, Norton BJ, Scholtes SA, Van Dillen LR: “Reliability and validity of a system to measure in vivo passive stiffness and extensibility of the trunk in people with and without low back pain,” Presented at World Congress for Low Back and Pelvic Pain, Barcelona, Spain, November 2007. (PO)
  36. Scholtes SA, **Gombatto SP**, Van Dillen LR: “A System for Measuring Passive Tissue Stiffness and Extensibility of the Hip,” *Journal of Orthopaedic and Sports Physical Therapy*, 37(1):A61, 2007. (PO)
  37. **Gombatto SP**, Zou D, Sahrman SA, Van Dillen LR: “Trunk passive stiffness with trunk lateral bending in two subgroups of people with low back pain,” *Journal of Orthopaedic and Sports Physical Therapy*, 36(1):A39, 2006. Presented at APTA Combined Sections Meeting, San Diego, CA, February 2006. (PO)
  38. Bloom NJ, **Gombatto SP**, Susco TJ, Van Dillen LR: “Hip rotation range of motion in people with and without low back pain who participate in rotation-related leisure activities,” *Journal of Orthopaedic and Sports Physical Therapy*, 36(1):A30, 2006. (PO)
  39. Scholtes SA, **Gombatto SP**, Sahrman SA, Van Dillen LR: “A pilot study of the effect of impairment-based exercise on kinematics with trunk lateral bending in people with low back pain,” *Journal of Orthopaedic and Sports Physical Therapy*, 36(1):A56-A57, 2006. (PO)
  40. **Gombatto SP**: “Differences in lumbar motion during trunk lateral bending between people in two low back pain classifications.” Presented at Marilyn Gossman Seminar, APTA Combined Sections Meeting, New Orleans, LA, February 2005. (PL)
  41. **Gombatto SP**, Collins DR, Sahrman SA, Engsborg JR, Lenke LG, Van Dillen LR: “Gender differences in coordination of pelvic and hip motion in people with and without low back pain,” *Journal of Orthopaedic and Sports Physical Therapy*, 34(1):A49, 2004. Presented at APTA Combined Sections Meeting, Nashville, TN, February 2004. (PO)
  42. **Gombatto SP**, Collins DR, Sahrman SA, Engsborg JR, Lenke LG, Van Dillen LR: “Symmetry in timing of pelvic and hip motion during hip lateral rotation in individuals with low back pain,” *Journal of Orthopaedic and Sports Physical Therapy*, 34(1):A50, 2004. Presented at APTA Combined Sections Meeting, Nashville, TN, February 2004. (PO)

### **Invited Presentations**

1. **Gombatto SP**, “Movement Patterns in People with Low Back Pain” VA Medical Center La Jolla, Outpatient Physical Therapy Department, August 2017.
2. “Science Fiction, Science Future”, *Comic Con International* 2017, San Diego, CA, July 2017; invited panelists included Andy Weir (author of *The Martian*), Mike Johnson (writer, *Star Trek* comics) and Cindy Pon (author, *Want*), Dr. Stuart Lee (*NASA* scientist), Allison Hutchings (engineer), **Dr. Sara Gombatto** (Associate Professor, SDSU).
3. **Gombatto SP**, “Ecological Monitoring of Lumbar Spine Posture and Movement” SDSU Human Dynamics in the Mobile Age Lightning Talks, April 2017.
4. **Gombatto SP**, “Limb and Trunk Movements in People With and People Without Low Back Pain.” University of Waterloo, Department of Kinesiology Lecture Series, Waterloo, CA, March 2011.
5. **Gombatto SP**, “Classification of a Patient with Low Back Pain – A Case Report.” Finger Lakes District Meeting, Rochester, NY, April 2010.
6. **Gombatto SP**, “Movement impairments in people with low back pain.” Washington University Program in Physical Therapy, St. Louis, MO, September 2004.

7. **Gombatto SP**, "Hip rotation impairments in people with low back pain." Washington University Medical School, Division of Occupational Health, St. Louis, MO, May 2004.
8. Van Dillen LR, **Gombatto SP**, "Update: Evidence for movement impairment tests used to examine people with LBP." Orthopedic Faculty Retreat, St. Louis, MO, March 2004.
9. **Gombatto SP**, Fiore A, "McKenzie Method Clinical Assistant: The Lumbar Spine." APTA National Conference, Washington, DC, June 1999.
10. **Gombatto SP**, "McKenzie Method Clinical Assistant: The Lumbar Spine." APTA Southern Tier District Meeting, Ithaca, NY, February 1998.
11. **Gombatto SP**, "McKenzie Method Clinical Assistant: The Lumbar Spine." James J. Whalen Academic Symposium, Ithaca, NY, March 1998.

### **Scholarly Awards**

1. **American Physical Therapy Association Emerging Leader Award** (2009). The APTA honors physical therapists who have demonstrated extraordinary service early in his or her career and who have made exceptional overall accomplishments and contributions to the APTA and the profession to advance APTA's vision.
2. **Foundation for Physical Therapy Barnes-Leahy Scholarship** (2004). This award is sponsored by the APTA Neurology Section to provide special recognition for a recipient of the Foundation for Physical Therapy Promotion of Doctoral Scholars I scholarship. The award recognizes excellence of a research proposal in the area of neurology, and was awarded for a project related to the motor control mechanisms underlying low back pain.

### **Funded Research Grants** (San Diego State University)

1. \$532,040 – "*Lumbar spine musculoskeletal physiology and biomechanics during simulated military operations*," DOD (PRMRP/CDMRP), **Co-Investigator** (Ward SR, Kelly K, Co-Principal Investigators), 9/2013-9/2016.
2. \$9,656 – "*Validation of a Spine Motion Monitor for Measuring Lumbar Spine Posture & Movement*," University Grants Program, **Principal Investigator**, SDSU, 1/2015-12/2016.
3. \$8,424 – "*Spine Motion Monitor Application for Clinical Monitoring of Posture and Movement in People with Low Back Pain*," President's Leadership Fund (Research Affairs), **Principal Investigator**, SDSU, 6/2015-6/2016.
4. \$9,155 – "*Relationship between lumbar spine kinematics with 3D motion capture and magnetic resonance imaging*," University Grants Program, **Principal Investigator**, SDSU, 1/2014-12/2015.

### **Funded Research Grants** (Prior Institutions)

1. \$1,500 – Faculty Scholarship & Innovation Grant, **PI**, Nazareth College, 5/2012-5/2013.
2. \$5,000 – Research Designated Fund, **PI**, New York Physical Therapy Association, 8/2010-1/2012.
3. \$1,750 – Faculty Scholarship & Innovation Grant, **PI**, Nazareth College, 5/2010-8/2010.
4. \$1,675 – Faculty Scholarship & Innovation Grant, **PI**, Nazareth College, 5/2009-8/2009.
5. \$2,000 – Faculty Research & Scholarship Grant, **PI**, Nazareth College, 5/2008-8/2008.
6. \$15,000 – Promotion of Doctoral Scholarship II, **PI**, Foundation for Physical Therapy, 2006-2007.
7. \$15,000 – Promotion of Doctoral Scholarship II, **PI**, Foundation for Physical Therapy, 2005-2006.
8. \$7,500 – Promotion of Doctoral Scholarship I, **PI**, Foundation for Physical Therapy, 2004-2005.
9. \$7,500 – Promotion of Doctoral Scholarship I, **PI**, Foundation for Physical Therapy, 2003-2004.

### **Funded Training Grants**

1. \$5,690 – Summer Undergraduate Research Program, **PI**, SDSU, 5/2016-8/2016.
2. \$3,000 – Grants and Research Enterprise Writing Fellowship (GREW), SDSU, 11/2015-12/2015.
3. \$3,000 – Summer Undergraduate Research Program, **PI**, SDSU, 5/2015-8/2015.

### **In Progress Research Grants**

1. \$15,496,557 - “SDSU HealthLINK Center for Transdisciplinary Health Disparities Research,” NIMHHD U54 (Center Principle Investigators Dr. Guadalupe X. Ayala and Dr. Kristen J. Wells), **Co-Principal Investigator** on one of three Research Projects entitled “Culturally Adapted Cognitive Behavioral Based Physical Therapy for Latinos with Chronic Spine Pain,” and **Clinical Training Coordinator** for “Community Engagement Core”, initial submission 3/7/2017, resubmitted 12/2017.

### **Reviewer for Professional Journals/Organizations**

1. PLOS One
2. Physiotherapy Theory and Practice
3. Manual Therapy
4. Clinical Biomechanics
5. Archives of Physical Medicine and Rehabilitation
6. BMC Musculoskeletal Disorders
7. Gait & Posture
8. Physiotherapy

### **Participation in Professional Associations**

1. American Society of Biomechanics	Member	2016-present
2. North American Spine Society	Member	2015-2017
3. APTA Research Section	Member	2003-present
4. APTA Orthopaedics Section	Member	1999-present
5. American Physical Therapy Association	Member	1996-present

### **Professional Development and Continuing Education**

1. APTA Combined Sections Meeting, New Orleans, LA, February 2018.
2. APTA Educational Leadership Conference, Columbus, OH, October 2017.
3. APTA Combined Sections Meeting, San Antonio, TX, February 2017.
4. International Ayurveda Knowledge Exchange Program, Kerala, India, January 2017.
5. Movement Impairment Syndromes of the Neck and Shoulder, CPTA, December 2016
6. Catapult Sports Science Basketball Workshop, Chicago, IL, August 2016.
7. American Society of Biomechanics 40<sup>th</sup> Annual Meeting, Raleigh, NC, August 2016.
8. California Jurisprudence Examination, PASS, July 7<sup>th</sup>, 2016.
9. American Heart Association, Heartsaver First Aid CPR AED, and Basic Life Support Training Course, June 6<sup>th</sup>, 2016.
10. APTA Combined Sections Meeting, Anaheim, CA, February 2016.
11. “State-of-the-Art in Motor Control and Low Back Pain: International Clinical and Research Expert Forum,” North American Spine Society Instructional Course, Chicago, IL, October 17, 2015.
12. North American Spine Society Meeting, Chicago, IL, October 14-16, 2015.
13. Grant Writing Workshop, CHHS, SDSU, September 2015-December 2015.
14. American Society of Biomechanics 39<sup>th</sup> Annual Meeting, Columbus, OH, August 2015.
15. “Piecing Together the Pain Puzzle: The Biopsychosocial Model”, APTA Section on Research Retreat, Smithfield, RI, August 2015.
16. APTA Combined Sections Meeting, Indianapolis, IN, February 2015.
17. APTA Combined Sections Meeting, San Diego, CA, February 2013.
18. “Regenerative Medicine and Rehabilitation,” APTA Section on Research Retreat, Java Center, NY, August 2012.
19. Research Programming, NYPTA Conference, Rye Brook, NY, October 2011.
20. APTA Combined Sections Meeting, New Orleans, LA, February 2011.



21. Research Programming, NYPTA Conference, Atlantic City, NJ, October 2010.
22. APTA Combined Sections Meeting, San Diego, CA, February 2010.
23. Biannual Conference of the Canadian Society of Biomechanics, Kingston, ON, June 2010.
24. Research Programming, NYPTA Conference, Saratoga, NY, October 2009.
25. APTA Combined Sections Meeting, Las Vegas, NV, February 2009.
26. "Motor Control Dysfunction in People with Low Back Pain," Washington University Program in Physical Therapy, Steven J. Rose Symposium & Alumni Day, September 2008.
27. APTA, Credentialed Clinical Instructor Program Part I, Rochester, NY, May 2008.
28. APTA, Self-Study Workshop, 1.3 CEU, Nashville, TN, February 2008.
29. APTA Combined Sections Meeting, Nashville, TN, February 2008.
30. APTA Combined Sections Meeting, San Diego, CA, February 2006.
31. APTA Combined Sections Meeting, New Orleans, LA, February 2005.
32. APTA Combined Sections Meeting, Nashville, TN, February 2004.
33. NIH Trainee Workshop, NCMRR NICHD and NINDS, Silver Spring, MD, December 9-10, 2003.
34. Diagnosis & Treatment of Movement Impairment Syndromes, Level II/III: Shirley Sahrmann and colleagues, 1.3 CEU, April 2003.
35. Peripheral Nervous System Disease & Dysfunction, Washington University Program in Physical Therapy, Steven J. Rose Symposium & Alumni Day, 0.9 CEU, September 2002.
36. McKenzie Mechanical Diagnosis & Therapy, Part D: Advanced Techniques, 2.8 CEU, March 2002.
37. The Laslett Approach to Musculoskeletal Diagnosis & Treatment for the Lumbar Spine and Pelvis, SUNY Upstate Medical University, 2.6 CEU, May 2001.
38. Spring Sports Medicine Symposium: SUNY Upstate Medical University, March 2001.
39. Diagnosis & Treatment of Movement Impairment Syndromes, Level I: Shirley Sahrmann, 1.2 CEU, March 2001.
40. McKenzie Mechanical Diagnosis & Therapy, Part C: Problem-Solving, 2.1 CEU, Dec 2000.
41. Recent Advances in the Evaluation & Treatment of the Knee: Wilk, 0.9 CEU, Aug 2000.
42. Recent Advances in the Evaluation & Treatment of the Shoulder: Wilk, 0.9 CEU, Aug 2000.
43. Clinical Concepts of Foot Evaluation and Orthotic Management, 1.45 CEU, May 2000.
44. McKenzie Mechanical Diagnosis & Therapy, Part B: Cervical and Thoracic Spine, 2.1 CEU, April 2000.
45. McKenzie Mechanical Diagnosis & Therapy, Part A: Lumbar Spine, 2.8 CEU, Feb 2000.
46. Evidence-Based Therapeutic Exercise for Low Back Pain, SUNY Upstate Physical Therapy Program, January 2000.

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## **SERVICE**

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### **Service for the Department**

1. SDSU DPT Program Clinical Faculty Search Committee	Member	Spring, 2018
2. SDSU DPT Program Assessment Committee	Chair	2015-present
3. SDSU Rehabilitation Biomechanics Laboratory	Co-Director	2015-present
4. ENS Faculty Search Committee (AoE)	Chair	2015-2016
5. SDSU DPT Program Accreditation Committee	Member	2013-2015
6. SDSU DPT Program Faculty Search Committee	Member	2014-2015

### **Service for the College**

1. CHHS Population Health and Health Disparities Research Endowment, Internal Advisory Committee	Member	2016-present
2. CHHS Dean Search Committee	Member	2016-2018

### **Service for the University**

1. SDSU Faculty Senate	Senator	2017-2018
2. Smart Health Institute, Area of Excellence (AoE)	Founding Member	2015-present
3. Engineering Faculty Search Committee (AoE)	Member	2015-2016
4. SDSU Faculty Panel for New Faculty Orientation	Member	August 2014

### **Service for the Profession**

1. SDSU Big Data Hackathon, "Public Health"	Invited Judge	Feb, 2017
2. PT Now, Clinical Practice Guidelines	Review Panelist	May, 2015
3. NYPTA Research Committee	Co-chair, member	2008-2013
4. NYPTA Research Action Task Force	Member	2012-2013
5. APTA Ortho Section Research Committee	Member	2009-2012

### **Service for the Community**

#### **Activities:**

1. *Allied Gardens Recreation Center*: Head Volleyball Coach for co-ed indoor volleyball team (12U). Fall, 2017.
2. *Girls on the Run*: Head Coach for an elementary school team in the San Diego Unified School District, where I established the program. Girls on the Run is an international physical activity based positive youth development program for girls in 3rd-8th grade. Fall, 2014.
3. *Carnival for a Cause*: Co-organizer of event at Dragonfly Tavern which raised \$3,000 to benefit Mt. Hope Family Center and the Africa Yoga Project, July 2010.

#### **Presentations**

1. Gombatto SP, Invited Keynote Speaker, Ithaca College DPT Student Pinning Ceremony, Ithaca, NY, August, 2011. *Honorarium donated to the IC DPT Program Scholarship.*
2. Gombatto SP, "Essentials for Writing an Abstract." NYPTA Conference, Saratoga Springs, NY, October 2009.
3. Gombatto SP, "Mechanisms Underlying Different Types of Low Back Pain Problems." Nazareth College Continuing Education Workshop, Rochester, NY, March 2008.