

CURRICULUM VITAE
(CAPTE Format)

Christopher R. Carcia
1100 North Avenue
Grand Junction, CO 81501
ccarcia@coloradomesa.edu

Education:

Doctor of Philosophy
University of Virginia
Charlottesville, VA
Kinesiology – Sports Medicine
August 1999 - August 2002

Master of Science
Institute of Health Professions @ Massachusetts General Hospital
Boston, MA
Orthopaedic/Sports Physical Therapy
August 1992 - May 1999

Bachelor of Science
Arcadia University
Glenside, PA
Physical Therapy
September 1985 - September 1989

Licensure Information:

Colorado #PTL.0017101
Pennsylvania #PT016607
Virginia #2305202169 (inactive)
Connecticut #004167 (inactive)

Certifications (eg. ABPTS):

ABPTS - Sports Certified Specialist (#1108); 1995 – Present
ABPTS - Orthopaedic Certified Specialist (#21372); 2010 – Present
NSCA - Certified Strength & Conditioning Specialist (#911796); 1991–1992

Employment and Positions Held:

Program Director & Associate Professor
Physical Therapy Program
Department of Kinesiology
Colorado Mesa University
Grand Junction, CO
March 2021 - Present

Chair
Department of Physical Therapy – DPT in Physical Therapy
John G. Rangos Sr. School of Health Sciences
Duquesne University
Pittsburgh, PA
June 2013 – February 2021 (reappointed in 2016 & 2019)

Program Director
China Linkage – MS in Physical Therapy
John G. Rangos Sr. School of Health Sciences
Duquesne University
Pittsburgh, PA
July 2014 – July 2019

Program Director
Ph.D. in Rehabilitation Sciences
John G. Rangos Sr. School of Health Sciences
Duquesne University
Pittsburgh, PA
July 2009 – February 2021

Associate Professor
Tenured – Department of Physical Therapy
John G. Rangos Sr. School of Health Sciences
Duquesne University
Pittsburgh, PA
July 2008 – February 2021

Assistant Professor
Tenure track – Department of Physical Therapy
John G. Rangos Sr. School of Health Sciences
Duquesne University
Pittsburgh, PA
September 2002 – June 2008

Staff Physical Therapist
Tri-State Physical Therapy
Seven Fields, PA
March 2008 – November 2020

Staff Physical Therapist
Centers for Rehab Services
Mars, PA
May 2004 – March 2008

Research Assistant
Non-tenured
University of Virginia
Charlottesville, VA
August 2000 – August 2002

Director
Physical Therapy & Sports Medicine Associates (PT SMA)
Bristol, CT
September 1993 – August 1999

Staff Physical Therapist
Physical Therapy & Sports Medicine Associates
Bristol, CT
October 1989 - 1993

Refereed Peer Reviewed Publications

Hannah DC, Scibek JS, **Carcia CR**, Phelps AL. Junior and collegiate tennis players display similar bilateral asymmetries of humeral retroversion. *J Athl Train*. Submitted – under review.

Carroll LA, Kivlan BR, Martin RL, Phelps AL, Carcia CR. The single leg squat test: a 'top-down' or 'bottom-up' functional performance test? *Intl J Sports Phys Ther*. In-press.

Cacolice PA, **Carcia CR**, Scibek JS. Shoulder flexion torque is augmented by a volitional abdominal isometric contraction. *J Strength Cond Res*. In-press. <https://doi.org/10.1519/JSC.0000000000003277>

Cacolice PA, **Carcia CR**, Scibek JS, Phelps AL. Ground reaction forces are predicted with functional and clinical tests in healthy collegiate students. *J Clin Med.* 9, 2907; doi:10.3390/jcm9092907

Carcia CR, Cacolice PA, McGeary S. Defining lower extremity dominance: the relationship between preferred lower extremity and two functional tasks. *Intl J Sports Phys Ther.* 14(2):188-191, 2019

Hannah DC, Scibek JS, **Carcia CR**, Phelps AL. Reliability and validity of a 1-person technique to measure humeral torsion using ultrasound. *J Athl Train.* 53(6):590-596, 2018.

Martin RL, Chimenti R, Cuddeford T, Houck J, Matheson JW, McDonough CM, Paulseth S, Wukich DK, **Carcia CR**. Achilles pain, stiffness and muscle power deficits: midportion Achilles tendinopathy revision 2018. *J Orthop Sports Phys Ther.* 48(5):A1-A38, 2018.

Hannah DC, Scibek JS, **Carcia CR**. Strength profiles in healthy individuals with and without scapular dyskinesis. *Intl J Sports Phys Ther.* 12(3):390-401, 2017.

Kivlan BR, **Carcia CR**, Christoforetti JJ, Martin RL. Comparison of range of motion, strength, and hop test performance of dancers with and without femoroacetabular impingement. *Intl J Sports Phys Ther.* 11(4):527-535, 2016.

Kivlan BR, **Carcia CR**, Clemente R, Phelps AL, Martin RL. The effect of ASTYM therapy on muscle strength: a blinded, randomized, clinically controlled trial. *BMC Musculoskeletal Disorders.* 16(325):1-10, 2015.

Cacolice PA, **Carcia CR**, Scibek JS, Phelps AL. The use of functional tests to predict sagittal plane knee kinematics in NCAA-D1 female athletes. *Intl J Sports Phys Ther.* 10(4):1-12, 2015.

Scibek JS, **Carcia CR**. Validation of a new method for assessing scapular anterior-posterior tilt. *Intl J Sports Phys Ther.* 9(5):644-656, 2014.

Carcia CR, Cacolice PA, Scibek JS. Sidelying glenohumeral internal rotation values in healthy collegiate populations. *Intl J Sports Phys Ther.* 8(6):793-799, 2013.

Scibek JS, **Carcia CR**. Validation and repeatability of a shoulder biomechanics data collection methodology and instrumentation. *J Appl Biomech.* 29(5):609-615, 2013.

Kivlan BR, **Carcia CR**, Clemente FR, Phelps AL, Martin RL. Reliability and validity of functional performance tests in dancers with hip dysfunction. *Intl J Sports Phys Ther.* 8(4):360-369, 2013.

Carcia CR, Scibek JS. Causation & management of calcific tendonitis and periarthrititis. *Current Opinion in Rheumatology.* 25(2):204-209, 2013.

Lindenberg KM, **Carcia CR**. The influence of heel height on vertical ground reaction force during landing tasks in recreationally active and athletic collegiate females. *Intl J Sports Phys Ther.* 8(1):1-8, 2013.

Scibek J, **Carcia CR**. Presentation and conservative management of acute calcific tendinopathy: a case study & literature review. *Journal of Sport Rehabilitation.* 21:334-342, 2012.

Scibek J, **Carcia CR**. Assessment of scapulohumeral rhythm for scapular plane shoulder elevation using a modified digital inclinometer. *World J Orthop.* 3(6):87-94, 2012.

Carcia CR, Kivlan B, Scibek JS. Time to peak force is related to frontal plane landing kinematics in females. *Physical Therapy in Sport,* 13(2):73-79, 2012.

Lindenberg KM, **Carcia CR**, Phelps AL, Martin RL, Burrows AM. The influence of heel height on sagittal plane knee kinematics during landing tasks in recreationally active and athletic collegiate females. *Intl J Sports Phys Ther.*, 6(3):186-189, 2011.

Carcia CR, Kivlan B, Scibek JS. The relationship between lower extremity closed kinetic chain strength and sagittal plane landing kinematics in female athletes. *Intl J Sports Phys Ther.* 6(1):1-9, 2011.

Carcia CR, Martin RL, Houck J, Wukich DK. Achilles pain, stiffness and muscle power deficits: Achilles tendinitis: Clinical practice guidelines – Orthopaedic section of the APTA. *J Orthop Sports Phys Ther.* 40(9):A1-A26, 2010.

Lindenberg KM, **Carcia CR**. Muscle response times between shoe and no-shoe conditions following a weight-bearing rotary perturbation are similar in females. *Journal of Electromyography and Kinesiology* 19:e329–e333, 2009.

Carcia CR, Martin RL, Drouin JM. Evidence of validity for the foot and ankle ability measure in athletes with chronic ankle instability. *J Athl Train*, 43(2):179-183, 2008.

Carcia CR, Martin RL. The influence of gender on gluteus medius activity during a drop vertical jump. *Physical Therapy in Sport*, 8:169 – 176, 2007.

Carcia CR, Drouin JM, Houglum PA. The influence of a foot orthotic on lower extremity transverse plane kinematics in collegiate female athletes with pes planus. *J Sports Sci & Med*, 5:646 – 655, 2006.

Shultz SJ, **Carcia CR**, Gansneder BM, Perrin DH: The independent and interactive effects of navicular drop and Q-angle on neuromuscular responses to a weight bearing perturbation. *J. Athl Train.*, 41(3):251 – 259, 2006.

Padua DA, Arnold BL, Perrin DH, Gansneder BM, **Carcia CR**, Granata KP: Fatigue, vertical leg stiffness and stiffness control strategies in males and females. *J Athl Train.*, 41(3):294 – 304, 2006.

Carcia CR, Eggen J, Shultz SJ: Hip abductor fatigue affects frontal plane landing angle but not excursion during a drop jump. *J. Sport Rehab*; 14:321 – 331, 2005.

Martin RL, Manning C, **Carcia CR**, Conti S: An outcome study of chronic Achilles tendonosis following excision of the Achilles tendon and flexor hallucis longus transfer. *Foot & Ankle International*; 26(9):691 – 697, 2005.

Carcia CR, Shultz SJ, Granata KP, Perrin DH, Martin RL: Females recruit quadriceps faster than males at multiple knee flexion angles following a weight-bearing rotary perturbation. *Clin J Sport Med*; 15(3):167-171, 2005.

Padua DA, **Carcia CR**, Wilson SE, Granata KP: Lower extremity stiffness and stiffness recruitment strategies between males and females during hopping. *J Motor Behav*; 37(2):111-125, 2005.

Carcia CR, Shultz SJ, Granata KP, Gansneder BM, Perrin DH: Knee ligament behavior following a controlled loading protocol does not differ by menstrual cycle day. *Clin. Biomechanics*; 19:1048-1054, 2004.

Shultz SJ, **Carcia CR**, Perrin DH: Knee joint laxity affects muscle activation patterns at the knee. *J Electromyography & Kinesiology*; 14(4):475-483, 2004.

Gross SM, **Carcia CR**, Gansneder BM, Shultz SJ: Rate of force application during knee arthrometer measurements affects stiffness but not displacement. *J Orthop Sports Phys Ther.*; 34(3):131-138, 2004.

Hargrave M, **Carcia CR**, Shultz SJ, Gansneder BM: Subtalar pronation does not affect ground reaction forces. *J Athl Train.*; 37(1):18 – 23, 2003.

Olmsted LC, **Carcia CR**, Hertel JN, Shultz SJ: Efficacy of the star excursion balance test in detecting balance deficits in subjects with functional ankle instability. *J Athl Train.*; 37(4):501 – 506, 2002.

Non-Refereed Peer Reviewed Publications

Carcia CR, Scibek JS, Seagrave CJ. Evaluation & management of common cycling injuries. Monograph for APTA, Orthopaedic Section. *ISC 23.1.2:pp.1-34*, August, 2013.

Carcia CR. Commentary. *J Athl Train.*, 46(2):168-169, 2011.

Lindenberg KM, **Carcia CR**, Martin RL: Clinical application of functional foot orthoses. *Orthopaedic Physical Therapy Practice*. 22(3):141-146, 2010.

Martin RL, Paulseth S, **Carcia CR**: Taping techniques for Achilles tendinopathy. *Orthopaedic Physical Therapy Practice*. 21 (2): 47-48: 2009.

Chu BI, Martin RL, **Carcia CR**, Gibbs AE, Sekiya JK. Surgical techniques and post-operative rehabilitation for isolated posterior cruciate ligament injuries. *Orthopaedic Physical Therapy Practice*; 19(3):183-187, 2007.

Carcia CR, Martin RL. Isolated posterior cruciate ligament injuries Part II: Natural history, rehabilitation principles and case study. *Orthopaedic Physical Therapy Practice*; 19(3):137-141, 2007.

Carcia CR, Martin RL. Isolated posterior cruciate ligament injuries Part I: anatomy, biomechanics, mechanism of injury and examination. *Orthopaedic Physical Therapy Practice*, 19:81-86, 2007.

Carcia CR, Martin RL. Controversies in chronic ankle instability. *Orthopaedic Physical Therapy Practice*; 19(1):54-55, 2007.

Carcia CR, Martin RR, Civitello M: Ultrasound Efficacy (Letter to the Editor). *Phys Ther*; 84(10):982-983, 2004.

Book Chapters

Carcia CR; “Head, Neck, and Trunk” – Chapter 8. In: Houglum PA, Bertoti DB, eds. *Brunnstrom’s Clinical Kinesiology 6th edition*. Philadelphia, PA: FA Davis; 2011.

Carcia CR & Bertoti DB; “Pelvis & Hip”- Chapter 9. In: Houglum PA, Bertoti DB, eds. *Brunnstrom’s Clinical Kinesiology 6th edition*. Philadelphia, PA: FA Davis; 2011.

Martin RL, **Carcia CR**, Belczyk R, Wukich DK; Foot and Ankle Clinical Decision Making. In: Sueki D, Brechter J, eds. *Orthopedic Rehabilitation Clinical Advisor*. St. Louis, MO: Elsevier; 2009.

Peer Reviewed Scientific and Professional Presentations:

Cacolice PA, Starkey BE, Carcia CR, Higgins PE.

Research Dominance Definitions May Not Identify Higher Risk Limb for Anterior Cruciate Ligament Injury
J Athl Train., 55(6):S-94, 2020.

(Virtual) National Athletic Trainer’s Association Meeting
June, 2020

Hannah DS, Scibek JS, Carcia CR, Phelps AM.

Junior and Collegiate Tennis Players Display Similar Bilateral Asymmetries of Humeral Retroversion
South Carolina Athletic Trainer’s Association Meeting

Columbia, SC

July, 2019

Hannah DS, Scibek JS, **Carcia CR**, Phelps AM.
Measuring Humeral Torsion with Ultrasound
Eastern Athletic Trainer's Association Meeting
Philadelphia, PA
January, 2017

Cacolice PA, **Carcia CR**, Scibek JS.
Landing kinematics can be predicted with lower extremity functional tests.
J Athl Train., 50(3):S-109, 2015.
66th National Athletic Trainer's Association Meeting
St. Louis, MO
June, 2015

Cacolice PA, **Carcia CR**, Scibek JS.
Sagittal plane landing kinematics are predicted with lower extremity muscular power tests.
J Athl Train., 49(3):S-209, 2014.
65th National Athletic Trainer's Association Meeting
Indianapolis, IN
June, 2014

Kivlan B, Martin RL, **Carcia CR**, Christoforetti JJ.
Comparison of hop-test performance of dancers with and without femoracetabular impingement.
J Orthop Sports Phys Ther., 44(1):A-34, 2014.
APTA – Combined Sections Meeting - Sports Programming
Las Vegas, NV
February, 2014

Scibek JS, Gatti JM, **Carcia CR**, Vomer R.
A modified digital inclinometer is a valid instrument for measuring scapular anterior-posterior tilt in shoulder injured subjects.
J Athl Train., 48(3):S-180, 2013.
64th National Athletic Trainer's Association Meeting
Las Vegas, NV
June, 2013

Cacolice PA, **Carcia CR**, Scibek JS.
Shoulder flexion torque is augmented by a volitional abdominal contraction.
J Athl Train., 48(3):S-155, 2013.
64th National Athletic Trainer's Association Meeting
Las Vegas, NV
June, 2013

Carcia CR, Cacolice PA, Scibek J.
The sleeper stretch as an evaluative measure – a preliminary report.
J Athl Train., 47(3): S-78, 2012.
63rd National Athletic Trainer's Association Meeting
St. Louis, MO
June, 2012

Carcia CR, McGeary S.
Defining lower extremity dominance.
J Orthop Sports Phys Ther., 42(1):A-25, 2012.
APTA – Combined Sections Meeting - Platform presentation (Orthopaedic Section)
Chicago, IL
February, 2012

Carcia CR, Scibek J.

Management of acute calcific supraspinatus tendinopathy with therapeutic exercise: a case study.
J Orthop Sports Phys Ther., 42(1):A-85, 2012.

APTA – Combined Sections Meeting - Poster presentation (Orthopaedic Section)
Chicago, IL
February, 2012

Godges J, Martin RL, **Carcia CR**, Matheson JW

Use of the ICF to develop practice guidelines for common musculoskeletal conditions: a progress update focusing on ankle and foot disorders

APTA – Combined Sections Meeting - Orthopaedic Programming
Chicago, IL
February, 2012

Scibek JS, Gatti JM, **Carcia CR**

Establishing a reliable method of measuring scapular anterior-posterior tilt.

J Athl Train., 45(3): S-136, 2011.

62nd National Athletic Trainer's Association Meeting
New Orleans, LA
June, 2011

Carcia CR, Bickford J, Scibek JS, Kivlan B, Langhans M

The relationship between functional lower extremity strength and landing kinematics in competitive female athletes.

J Orthop Sports Phys Ther., 40(1):A-100, 2010.

APTA – Combined Sections Meeting - Poster presentation (Sports Section)
San Diego, CA
February, 2010

Martin RL, **Carcia CR**

Achilles tendinopathy: clinical practice guidelines linked to the international classification of functioning, disability and health.

J Orthop Sports Phys Ther., 40(1):A-55, 2010.

APTA – Combined Sections Meeting. Poster presentation (Orthopaedic Section)
San Diego, CA
February, 2010

Lindenberg KM, **Carcia CR**, Martin RL, Burrows AM, Phelps AL.

The influence of heel height on sagittal plane knee kinematics during landing in females.

J Orthop Sports Phys Ther., 40(1):A-49, 2010.

APTA – Combined Sections Meeting - Platform presentation (Sports Section)
San Diego, CA
February, 2010

Scibek JS, **Carcia CR**, Gatti JM.

Comparison of tri-planar scapulohumeral rhythm in healthy shoulders during elevation in three planes.

J Athl Train., 44(3): S-77, 2009.

60th National Athletic Trainer's Association Meeting
San Antonio, TX
June, 2009

Scibek JS, Emory CM, Hart MM, **Carcia CR**.

Validation of a new method for assessing scapular anterior-posterior tilt.

Pennsylvania Athletic Trainers' Society Annual Meeting & Clinical Symposium
Johnstown, PA
June, 2009

Scibek JS, Emory CM, Hart MM, **Carcia CR**.
Assessment of scapulohumeral rhythm with a modified digital inclinometer.
Pennsylvania Athletic Trainers' Society Annual Meeting & Clinical Symposium
Johnstown, PA
June, 2009

Lindenberg KM, **Carcia CR**
Footwear does not alter muscle response time following a weight bearing rotary perturbation
ACL Research Retreat IV: The Gender Bias;
Greensboro, NC
April, 2008

Carcia CR, Drouin JM, Martin RL, Speigle J
Evidence of validity for the foot and ankle ability measure (FAAM) in individuals with chronic ankle instability.
J Orthop Sports Phys Ther, 37(1):A14-15, 2007.
APTA - Combined Sections Meeting
Boston, MA
February, 2007

Carcia CR, Drouin JM, Houghlum PA
The influence of a foot orthotic on lower extremity transverse plane kinematics in collegiate female athletes with large navicular drop scores during landing.
J Orthop Sports Phys Ther.; 37(2):A-17, 2007.
ACL Research Retreat III– The Gender Bias
Lexington, KY
April, 2006

Drouin JM, **Carcia CR**, Houghlum PA:
The effect of foot pronation on tibial and femoral rotation during single leg landing tasks in female collegiate athletes.
Eastern Athletic Trainers' Association Meeting & Clinical Symposium
Philadelphia, PA
January, 2006

Carcia CR, Houghlum PA:
Prediction of tibial rotation during landing and hopping in females.
J Athl Train., 39(2):S-29, 2004.
55th National Athletic Trainer's Association Meeting
Baltimore, MD
June, 2004

Houghlum PA, **Carcia CR**:
Prefabricated orthotics decrease internal tibial rotation during hopping in females.
J Athl Train., 39(2):S-29, 2004.
55th National Athletic Trainer's Association Meeting
Baltimore, MD
June, 2004

Shultz SJ, **Carcia CR**, Perrin DH:
Knee joint laxity affects muscle activation patterns at the knee prior to and following a weight-bearing perturbation.
J Orthop Sports Phys Ther. 33(8):A-20, 2003.
APTA - Combined Sections Meeting;
Tampa FL
February, 2003

Carcia CR, Shultz SJ, Granata KP, Gansneder BM, Perrin DH:
Controlled anterior loading does not affect knee joint behavior across the menstrual cycle.
J Athl Train. 38(2):S-14, 2003.
54th National Athletic Trainer's Association Meeting
St. Louis, MO
June, 2003.

Eggen JM, **Carcia CR**, Gansneder GM, Shultz SJ:
Hip abductor fatigue affects knee motion during the landing phase of a drop jump.
J Athl Train. 38(2):S-22, 2003.
54th National Athletic Trainer's Association Meeting
St. Louis, MO
June, 2003

Gross SM, **Carcia CR**, Gansneder BM, Shultz SJ:
Rate of force affects stiffness but not displacement measures with the KT-2000.
J Athl Train. 38(2):S-111, 2003.
54th National Athletic Trainer's Association Meeting
St. Louis, MO
June, 2003

Shultz SJ, Perrin DH, **Carcia CR**, Gansneder BM:
Lower Extremity Alignment Effects Muscle Activation Patterns at the Knee Following a Weight-Bearing Perturbation.
J Athl Train. 37(2):S-28, 2002.
53rd National Athletic Trainer's Association Meeting
Dallas, TX
June, 2002

Padua DA, Arnold BL, Perrin DH, **Carcia CR**, Granata KP
Knee Landing angle and hopping frequency influence vertical leg stiffness, stiffness recruitment strategies and ground reaction force.
J Athl Train. 37(2):S-26, 2002.
53rd National Athletic Trainer's Association Meeting
Dallas, TX
June, 2002

Shultz SJ, **Carcia CR**, Hargrave MD, Docherty CL
Sex Differences in Muscle Activation Patterns and Peak Vertical Force During a Single Leg Forefoot Landing.
J Athl Train., 37(2):S-19, 2002.
53rd National Athletic Trainer's Association Meeting
Dallas, TX
June, 2002

Padua DA, **Carcia CR**, Gansneder BM, Perrin DH, Arnold BL, Granata KP:
Influence of fatigue on vertical leg stiffness and stiffness recruitment strategies in males and females.
Med Sci. Sports Exerc. 34(5):S-101, 2002.
49th American College of Sports Medicine Annual Meeting
St. Louis, MO
May, 2002

Perrin DH, Shultz SJ, Sander TC, **Carcia CR**:
Reliability of ligament compliance and tibial displacement measures obtained from two knee arthrometers.
Med Sci Sports Exer., 34(5):S-147, 2002.
49th American College of Sports Medicine Annual Meeting

St. Louis, MO
May, 2002

Shultz SJ, Sander TC, **Carcia CR**, Perrin DH:
Knee arthrometer measurement - consistency of slope and displacement as calculated by software that replaces radiography.
Med Sci Sports Exer., 34(5):S-147, 2002.
49th American College of Sports Medicine Annual Meeting
St. Louis, MO
May, 2002

Sander TC, Shultz SJ, **Carcia CR**, Perrin DH: Knee arthrometer measurement stability of anterior displacement and ligament compliance across repeated trials.
Med Sci Sports Exer., 34(5):S-147, 2002.
49th American College of Sports Medicine Annual Meeting
St. Louis, MO
May, 2002

Carcia CR, Shultz SJ, Perrin DH:
Neuromuscular recruitment at the knee following a functional perturbation at three knee flexion angles.
Med Sci Sports Exerc. 33(5):S-89, 2001.
American College of Sports Medicine Annual Meeting
Baltimore, MD
May, 2001

Shultz SJ, **Carcia CR**, Perrin DH:
Performance consistency of response times following a lower extremity functional perturbation.
Med Sci Sports Exerc. 33(5):S-89, 2001.
American College of Sports Medicine Annual Meeting
Baltimore, MD
May, 2001

Padua DA, **Carcia CR**, Wilson SE, Granata KP:
Lower extremity stiffness and stiffness recruitment strategies between males and females during hopping.
Med Sci Sports Exerc. 33(5):S-283, 2001.
American College of Sports Medicine Annual Meeting
Baltimore, MD
May, 2001

Funded/In Review Grant Activity:

Eastern Athletic Trainer's Association (EATA)
"Predicting Ground Reaction Forces From Practical Measures"
P.I. – Cacolice PA; Co-Investigators – Carcia CR, Salacinski AJ, Selgrade BP
Submitted January, 2021. Requested \$3377

NIH / National Institute of Arthritis and Musculoskeletal and Skin Diseases (RO3)
"Effect of Foot Orthotics on Biomechanics During Landing"; 1 RO3 AR052055-01
C.R. Carcia – Principal Investigator; Requested \$100,000 (Direct)
Submitted February, 2004; Priority Score = 170; Not Funded;
Resubmitted February, 2005; Priority Score = 170; Not Funded.

Duquesne University - Faculty Development Fund '05
"Effect of Foot Orthotics on Biomechanics During Landing";
Carcia CR – Principal Investigator. Requested \$1,250.
Funded May, 2005

The Aircast Foundation

"The Effect of Foot Orthotics on Lower Extremity Kinematics and Kinetics During Hopping and Landing in Males and Females"

Carcia CR – Principal Investigator. Requested \$100,000 (Direct)

Pre-proposal submitted July, 2004 – Full proposal not requested

Women's Sport Foundation

Effect of controlled loading on knee ligament behavior across genders

Carcia CR – Principal Investigator

Funded: Requested \$2,500; Awarded \$1,800

December, 2001

NIH / National Institute of Arthritis and Musculoskeletal and Skin Diseases (RO3)

"Gender, Sex Specific Hormones and Anterior Cruciate Ligament Compliance"

Carcia CR - Research Assistant, University of Virginia (Co-Principal

Investigators; David H. Perrin, PhD, ATC & S.J. Shultz PhD, ATC). \$150,000 (Direct)

Funded: September 2000 - August 2004

National Athletic Trainers' Association Research and Education Foundation

"Effect of Lower Extremity Limb Alignment on Neuromuscular Activation Patterns"

Carcia CR - Research Assistant; (Co-Principal Investigators: S.J. Shultz PhD, ATC & David H. Perrin PhD, ATC); University of Virginia. \$35,207

Funded: March 2000 - August 2002

Foundation for Physical Therapy

"Promotion of Doctoral Studies II"

Scholarship submission (\$15,000) in support of dissertation

Recommended for funding*

May, 2001

Current/Active Research Activity:

To identify gender specific risk factors related to anterior cruciate ligament (ACL) injuries and intervention strategies that are capable of reducing ACL injuries in the female athlete.

Elucidation of anatomical, biomechanical and muscular influences on shoulder kinematics.

Contributions to the review of general knowledge in orthopedics and sports medicine.

Membership in Scientific/Professional Organizations:

American Physical Therapy Association (APTA) - #21289

Member

1989 – Present

APTA – Sports Section

Member

1995 - Present

APTA – Orthopaedic Section

Member

2010 – Present

APTA – Education Section

Member

2013 - Present

Consultative and Advisory Positions Held:

Editorial Board Member
Journal of Athletic Training
January 2010 – Present

Associate Editor
Orthopaedic Physical Therapy Practice
Orthopaedic Section of the APTA
LaCrosse, WI
March 2014 – March 2016

Subject Matter Expert (SME) Monograph Reviewer
“Biomechanics of the Foot & Ankle for the Physical Therapist” – Jeff Houck
Orthopaedic Section
APTA
2012

Subject Matter Expert (SME) Monograph Reviewer
“Exercise Progressions for the Foot & Ankle” – Clarke Browne (2/2012)
Orthopaedic Section
APTA
2012

Subject Matter Expert (SME) Monograph Reviewer
“Adult Acquired Flat Foot Disorders” – Brandon Crim & Dane Wukich (9/2011)
Orthopaedic Section
APTA
2012

External Reviewer for PhD program in PT
Nova SouthEastern University
January, 2012

APTA appointed reviewer
American Orthopaedic Society for Sports Medicine Clinical Guideline on Achilles Rupture/Repair
2009

APTA - Orthopaedic Section
Abstract Reviewer for Combined Sections Meeting
2007 – Present

Advisory Board Member
Siena Heights University
Transitional DPT program
August 2005 – January 2006

Manuscript/Peer reviewer for the:
International Journal of Sports Physical Therapy;
Journal of Applied Biomechanics;
Journal of Athletic Training;
Journal of Sport Rehabilitation;
Physiotherapy Theory and Practice;
Sports Health

Dissertation/ Thesis Committee Member

Duquesne University
John G. Rangos Sr., School of Health Sciences
Candidate: Lindsay Carroll
Degree: Ph.D in Rehabilitation Science
Dissertation: Gluteus Medius and Maximum activity during the Single Leg Squat Test in Patients with Chronic Ankle Instability
Role: Member
Graduation: Anticipated August, 2021

Duquesne University
John G. Rangos Sr., School of Health Sciences
Candidate: Daniel Hannah
Degree: Ph.D in Rehabilitation Science
Dissertation: Humeral Retroversion, ROM & Strength Adaptations in Tennis Players
Role: Member
Graduation: August, 2019

Duquesne University
John G. Rangos Sr., School of Health Sciences
Candidate: Paul A. Cacolice
Degree: Ph.D. in Rehabilitation Science
Dissertation: Ground Reaction Forces are Predicted with Functional & Clinical Tests in a Healthy Collegiate Population
Role: Chair
Graduation: August, 2015

Duquesne University
John G. Rangos Sr., School of Health Sciences
Candidate: Benjamin R. Kivlan
Degree: Ph.D. in Rehabilitation Science
Dissertation: The Effect of ASTYM on Treatment of Muscle Performance
Role: Member
Graduation: December, 2014

Duquesne University
John G. Rangos Sr., School of Health Sciences
Candidate: Kelly M. Lindenberg
Degree: Ph.D. in Rehabilitation Science
Dissertation: The Influence of Heel Height on Sagittal Plane Knee Kinematics During Landing Tasks in Recreationally Active Collegiate Females
Role: Chair
Graduation: December, 2009

Honors and Awards:

Dean's Awards for Faculty Excellence – Scholarship
Rangos School of Health Sciences
Duquesne University
May 2008

Dean's Awards for Faculty Excellence – Teaching
Rangos School of Health Sciences
Duquesne University
May 2006

Marjorie K. Ionta Award
Institute of Health Professions
Massachusetts General Hospital
Boston, MA
May, 1993

Jane Marques Excellence Award
Physical Therapy & Sports Medicine Associates
Bristol, CT
1997

Continuing Education Attended (last 5 years):

Commission on Accreditation in Physical Therapy Education
Developing Program Workshop
Seattle, WA
October, 2019

Steadman Philippon Research Institute
Advances in Regenerative Medicine
Vail, CO
August, 2019

Blood Flow Restriction Training Level 1 – Smart Cuffs
Duquesne University
Pittsburgh, PA
July, 2019

American Orthopaedic Society for Sports Medicine
Annual Meeting
Boston, MA
July, 2019

Steadman Philippon Research Institute
3rd Annual Injury Prevention Symposium
Vail, CO
May, 2019

APTA - Educational Leadership Conference
Columbus, OH
October, 2017

APTA – Educational Leadership Conference
Baltimore, MD
October, 2015

66th National Athletic Trainer's Association Meeting
St. Louis, MO
June, 2015
APTA – Combined Sections Meeting
Indianapolis, IN
February, 2015