**Martha Cammarata, PhD**

Program in Physical Therapy

School of Education and Health Sciences

North Central College

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Naperville, IL 60540

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Updated: Dec 2022

**EDUCATION**

2010 Doctor of Philosophy in Biomedical Engineering

Northwestern University

Evanston, IL

2007 Master of Science in Biomedical Engineering

Northwestern University

Evanston, IL

2004 Bachelor of Science in Bioengineering

University of Pittsburgh

Pittsburgh, PA

**LICENSURE INFORMATION/REGISTRATION NUMBER**

N/A

**CERTIFICATIONS (E.G. ABPTS)**

N/A

**EMPLOYMENT AND POSITIONS HELD**

2022-present Assistant Professor of Physical Therapy

Department of Physical Therapy

School of Education and Health Sciences

North Central College

Naperville, IL

2017-2022 Half-time Assistant Professor

Adjunct Assistant Professor

Department of Kinesiology

School of Education and Health Sciences

North Central College

Naperville, IL

2017-2022 Consultant

Beaird Group

Naperville, IL

2015-2018 Research Consultant

Department of Obstetrics and Gynecology

Loyola University Medicine

Maywood, IL

2014-2019 Adjunct Assistant Professor

Department of Physical Medicine and Rehabilitation

Feinberg School of Medicine

Northwestern University

Chicago, IL

2012-2015 Assistant Professor

Visiting Assistant Professor

Adjunct Assistant Professor

Department of Biology

College of Arts and Sciences

North Park University

Chicago, IL

2011-2013 Teaching Fellow

Northwestern University Ventures in Biology Education (NuVIBE)

Department of Biology

Northwestern University

Evanston, IL

2008-2010 Graduate Mentor

Participant

Graduate Teaching Certificate Program

Searle Center for Teaching Excellence

Northwestern University

Evanston, IL

2004-2011 Graduate Student, Research Assistant

Department of Biomedical Engineering

Sensory Motor Performance Program

Rehabilitation Institute of Chicago

Northwestern University

Chicago, IL

**PEER REVIEWED PUBLICATIONS**

**Manuscripts**

2012 **Cammarata ML,** Dhaher YY. Associations between frontal plane joint stiffness and proprioceptive acuity in knee osteoarthritis. *Arthritis Care Res (Hoboken)*. 2012;64(5):735-43.

2011 **Cammarata ML,** Schnitzer TJ, Dhaher YY. Does knee osteoarthritis differentially modulate proprioceptive acuity in the frontal and sagittal planes? *Arthritis Rheum*. 2011;63(9):2681-9.

2011 **Cammarata ML**, Dhaher YY. Proprioceptive acuity in the sagittal and frontal planes of the knee: A preliminary study. *Eur J Appl Physiol*. 2011;111(7):1313-20.

2010 **Cammarata ML,** Dhaher YY. Evidence of gender-specific motor templates to resist valgus loading at the knee. *Muscle and Nerve.* 2010;41(5):614-23.

2008 **Cammarata ML,** Dhaher YY. The differential effects of gender, anthropometry, and prior hormonal state on frontal plane knee joint stiffness. *Clin Biomech (Bristol, Avon).* 2008;23:937-45.

**PUBLISHED ABSTRACTS OF PEER-REVIEWED PRESENTATIONS**

2016 Fitzgerald CM, **Cammarata ML,** Dhaher YY. Neuromuscular properties of the pelvic floor: description and implementation of a novel device. Poster Presentation, American Urogynecologic Society – Pelvic Floor Disorders (PFD) Week 2016, Denver, CO, September 27 – October 1, 2016.

2011 **Cammarata M**, Schnitzer T, Dhaher Y. Associations between frontal plane joint stiffness and proprioceptive acuity in knee osteoarthritis. Poster Presentation, Orthopedic Research Society Annual Meeting, Long Beach, CA. January 2011.

2010 **Cammarata M**, Dhaher Y. Proprioceptive acuity in the frontal and sagittal planes in knee osteoarthritis. Platform Presentation, American Society of Biomechanics, Providence, RI, August 2010.

Gupta D; **Cammarata M**,Dhaher Y.Does hormonal contraceptive formulation influence knee joint mechanics? Poster Presentation, Orthopedic Research Society Annual Meeting, New Orleans, LA, March 6-9, 2010.

2008 **Cammarata M**, Dhaher Y. Proprioception in constrained and unconstrained degrees of freedom. Platform Presentation, North American Conference on Biomechanics, Ann Arbor, MI August, 2008.

2007 **Cammarata M**, DeMott T, Dhaher Y. Evidence of gender specific motor templates to resist a valgus perturbation at the knee. Platform Presentation, American Society of Biomechanics, Palo Alto, CA, August, 2007.

**Cammarata M**, DeMott T, Dhaher Y. Frontal plane knee joint stiffness: gender and hormonal effects. Poster Presentation, American Society of Biomechanics, Palo Alto, CA, August, 2007.

2006 **Loehr** (**Cammarata) M**, Moore J, Dhaher Y, Tsoumanis A. Effect of gender and oral contraceptive use on frontal plane knee joint stiffness: a pilot study. Poster Presentation, American Society of Biomechanics, Blacksburg, VA, September, 2006.

Connemara R, **Loehr (Cammarata) M**, Ballou E, Dhaher Y. Differential distribution of mechanoreceptors in periarticular structures of the cat knee. Poster Presentation, International Symposium on Ligaments and Tendons – VI, Chicago, IL, March 2006.

**PEER REVIEWED SCIENTIFIC AND PROFESSIONAL PRESENTATIONS (**Those not previously cited above under abstracts)

**National/International**

2022 Smith MP, **Cammarata ML**, Bettin NM, Scholtes S. Innovative Use of a Simulated Electronic Health Record Software to Enhance Content Integration and Clinical Reasoning. Education Session, Educational Leadership Conference of the American Physical Therapy Association, Milwaukee, WI, October 2022.

Scholtes S, Smith MP, Bettin NM, **Cammarata ML**. Balancing Learning with Mental Health in an Innovative Curricular Approach. Education Session, Educational Leadership Conference of the American Physical Therapy Association, Milwaukee, WI, October 2022.

2010 Dhaher Y, **Cammarata M**. A neuromuscular probe to evaluate hormonally-mediated changes in soft tissue properties. Poster Presentation, Society for Neuroscience Annual Meeting, San Diego, CA, November 2010.

2007 **Cammarata M**, DeMott T, Dhaher Y. Is motor control gender specific? Poster Presentation, Society for Neuroscience Annual Meeting, San Diego, CA, November 2007.

**Regional/Local**

2022 Arman T, **Cammarata ML**. Intentional Instruction to Promote Writing Development in Pre-Health Undergraduate Students. Platform Presentation, Associated Colleges of the Chicago Area 2022 Scholarship of Pedagogy Symposium, Elgin, IL, November 2022.

2021 Smith MP, Scholtes SA, Bettin NM, Shah MM, **Cammarata ML**. Balancing learning with mental health in an innovative curricular approach. Platform Presentation, Associated Colleges of the Chicago Area 2021 Scholarship of Pedagogy Symposium, Naperville, IL, November 2021.

2021 **Cammarata ML**. Student Response Systems: Choosing the Right Tool for the Job. Platform Presentation, Associated Colleges of the Chicago Area 2021 Scholarship of Pedagogy Symposium, Naperville, IL, November 2021.

**NON-PEER-REVIEWED PUBLICATIONS**

None to Date

**NON-PEER-REVIEWED PRESENTATIONS**

**Regional/Local**

2014 Cammarata M. Advanced uses of Microsoft PowerPoint. Platform Presentation, North Park University Faculty Development Day, Chicago, IL, April 2014.

**FUNDED/IN REVIEW GRANT ACTIVITY**

**Past Activity, Funded:**

6/08-6/10 Arthritis Foundation, Doctoral Dissertation Award

Project: Proprioception and joint stability across planes in knee osteoarthritis

Amount: $60,000

Role: Principal Investigator

**CURRENT/ACTIVE RESEARCH ACTIVITY**

Project: Scholarly Writing Experiences of Undergraduate Students in Health Sciences Related Disciplines

Collaborators: Arman, T

Funding: Internally funded

Status: In development

Dissemination: Potential for presentation

**PROFESSIONAL ORGANIZATIONS/HONOR SOCIETY MEMBERSHIPS**

2008-2010 Member, Graduate Women in Science, Omega Chapter

2006-present Member, American Society of Biomechanics

2002-present Member, Tau Beta Pi Honor Society

**CONSULTATIVE AND ADVISORY POSITIONS HELD**

None to Date

**SERVICE**

**Professional**

2013 Manuscript Reviewer, Ammons Scientific, Ltd.

2009 Manuscript Reviewer, BioMed Central Musculoskeletal Disorders

Manuscript Reviewer, BMJ Open Sport and Exercise Medicine

**Institution**

2022 Secretary, Full Faculty Meetings, North Central College, Naperville, IL.

Moderator and Co-Planner, Exercise is Medicine for Cancer Panel Discussion, North Central College, Naperville, IL.

Master of Athletic Training Program Standardized Patient, North Central College, Naperville, IL.

2021-2022 Guest Lecturer, HTSC 200 Personal and Family Wellness, North Central College, Naperville, IL. Delivered Fall 2021 (Nov 29, 2021) and Spring 2022 (Mar 22, 2022)

Topic: Vaccines: basic immunology, federal regulation, and public health implications.

2014 Member, Student Academic Standing Committee, North Park University, Chicago, IL.

**College/School**

2014 Member, Medical Studies Admission Committee, College of Arts and Science, North Park University, Chicago, IL

Member, Pre-professional committee, College of Arts and Science, North Park University, Chicago, IL

**Program**

2022 Assessment Coordinator, Doctor of Physical Therapy Program, School of Education and Health Sciences, North Central College, Naperville, IL

Coordinator, Academic Performance Committee, Doctor of Physical Therapy Program, School of Education and Health Sciences, North Central College, Naperville, IL.

Member, Scholarship Committee, Doctor of Physical Therapy Program, School of Education and Health Sciences, North Central College, Naperville, IL

Member, Curriculum Committee, Doctor of Physical Therapy Program, School of Education and Health Sciences, North Central College, Naperville, IL

**HONORS AND AWARDS**

2022 Excellence in Blended and Online Education Award, North Central College

Distinguished Contributions by a Half-Time Faculty Member Award, North Central College

2008 Sarah Baskin Award for Excellence in Research, Rehabilitation Institute of Chicago

2007 Clinical Biomechanics Award, American Society of Biomechanics

2004 Emma W. Locke Award Nominee, University of Pittsburgh

Biomechanics Outstanding Student Award, University of Pittsburgh

2000 Freshman Honors in Engineering Program, University of Pittsburgh

**CONTINUING EDUCATION ATTENDED**

2022 North Central College Annual Training, Online, December 2022

Child Abuse: Mandatory Reporting

Drug Free Workplace

Email and Messaging Safety

Sexual Harassment: Staff to Staff

Title IX and Sexual Harassment Prevention for Employees (Full) – Full Course

Bloodborne Pathogen Exposure Prevention

Hazard Communication: Right to Understand (GHS)

Implicit Bias and Microaggression

Associated Colleges of the Chicago Area (ACCA) Scholarship of Pedagogy Symposium, Judson University, Elgin, IL, Nov 5, 2022.

17th Annual Physical Therapy Education Leadership Conference, Milwaukee, WI, October 2022

Sessions Attended:

GRJ Forum and IGNITE Talks: Social Responsibilities of a Profession from a Public Health Lens

Effective Feedback and Difficult Conversations

Competency Based Education: Domains of Competence History and Application to the Physical Therapy Profession.

Creating a Culture of Belonging in Healthcare Education: Long term targeted DEI Development for all Stakeholders

Transforming Society through Competency-Based Physical Therapist Education: Implementation and Adaptive Learning

Mnemonics in Anatomy: Teaching Clinical Anatomy with Mnemonic Learning Strategies

Title IX Workshop, North Central College, August 2022

Student Success & ADA Workshop, North Central College, August 2022

Anatomage User Group Meeting, Santa Clara, CA, July 2022

Sessions Attended:

Keynote: Strategies for using the Anatomage Table in an Integrated Anatomy and Physiology Course

Table Made Easy for Cadaver-Based Courses

Fundamentals of Anatomage Case Library

Keynote: 3D Reconstruction of Post Mortem CT Scans: the Vanguard Forensic Pathology

Keynote: A New Paradigm: Anatomage-based Analytical Skill Development – From Middle to Medical School

Creating anatomical review materials for support student success in Health Occupation Programs

Creating Custom Activities on your Anatomage Table for you A and P Courses

North Central College DEI Faculty Forum: Creating an Equitable Classroom Environment to Improve Student Learning, Engagement, and Support, April 2022 

North Central College DEI Faculty Forum: Identity and the Modern Classroom, March 2022

2021 Associated Colleges of the Chicago Area (ACCA) Scholarship of Pedagogy Symposium, North Central College, Naperville, IL, Nov 6, 2021

North Central College Annual Training, Online, October 2021

Sexual Harassment: Staff to Staff

Coronavirus 108 – The Basics of Vaccines

Child Abuse: Mandatory Reporting

Diversity, Equity, and Inclusion Awareness for Employees

Drug Free Workplace

Title IX: Roles of Employees

Blackboard Digital Teaching Symposium, Online, April 16, 2021

2020 North Central College Annual Training, Online, July 2020

Coronavirus 101 – What You Need to Know

2019 Associated Colleges of the Chicago Area (ACCA) Scholarship of Pedagogy Symposium, North Central College, Naperville, IL, Nov 1, 2019

North Central College Annual Training, Online, October 2019

Implicit Bias and Microaggression Awareness

Sexual Harassment: Staff-to-Staff

Workplace Violence: Awareness and Prevention

Hazard Communication: Right to Understand (GHS)

Title IX and Sexual Harassment

Child Abuse: Mandatory Reporting

Bloodborne Pathogen Exposure Prevention

Email and Messaging Safety

Title IX: Roles of Employees

North Central College Center for Advancement of Faculty Excellence (CAFÉ) Online Pedagogy Institute, North Central College, Naperville, IL, June 10 – August 5, 2019

North Central College Formative Assessment Design Group – Spring 2019

2018 North Central College Annual Training, Online, December 2018

Sensitivity Awareness

Sexual Harassment: Staff-to-Staff

Workplace Violence: Awareness and Prevention

Hazard Communication: Right to Understand (GHS)

Title IX and Sexual Harassment

Discrimination Awareness in the Workplace

Bloodborne Pathogen Exposure Prevention

North Central College Center for Advancement of Faculty Excellence (CAFÉ) Lunch and Learn, North Central College, Naperville, IL, May 29, 2018

Topic: “Dynamic Lecturing: Research-based Strategies to Enhance Lecture Effectiveness” by Harrington and Zakrajsek

2014 North Park University Rising Faculty Book Group, North Park University, Chicago, IL

Topic: “Make it Stick: The Science of Successful Learning” by Brown, Roediger, McDaniel

North Park University Teaching and Learning Cooperative Workshop, North Park University, Chicago, IL

# Topic: “Teaching Naked: How Moving Technology Out of Your College Classroom Will Improve Student Learning” by Jose Antonio Bowen

North Park University Rising Faculty Book Group, North Park University, Chicago, IL

Topic: “Cheating Lessons: Learning from Academic Dishonesty” by James M. Lang

**TEACHING EXPERIENCE**

**University Teaching**

2023 Course Coordinator, Competency Progression Assessment I (DPTD 10), Physical Therapy Department, North Central College, Naperville, IL

2023 Course Coordinator and Instructor, Foundational Movement Science I (DPTD 731), Physical Therapy Department, North Central College, Naperville, IL

2023 Faculty Coach, The North Central College DPT I (DPTD 701), Physical Therapy Department, North Central College, Naperville, IL

2023 Course Instructor, Professional Formation I (DPTD 711), Physical Therapy Department, North Central College, Naperville, IL

2022 Instructor, Exercise and the Brain (KINE 121), Kinesiology Department, North Central College, Naperville, IL

2020-2021 Instructor, Epidemiology for the Health Sciences (HTSC 310), Health Science Program, North Central College, Naperville, IL

2020-2021 Instructor, Research Methods in the Health Sciences (HTSC 315), Health Science Program, North Central College, Naperville, IL

2018-2022 Instructor, Kinesiology (KINE 317), Exercise Science Program, North Central College, Naperville, IL

2017-2022 Instructor, Human Pathophysiology (KINE 280), Exercise Science and Health Science Program, North Central College, Naperville, IL

2013-2014 Lecture and Lab Instructor, Advanced Human Physiology (BIOL 2930), Biology Program, North Park University, Chicago, IL

2012-2014 Lecture and Lab Instructor, Introduction to Human Anatomy (BIOL 1250), Biology Program, North Park University, Chicago, IL

2009 Co-Instructor, Mechanics of Biological Tissues, Biomedical Engineering Program, Northwestern University, Evanston, IL

2006 Graduate Teaching Assistant, Biothermodynamics, Biomedical Engineering Program, Northwestern University, Evanston, IL

**University Advising**

2014-2015 Faculty Advisor, Biology Department, Biomedical Engineering Program, North Park University, Chicago, IL

**University Mentoring**

**Teaching**

2008 Physics Tutor, Northwestern University African American Student Affairs, Evanston, IL

2007-2008 Tutor for high school chemistry, algebra, and geometry, Evanston, IL

2002-2003 Tutor, Freshman Engineering Leadership Team, University of Pittsburgh, Pittsburgh, PA

**Research**

2004 Research and Development Intern, Orthovita, Inc. Malvern, PA

2003 Research and Development Intern, Orthovita, Inc. Malvern, PA

2002 Research Intern, Human Engineering Research Laboratories, University of Pittsburgh, Pittsburgh, PA.