

Curriculum Vitae

Michael E. Buck, PhD, PT, ATC, Cert. MDT, CSCS

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Education

Trident University

5665 Plaza Drive

Cypress, CA 90630

Doctorate of Philosophy - Educational Leadership in Higher Education

Dissertation: The association between student approaches to studying, students' evaluation of teaching effectiveness and measures of student learning.

September 2008

Arcadia University/Beaver College

Glenside, PA

Master of Science

Major: Physical Therapy

Thesis: Training at Different Levels of Volitional Effort

Using Electric Stimulation and Voluntary Isometric Exercise

September 1990

Canisius College

1000 Main Street

Buffalo, NY

Bachelor of Arts

Major: Biology/Athletic Training

December, 1987

Professional Licensure

New York State Board of Education Physical Therapy License, Number 011688

New York State Board of Education Athletic Training License, Number 000397

Certification Information

NATA Athletic Training Certification, Number 02-1536
McKenzie Institute USA, Certified in Mechanical Diagnosis and Therapy of the Spine
National Strength & Conditioning Association - Certified Strength and Conditioning Specialist,
Number 200217811

Employment and Positions Held

Founding Director
Associate Professor with tenure
Division of Physical Therapy
Decker College of Nursing & Health Sciences
Binghamton University
Binghamton, New York 13902-6000
2019-present

Chair and Program Director, Department of Physical Therapy 2018 - 2019
Acting Associate Dean, Health Sciences & Human Performance 2016 - 2018
Coordinator of the Ithaca Seminar Program 2016 - 2018
Clinical Associate Professor 2006 - 20
Clinical Assistant Professor 1998 - 2006
Clinical Instructor 1994 - 1998
Professional Staff/Clinician 1992 - 1994
Ithaca College
Department of Physical Therapy
Ithaca, New York 14850

Legal Case Reviewer & Consultant
Contractual Services for Attorneys
Self-employed 2004-present

Per Diem Home Physical Therapist
Olsten Health Services/Gentiva Health Services
Big Flats, New York 14845
1992 – 2009

Co-Owner/CFO
PTWare Inc.
Medical Educational Software Development Company
1999-2004

Owner
ProActive Physical Therapy
304 Hoffman Street
Elmira, New York 14905
2000-2002

Consulting Physical Therapist
Chemung County Association for Retarded Citizens
Elmira, New York 14902
1991-1992

Peer-Reviewed Publications

Cherry, J., Singh, G., Buck, M. (2024). Psychological flexibility as a mediator in the relationship between resilience and academic burnout among Doctor of Physical Therapy students: A structural equation modeling study. *Health Sci Rep.* 2024 Nov 21;7(11): e2291

Buck, M. (2008). The association between student approaches to studying, students' evaluation of teaching effectiveness and measures of student learning. Dissertation, Touro University International, California, United States. ProQuest database.

Buck, M. Textbook review: Low Back Syndromes: Integrated Clinical Management. *Physical Therapy*, 86, 12 p. 1712, 2006.

Buck, M. Textbook review: The Lumbar Spine: Mechanical Diagnosis and Therapy, ed 2 Vols 1 and 2. *Physical Therapy*, 84, 8 p765, 2004.

Buck, M. Ciccone, C.; "Evidence in practice. Does evidence exist on whether specific interventions can improve adherence to a home exercise program in a patient with intermittent claudication?" *Physical Therapy*, Volume 84, No 5, 2004 p 465-473.

"The McKenzie Method - Clinical Assistant: The Lumbar Spine" CD-ROM. PTWare, Published September 2000. Available from the McKenzie Institute, USA.

Published Abstracts of Peer-Reviewed Scientific and Professional Presentations

King, D, Sigg, J, Belyea, B, Hummel, C, and Buck, M. Effects of fatigue on lower extremity joint kinematics during a stop and go landing task. Proceedings from 30th American Society of Biomechanics Annual Meeting, Blacksburg, VA, September 6-9, 2006.

Impact mechanics during stop and go tasks under fatigued and non-fatigued conditions. Proceedings from: The XXth Congress of the International Society of Biomechanics and 29th Annual Meeting of the American Society of Biomechanics, Cleveland, Ohio. July 2005. King, D., Sigg, J. Belyea, B., Hummel, C., Buck, M. (2005).

Peer-Reviewed Scientific and Professional Presentations

Bair WN, MacDonald G, Mooney K, Buck M. Community Characteristics of US DPT Programs - Rurality and Selective Social Determinants of Health. Educational Leadership Conference, Kansas City, Mo. October 2025

Buck M, Komor T, Mooney K, Romano D "Travelling the Road to Competency-Based Education" Moving Forward While Designing Backwards" Educational Session, Educational Leadership Conference, Oakland, Ca October 2024

Komor T, Buck M "UnGrading and Beyond the Numbers: The Benefits of Criterion-Based Grading in Physical Therapy Education" Poster, Educational Leadership Conference, Philadelphia, Pa. October, 2023.

Buck M, Gilliland S. "Invigorating your Journey Toward Scholar" Educational Session, Educational Leadership Conference, Philadelphia, Pa. October, 2023.

Gilliland S, Buck M, Simonson, S. "A Structured Framework to Support Excellence in Scholarly Teaching and Assessment" Educational Session, Educational Leadership Conference, Philadelphia, Pa. October, 2023.

Dorsey J, Buck M, "Designing and Improving Assessment of Student Learning Outcomes for Occupational Therapist and Occupational Therapy Assistant Educational Programs." Conference Workshop, AOTA Annual Conference, Salt Lake City, Utah. April, 2018.

Buck M, Dorsey J. "From Mission to Outcomes: Designing and Improving Assessment for Education Programs" Pre-Conference Workshop, Education Section, APTA CSM 2017, San Antonio, Texas.

Johnson D, Buck M. Making General Education Reform Stick: Using an Organizational Change Model to Guide Implementation. AAC&U's 2016 conference on General Education and Assessment "From My Work to Our Work" Pre-conference invited workshop. New Orleans, La. Feb 18, 2016

Fernandez-Fernandez A, Smith K, Buck M, Stern D, Hotchkiss M, Hettrick H, Smith N. Assessing Student Interpersonal Skills Using Point of View Devices - The Role of Perspective. APTA Combined Sections Meeting 2016, Anaheim, California February 17-20, 2015.

Fernandez-Fernandez A, Stern D, Smith K, Hettrick H, Buck M, Hotchkiss M, Smith N. Wearables and Point-of-View Devices: Applications in Health Sciences and Medicine. Biomedical Engineering Society 2015 Annual Meeting - Device Technologies and Biomedical Robotics track, October 7-10, 2015 Tampa, Florida.

Hotchkiss M, Stern D, Fernandez-Fernandez A, Buck M, Smith K, Hettrick H, Smith N, Mancuso F, Blackman A. It's how you look at it: Assessment of interpersonal skills in PT students using point-of-view technology vs traditional recording. Education Leadership Conference 2015 – ACAPT, Baltimore, Maryland, October 2-4, 2015.

Buck M, Fell N, Levine D. Google Glass in Physical Therapy Education and Clinical Practice. APTA Combined Sections Meeting 2015, Indianapolis, Indiana, February 2015.

Peer-Reviewed Scientific and Professional Presentations (continued)

Buck M. "Imagining the Glassroom" Presented at The Teaching Professor - Technology Conference, Denver, Colorado. October 11, 2014.

Buck M, Blackman A, Mancuso F. "Use of Google Glass to Enhance Self-Assessment of Interpersonal Communication Skills" Whalen Symposium, Ithaca College. April 10, 2014.

Buck M, Metzger, R. "Student Attitudes Toward the Use of Electronic Devices to Support Learning" Whalen Symposium, Ithaca College. April 10, 2014.

Johnson D, Buck M. Making General Education Reform Stick: Using an Organizational Change Model to Guide Implementation. Association of American Colleges & Universities 2015 Network for Academic Renewal General Education and Assessment Conference:

From Mission to Action to Evidence: Empowering and Inclusive General Education Programs. Kansas City, Mo. February 20, 2015

Buck M, Pfrehm J, Frith A. "The Technology that Unites Us: Using Web 2.0 for Teaching in the Humanities, Sciences, and Professional Domains." 5th Annual SUNY Fredonia Teaching & Learning Conference, August 15, 2011.

Buck M, Pfrehm J. "Incorporating Web 2.0 Technology in the Classroom to Enhance Student Learning" Pre-Conference Workshop APTA CSM 2011.

Buck M, Belyea B, McNamara C. "SimPT: Developing and Using a Virtual PT Clinic to Enhance PT Student Education." APTA Combined Sections Meeting, 2011.

Buck M, Pfrehm J, Frith A. "The What/How/Why of Learning via iTunes U: Three Ithaca College Professors' Perspective" 4th Annual SUNY Fredonia Teaching & Learning Conference, July 16th.

Buck M. "Orthopedic Clinics Roundtable Discussion – The Spine" Invited panelist, APTA National Conference, Indianapolis, Indiana, June 2000.

Buck M. "The McKenzie Method: Computer-Based Clinical Assistant" McKenzie Institute North American Conference, Orlando, Florida, June 2000.

Buck M. "The Really Live Chat Room" Roundtable Discussion on Web-Based Instruction in Higher Education. OnLine Learning '99, Los Angeles, CA. October 19, 1999.

Buck M. "The McKenzie Approach Computer Software" APTA Conference, Washington D.C. June 1999.

Belyea B, Buck M, Pagliarulo M. "The Computer and Physical Therapy Education - PowerPoint, Self-Instruction Modules and the World Wide Web". NYPTA Annual Conference October 17, 1998.

Beissner K, Buck M. "Use of Functional Outcome Measures in Home Health Care - Practical Application" APTA Annual Conference, June 7, 1998.

Buck M "A Comparison of Strength Training at Different Levels of Volitional Effort Using Electric Stimulation vs. Voluntary Exercise". World Confederation for Physical Therapists, Washington, DC, June 30, 1995.

Grants Received

CLT Pilot Grant for integrating FATE into peer assessment of teaching.
2023 - \$5000 in collaboration with the MPH Program

Dr. G. Clifford & Florence B. Decker Foundation
2022 - \$780,628 to equip an Anatomy & Physiology Teaching Laboratory
2021 - \$437,266 (of \$757,527) to equip Motion Analysis Research Laboratory

Ithaca College Instructional Development Grant
2018 - \$1500 Team Based Learning Workshop
Hosted at Ithaca College with matching funds from the HSHP Dean's Office

Ithaca College Academic Challenge Grant
2014 - \$3500 Google Glass for Assessing Interpersonal Skills

Ithaca Seminar Course Development Grant
2012 - \$3250 – The Art of Being Right

(IC)² Ithaca College Integrated Curriculum Demonstration Projects
2010 - \$16000 Peer Mentoring Program

Ithaca College Instructional Development Grant
2005 - \$1200 Funds used to support attendance at the "Teaching Manipulation" workshop. March 2005
1999 - \$1200 Funds used to support attendance at OnLine Learning '99 Conference and Continuing Education Program, Los Angeles, Ca.
1995 - \$1300 Funds used to attend Course D, McKenzie Institute

Ithaca College Instructional Technology Grant
1998 - \$900 Funds used to purchase Macromedia Director 6.0 software for the development of computer-based learning modules.

Fraternal Order of the Eagles - Arthritis Foundation
1994 - \$3000 Research Grant for Ithaca College Department of Physical Therapy
1992 - \$5000 Research Grant for Arnot Ogden Medical Center PT Department
1991 - \$2000 Research Grant for Arnot Ogden Medical Center PT Department

Non-Peer Reviewed Publications

Buck M. "How Technology is Being Used in PT and PTA Education"; Published interview: *PT in Motion*, 3(9), 2011, 18-24.

Non-Peer Reviewed Publications (continued)

Buck M. "Are We Creating an Obstruction to Movement?" Invited Editorial. The McKenzie Institute, USA Journal Vol. 13 no. 1 2005.

Buck M. "Clinical Success: The Need to Educate our Referral Sources" The McKenzie Institute, USA Journal Vol. 12 no. 4, 2004.

Buck M. "In the Clinic: Empowerment" The McKenzie Institute, USA Journal Vol. 12 no. 1 2004.

Buck M. "Learning Styles & Clinical Teaching" The McKenzie Institute, USA Journal Vol. 11. no. 4, 2004

Buck M. "Teaching & Learning in the Clinic" The McKenzie Institute, USA Journal Vol. 10 no. 1 2003.

Buck M. "Thinking McKenzie" The McKenzie Institute, USA Journal Vol. 10 no. 3 2002.

Invited Professional Presentations

"Google Glass in the College Classroom" presented with Bryan Roberts at the Center for Faculty Excellence, Ithaca College. October 7, 2014

"Examples of Technology in Education" presented at *From Clinic to Classroom: A Roadmap for Success*. A Faculty Development Workshop for New PT and PTA Faculty. Ithaca College, June 19, 2014

"Welcome to Glass" presented with Calvin Chestnut at EdTech Day, Ithaca College. March 27, 2014.

"Using the iPad in lecture and laboratory with the Reflector App" presented at the Center for Faculty Excellence, Ithaca College, December 6, 2012.

"Hard to Assess Learning Outcomes" presented with Aimee Dars Ellis Assistant Professor, Department of Management Ithaca College at the Center for Faculty Excellence, Ithaca College November 14, 2012.

"Using technology to support your teaching" presented at *From Clinic to Classroom: A Roadmap for Success*. A Faculty Development Workshop for New PT and PTA Faculty. Ithaca College, July 21, 2011.

"The Effect of *The Stabilizer* Training Device on the Baseball Swing Mechanics" Graduate Research Study. Buck M, Barrett C, Geane K, Giunta M. Rochester, NY, April 29th, 2010.

Podcasting 101: A Workshop for Faculty. Ithaca College, May 2009

The Gluteus Medius – Its Role in Gait Balance and Function. Gentiva Health Services professional education series. Binghamton, NY, October 2008.

Invited Professional Presentations (continued)

Clinical Applications of Taping for the Lower Extremity” Southern Tier District of New York Physical Therapy Association. Ithaca, New York March 2008

“Athletic Taping Procedures - Clinical Applications” Invited Speaker New York State Physical Therapy Student Conclave, Ithaca, New York April 2008.

“Effects of medium in which a home exercise program is presented on adherence and technique” Southern Tier District NYPTA, Ithaca, NY April 2005. (Independent Study – Drossos P, Krakauer S, McCormick K, Belyea B, Buck M)

“Mechanical Diagnosis & Therapy of the Lumbar Spine” Invited Speaker Ithaca College Student Physical Therapy Club continuing education workshop April 2005

Continuing Education Workshops Organized

“Introduction to Team-Based Learning” Planned and hosted a two-day workshop to introduce faculty at Ithaca to TBL pedagogy. Workshop taught by Dr. Billie Franchini, University at Albany. May 2018.

“McKenzie Institute Course A” – Host/Co-sponsor continuing ed for ICPT Students Ithaca College, Ithaca, NY. November 4-6, 2016.

“Upper Extremity Rehabilitation: Application of Gross Anatomy to Neurodynamics & Fascial Tissue Dysfunction” Southern Tier District, NYPTA Continuing Education Ithaca College, Ithaca, NY. April 23, 2016.

Current/Active Research Activity

1. Co-investigator
Nature: To develop a comprehensive competency-based education (CBE) framework for Binghamton University that is aligned to the DPT curriculum and a mechanism for monitoring/measuring student success in progression toward accomplishing competencies. To develop a tracking mechanism and dashboard to allow faculty to know how students are progressing and allow students to self-monitor progress.
Funding: None currently
2. Co-Investigator
Nature: Investigation into the efficacy of using whole body electrical stimulation to improve strength and functional activity in an older adult population with sarcopenia.
Funding: None currently
3. Co-Investigator
Nature: Integrate the Framework for Assessing Teaching Effectiveness (FATE) into faculty development and faculty assessment in a DPT program.
Funding: NSF submitted with Simonsen

Membership in Scientific/Professional Honorary Societies

Alpha Eta Honor Society, 2014 - present
American Physical Therapy Association, 1993 - 2000, 2007 – present
National Strength & Conditioning Association, 2002 - present
NYS Physical Therapy Association, 1993 - 2000, 2007 - present
National Athletic Trainers' Association, 1986 - present
McKenzie Institute, USA 2001 - 2005

Professional Activities/Offices Held

APTA – Academy of Education Director of Scholarly Engagement June 2024-present
APTA – Academy of Education Research Committee Chair 2020-present
Southern Tier District of NYPTA District Co-Chair 2015 - 2019
NYPTA New York State Delegate, Alternate APTA House of Delegates 2015 - 2016
Journal of the McKenzie Institute, USA Editorial Board 2001 - 2006

Community Service

Horseheads Central School District Board of Education 2006-2012, Vice President 08-12
CPR Instructor, Arnot Ogden Medical Center Department of Education 1992 - present
Group WorkCamps - Camp Volunteer Staff 2006 - present

Service to College/School/Department on Committees/Councils/Commissions

University Budget Review Committee 2021 - present
University Faculty Senate 2024 - present
Decker College By-Laws Committee. 2019 – present
Decker College Initiating Personnel Committee
Interprofessional Education Curriculum & Assessment 2019 – 2022
Dean's Ad Hoc Committee for Graduate Curriculum 2019 – 2024

Honors and Awards

Alpha Eta Honor Society, Faculty inductee 2014
HSHP Dean's Award for Excellence & Productivity in Teaching, Scholarship and Service 2012-2013
Gentiva Health Services Employee of the Month, July 2002 & July 2005
E. Jane Carlin - Academic Excellence & Clinical Promise, Beaver College, 1990

Teaching Responsibilities in the Entry-Level Program for Academic Year 24-25

Term 1: Professional Development I Learning and Teaching
Term 4: PT-630 Professional Development III - Ethics and Moral Agency
Term 5: PT-642 Physical Agents & Electrotherapeutic Interventions