

Karen E. Furgal, PT, DPT, PCS

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Western Kentucky University

Education:

DPT	State University of New York, Stony Brook, NY	2008	Physical Therapy
BS	State University of New York, Buffalo, NY	1991	Physical Therapy

Licensure Information/Registration Number: Kentucky #006417, New York #012593-1

Employment and Positions Held:

Academic Employment:

Jan. 2017—Present	Director of Clinical Education , Entry-Level Doctor of Physical Therapy Program, Western Kentucky University, Bowling Green, KY (<i>Appointment starting January 1, 2017</i>)
Aug. 2014—Present	Assistant Professor , Entry-level Doctor of Physical Therapy Program, Western Kentucky University, Bowling Green, KY
Mar. 2008 – October 2014	Clinical Assistant Professor , Adjunct Faculty, Transitional Doctor of Physical Therapy Program, Stony Brook University (SUNY), Stony Brook, NY; Pediatrics
Jan. 2014 – June 2014	Teaching Assistant , Entry-level Doctor of Physical Therapy Program, Stony Brook University (SUNY), Stony Brook, NY; Motor Learning (pediatrics/neurology)

Clinical Employment:

Oct. 2016—Present	Per Diem Physical Therapist , Bowling Green Nursing & Rehabilitation, Geriatric Skilled Nursing Facility, Bowling Green, KY
Feb. 2013 – May 2014	Per Diem Physical Therapist , Light House Physical Therapy, Out-patient adult, geriatric and pediatric orthopedics, Port Jefferson Station, NY
Sept. 1994 – June 2014	Pediatric Physical Therapist , Eastern Suffolk BOCES, School-based neuro pediatrics, Patchogue, NY
Sept. 2009 – June 2011	Lead Physical Therapist , Eastern Suffolk BOCES, Patchogue, NY
Aug. 1994 – Sept. 1995	Staff Physical Therapist , Sports Medicine Resource, Outpatient orthopedics all ages, Stony Brook, NY
Jan. 1994 – Aug. 1994	Staff Physical Therapist , Sports Medicine Resource, Outpatient orthopedics all ages, Port Jefferson, NY
June 1992 – Jan. 1994	Staff Physical Therapist , Huntington Hospital, In-patient and out-patient all ages, Huntington, NY

June 1991 – June 1992

Staff Physical Therapist, Robinson Memorial Hospital, In-patient and out-patient all ages, Ergonomic assessments and Education Programs, Ravenna, Ohio

Open Access/Non-Peer Reviewed Publications

- **Furgal KE**, Harrington J, Young SN. The Effect of Elastic De-Rotation Straps on Functional Ambulation in Cerebral Palsy: A Clinical Case Report. *EC Neurology-Open Access* 3.4 (2016):438-444.
- **Furgal K**, Norris E. Feasibility and Implementation of a Video-Based Yoga Program in a Special Education Setting Using a Collaborative Model. *MOJ Yoga & Physical Therapy*. (2016) 1:1.0004.
- Young SN, **Furgal K** (2016) Exercise Effects in Individuals with Autism Spectrum Disorder: A Short Review. *Autism-Open Access*. (ACCEPTED 06/13/2016)
- Young SN, **Furgal K** (2016) Effectiveness and Implication of Sensory Integration Therapy on School Performance of Children with Learning Disabilities. *Int J Neurorehabilitation* 3:198. doi:10.4172/2376-0281.1000198

Manuscripts in Submission

- Garrett-Wright D, **Furgal K**, Haughtigan K, Link K. Change in Physical Therapy Students' Attitudes Toward Poverty Following a Poverty Simulation. *Journal of Physical Therapy Education (JOPTE-03-17-0022*, 24 March 2017, edits complete 06/2017)
- VanWye R, Norris E, Wallmann H, Furgal K. Physical therapist examination reveals a nerve injury in a patient with a chief complaint of knee pain following dilation and curettage, a case study. *Physiotherapy Theory and Practice* (ID: UPTP-2017-0262, 26 May 2017)
- **Furgal K**, Norris E, Young S, Wallmann H. The Minimal Detectable Change of the Professionalism in Physical Therapy Core Values-Self-Assessment Tool. In preparation for submission to *Journal of Allied Health*.

Manuscripts in Preparation

- Norris B, Harlan J, Dahl D, Boone L, **Furgal K**. Spatiotemporal gait parameters during short and long distance walking tests in healthy young and older adults. In preparation for submission to *Geriatrics*.
- Young S, Norris E, **Furgal K**, Wallmann H. The Effects of a Community Service Project on the Development of Professional Behaviors in Physical Therapy Students. In preparation for submission to *Journal of Allied Health*.

Published Abstracts

- Steenbergen K, Furgal K, Krimple E, Perkins B. Perceived Delays and Causative Factors in Pediatric Wheelchair Procurement. Abstracts of the Academy of Pediatric Physical Therapy Poster Presentations at the Combined Sections Meeting. Pediatric Physical Therapy: [January 2017 - Volume 29 - Issue 1 - p E37](#). doi: 0.1097/PEP.0000000000000357
- Harrington J, Furgal K, Bouchard E, Lewis A. Clinical Decision Making: Orthotic Device Use to Treat Toe Walking in Children Diagnosed with Autism. Abstracts of

Poster Presentations at the 2016 Academy of Pediatric Physical Therapy Annual Conference. Pediatric Physical Therapy: [Winter 2016 - Volume 28 - Issue 4 - p E2](#)
doi: 10.1097/PEP.0000000000000323

- Harlan J, Norris E, Dahl D, Gunn L, Furgal K. Spatiotemporal gait parameters during short and long distance walk tests in healthy young and older adults. J of Geriatric Physical Therapy. 2016; 39: E64.

Peer-Reviewed Presentations (submitted/accepted):

- Norris E, (3 graduate students), **Furgal K**, Wallmann H. “Limb Dominance and Symmetry During Functional Performance Tests.” (CSM 2018)

Peer-Reviewed Presentations (completed):

- Steenbergen I, **Furgal K**, Krimple E, Perkins B. Perceived Delays and Causative Factors in Pediatric Wheelchair Procurement. APTA CSM, February 2017, San Antonio, TX.
- Harrington J, **Furgal K**, Bouchard E, Lewis A. Clinical Decision Making: Orthotic Device Use to Treat Toe Walking in Children Diagnosed with Autism. APTA Academy of Pediatric Physical Therapy Annual Conference (SoPAC) November 2016, Keystone, CO.
- Norris E, Harlan J, Dahl D, Gunn L, **Furgal K**. Stability and Reliability of Spatiotemporal Gait Parameters and Gait Variability During a Long Distance Walk Test. APTA NEXT Conference, June 2016, Nashville, TN.
- Norris E, Harlan J, Dahl D, Gunn L, **Furgal K**. Spatiotemporal gait parameters during short and long distance walk tests in healthy young and older adults. APTA Combined Sections Meeting, February 2016, Anaheim, CA.

Non-Peer-Reviewed Presentations:

- *Effects of Community Service Projects on the Development of Professional Behaviors in Physical Therapy*—CHHS Reach Week in Bowling Green, KY April 2016
- Functional and Fun—KPTA Student Enclave in Louisville, KY September 2015
- Work Place Practices—KY Lake Region AOHN--Bowling Green, KY September 2015
- Motor Learning Techniques—ESBOCES in Holbrook, NY March 2014
- Wheelchairs and Bus Safety for Bus Drivers—Multiple sites ESBOCES September 2008
- Fitness and Children with Disabilities—Westhampton Beach, NY November 2014
- Orthotics—Westhampton Beach, NY November 2014
- Wheelchair Alignment and Maintenance—ESBOCES in Holbrook, NY January, 2011
- Safe Lift Guidelines—Westhampton Beach, NY October 2009
- Ergonomics and Safe Lifting Techniques—Westhampton Beach, NY November 2008
- Ergonomics and Safe Lifting Techniques—Bellport, NY November 2008
- Autism Spectrum Disorders—Westhampton Beach, NY June 2008
- Weight Bearing and Bone Density—ESBOCES in Holbrook, NY June 2007
- Evidence-Based Practice in Pediatrics—ESBOCES in Holbrook, NY October 2008
- Integrating Curriculum into PT Sessions—ESBOCES in Holbrook, NY June 2003

Grant Activity

- (U-G Student), Tinius R, **Furgal K.** (2017). The relationship between maternal physical activity and infant motor development. Western Kentucky University Faculty-Undergraduate Student Engagement (FUSE) Award (17-FA206). Amount: \$4,000.00.
- Young S, Norris E, **Furgal K.** (2015). Effect of a Community Service Project on the Development of Professionalism in Student Physical Therapists. Western Kentucky University College of Health and Human Services Research and Grants Committee. Amount: \$2,291.00.

Membership in Scientific/Professional Organizations:

- Member, American Physical Therapy Association (APTA), 2013 – present
- Member, Pediatric Section APTA, 2013-present
- Member Geriatric Section APTA, 2014-present
- Member Education Section APTA, 2014-present
- Member, NYS Chapter APTA, 2013-2014
- Member, KY Chapter APTA, 2014-present
- American Board of Physical Therapy Specialties (ABPTS)
 - Pediatric Certified Specialist Certification #44244, May, 2014-present

Awards

- Sigma Theta Tau International Honor Society of Nursing: Friend of Nursing Award, April, 2017
- Down Syndrome of South Central Kentucky: Buddy House Educator of the Year Award, May, 2017

Community Service:

Center for Courageous Kids

June, 2016

- Organized and accompanied student volunteers to work at a camp for children with special health needs on June 5 and June 12

Health Department Book Drive (BRIGHT)

June, 2016

- Student project to collect children's books to promote literacy
- Collected 150 books and delivered them to the Health Department for disbursement

Buddy House—Ongoing service

- Student engagement in “Hop, Skip, and Jump” gross motor group
- Consultant role in the ordering of appropriate equipment for young participants, as well as for Cross Fit for adult populations
- Buddy Walk 2016

Mennonite Community Health Lectures/Postural Screening (Institute for Rural Health)—

December, 2015-Present

- Perform postural screenings
- Perform direct access musculoskeletal examinations and treatment in a collaborative setting, with nurse and physician, as well as designated community liaison
- Participate in health education to an underserved community
 - Topics:

- Musculoskeletal Injuries
- Posture
- Scoliosis

Chapter Student Liaison Committee KPTA—March, 2015-Present

- Assist with student related activities in the KPTA

BRIGHT Coalition –January 2015 – Present

- Coalition tasked with determining the combined public health needs of educational, public health, school-based and rural community at large
- Assist in creating action plans for implementing community healthcare initiatives, such as smoking cessation on school campuses

Special Olympics Young Athletes Program-October 2014—Present

- Co-founding Director of the Bowling Green Young Athletes Division, which serves children with intellectual disabilities in children aged 2-7 years in a community-based setting
- Emphasis on skill development and physical activity/fitness with parent interaction for carry over
- Organize student volunteers to participate in Special Olympics events
- Assist with Special Olympics Events

Kelly Autism Center-September 2014 – December 2014

- Volunteer in direct care during the after school program
- Mentoring Bachelor of Education students

Private Pro-Bono Professional Service-June 2004 – Present

- No-cost PT as a maintenance service to pediatric and geriatric patients with chronic physical impairments
- Home-based education to facilitate balance between parent role and skill carry-over at home

Welcome INN (Inter Faith Nutrition Network) 1999-2001

- Co-founding director of a soup kitchen/bi-monthly, feeding 20-40 people each time

Christ Church United Methodist—2002-2009

- Sunday school teacher for pre-kindergarten, first grade, fourth grade

Cub Scouts, Coram Pack 64—September 2006-June 2008

- Assistant Den Leader

Christ Church United Methodist—August 2004-August 2005

- Served as Chairperson on the Missions Committee, tasked with determining division of funds to various global missions projects

Services to the University/College/School on Committees/Councils/Commissions:

- **CHHS Academic Complaint Committee September 2017 - Present**
- Big Red School Physical Therapy Consultant March 2017-May 2017
- CHHS Collaboration Sub Committee on Collaborative Projects November 2016-Present
- CHHS Workload/Overload Workgroup April 2016-Present
- WKU DPT Scholarship Committee, May 2016-Present
- CHHS Awards Banquet Committee, February 2015-April 2016
- DPT Program Academic Advisor, August 2014-Present
 - Class of 2020: To be determined
 - Class of 2019: 4 students

- Class of 2018: 2 students
- Class of 2017: 10 students
- DPT Academic Review Committee for counseling students at risk for academic probation, as well as review cases of academic probation at WKU, August, 2014-Present
- Admissions Committee to assist with the process of reviewing applications prior to conducting interviews of candidates qualified for the WKU DPT Program, November, 2014-Present
- Curriculum Committee for DPT Program to review curriculum needs, August 2014-Present
- DPT White Coat Ceremony Committee, September 2014-May 2015
- DPT Ramp it Up, January 2015-August 2016
- DPT Peer Mentoring Committee (Chair), January 2015-Present
- Third Reader WKU Honors College Capstone Experience/Thesis, Spring 2016
- Third Reader WKU Honors College Capstone Experience/Thesis, Spring 2015
- Multiple interview committees to hire administrative and therapeutic staff, 2005-2008
- Transition Planning Committee—Sub Committee tasked with educational transition among different program settings, 2009
- Wheelchair needs committee—leadership role in developing a procedure for performing light maintenance and growth in the school based setting, October 2011
- NYS PT/PTA Practice Act Update Implications for Supervision at ES BOCES—Leadership role, Fall 2007

Professional Service

Academy of Pediatric Physical Therapy

- Peer Mentor for School-Based Practice, Fall 2016-present

Clinical Education

- Ohio Kentucky Consortium of Clinical Education, Award Selection Committee (Karen O’Loughlin Clinical Instructor Credentialing Award), March, 2017

Editorial

- Theime Publishers Review, reviewed 2 book proposals, June-July 7, 2016
- Manuscript reviewer for *Physical Therapy in Sport*, March, 2015- Present
National Physical Therapy
- SACE Item Writer appointment 1/1/16-12/31/17 –Pediatric Certified Specialist Exam

Professional Conferences Attended:

- 2017 Kentucky Conclave—Bowling Green, Kentucky September, 2017
(Kentucky Physical Therapy Association, 5.5 CEUs)
- Activity-Focused Motor Interventions with Children in Preschool and School-Based Settings (APTA Learning Center) June, 2017
- Early Intervention Therapist & Teacher Online Cooperative April, 2017
(Alberta Infant Motor Scales-AIMS, 2 Contact Hours)
- Academy of Pediatric PT Annual Conference—Keystone, Colorado November, 2016
(1.8 CEUs)
- Reconsidering Spasticity as a Management Target in Children with Diplegic CP Dillon, CO (.43 CEUs) November, 2016
- Using the APTA Physical Therapist CPI for Students September, 2016

- (2.0 Contact hours)
- New Faculty Development Workshop—Chicago, Illinois July, 2016
(20.75 Contact hours)
 - NEXT Conference and Exposition—Nashville, Tennessee June, 2016
(0.95 CEUs)
 - Combined Sections Meeting of the APTA—Anaheim, California February, 2016
(1.8 CEUs)
 - Motor Learning, 2nd Edition—APTA Learning Center January, 2016
(0.2 CEUs)
 - Professional Learning Community Fall, 2015
Strengthening Classroom Teaching—Reflection & Growth—Center for Faculty Development and Growth
 - The Obesity Epidemic: Health Consequences and Implications May, 2015
For Physical Therapy—APTA Learning Center
~Course Objectives Applicable to DPT 727 Health and Wellness and DPT 779 PT Across the Lifespan
 1. Discuss the etiology, extent and impact of obesity in the US
 2. Explain how the BMI can be used to classify adults as being normal weight, overweight or obese
 3. Understand the physiological, psychological, and public health consequences of obesity and how they may affect delivery of health care, including physical therapy
 4. Describe the implications of obesity for approaches to examination, evaluation, diagnosis, prognosis and intervention.
 5. Identify research needs
 - 2015 Winter Workshop—WKU, Bowling Green, KY January, 2015
 - CAPTE Self-Study Workshop—Indianapolis, Indiana February, 2015
 - Combined Sections Meeting of the APTA —Indianapolis, Indiana February, 2015
(1.9 CEUs)
 - *Continuing Education Workshops Attended at CSM, with content relevant to teaching responsibilities at WKU (DPT 727 HEALTH AND WELLNESS highlighted)
 - Neonatal Care Path, Part 1 (DPT 779)
 - Neonatal Care Path, Part 2 (DPT 779)
 - Pediatric Obesity Part, 2 (DPT 779, DPT 727)
 - SCI Seating and Mobility Tech Needs (DPT 715, DPT 771)
 - Exercise for the Older Adult with Chronic Conditions (DPT 779, DPT 727)
 - GeriATHletics: PT as the Resource for Aging Athletes (DPT 727, 779)
 - Neuroplasticity in the Infant Brain, Part 1 (DPT 779)
 - Neuroplasticity in the Infant Brain, Part 2 (DPT779)
 - Specialist Certification Examination Item Writing Overview (online) March, 2015
 - WKU Online Teaching Certificate Program—Bowling Green, KY April, 2015
 - APTA Clinical Instructor Credential Course—Stony Brook, NY May, 2014
 - PT Management of Children with Cancer—APTA Learning Center February, 2014
 - Selecting Meaningful, Standardized Pediatric Outcome (Online)

- Measures for Children with Disabilities—APTA Learning Center (online) March, 2014
- Advanced Clinical Practice in Pediatric PT—Denver, CO September, 2013
 - Topics pertaining to DPT 779, with additional content application noted in DPT 727 Health and Wellness**
 - Cardiopulmonary Examination and Intervention
 - Musculoskeletal Development and Orthopedic Practice
 - Fitness for Children with Disabilities (**DPT 727)
 - School-Based Services
 - Orthotics
 - Standardized Measures of Motor Development and Function
 - NICU
 - Early Intervention
- Observation Northshore Orthotics—Port Jefferson Station, NY Dec., 2012/13
- Global Solutions for Hypotonia From the Ground Up—Long Island, NY April, 2012
- DIR/Floortime for Autism and Spectrum Disorders—Ronkonkoma, NY March, 2011
- Wheelchair Seating and Positioning Strategies—Ronkonkoma, NY Dec., 2010
- Dynamic Approaches to the Orthotic Management of Pediatric Gait—Islandia, NY September, 2010
- Neuroanatomy: A Practical Review for Clinicians—Hempstead, NY June, 2010
- Gait Biomechanics and Orthotic Applications—Port Jefferson, NY October, 2009
- Manual Therapy with the NDT Approach in the Treatment of CP—Ronkonkoma, NY October, 2006
- Job Analysis and Ergonomic Assessment—Boston, MA April, 2000
- The McKenzie Institute: The Spine Part B-Cervical/Thoracic—Bayshore, NY May, 1994
- The McKenzie Institute: The Spine Part A-Lumbar—Syracuse, NY June, 1993
- The Evaluation & Treatment of Ataxia and Other Balance Disorders January, 1992
- Myofascial Release 1—New York, NY November, 1991
- Industrial Back Injury Prevention & Management—Buffalo, NY October, 1991

Courses taught at State University of New York at Stony Brook:

<i>Number</i>	<i>Title</i>	<i>Times Taught</i>	<i>Credits</i>
HAY 622	Current Topics in Pediatrics	7	3 Credits
HAY 534	Motor Learning & Motor Control	1	3 Credits

Courses currently teaching/scheduled to teach at Western Kentucky University

<i>Number</i>	<i>Title</i>	<i>Times Taught</i>	<i>Credits</i>
DPT 711	Physical Assessment I	2	1 Credit
DPT 712	Physical Assessment II	2	2 Credits
DPT 713	Physical Assessment III	3	3 Credits
DPT 715	Patient Care Techniques	2	3 Credits
DPT 771	Neurologic Rehabilitation (Lab)	2	4 Credits
DPT 779	Physical Therapy across the Lifespan	3	3 Credits
DPT 727	Health Promotion and Wellness	2	2 Credits
DPT 754	Clinical Education IV	1	9 Credits

DPT 784	Research in Physical Therapy IV	1	1 Credit
DPT 785	Research in Physical Therapy V	1	1 Credit
DPT 705	Topics in Physical Therapy	1	1 Credit

Guest Lecture and Collaborative Teaching Efforts

<i>Number</i>	<i>Lecture Title</i>	<i>Times Taught</i>	<i>Hours</i>
DPT 772	Pediatric Cardiopulmonary (Lecture)	1	3.5 hours