While the Occupational Therapy Education Program at the Medical University of South Carolina has long been recognized for excellence in education and service, they are also dedicated to achieving national distinction for their research and scholarship. Their recent accomplishments in this area include the development and testing of a virtual reality application to enhance upper extremity recovery post-stroke, a new mobile application to teach goniometry, documenting outcomes from a unique pediatric constraint induced movement camp and securing new funding from the Patient Centered Outcomes Research Institute. The faculty and students in the OT Program are also leaders in interprofessional education who are committed to excellence in service both locally and internationally. I firmly believe that our faculty and students are changing what is possible in occupational therapy education, service and research!

Lisa K. Saladin, PT, PhD, Dean and Professor, College of Health Professions

The Division of Occupational Therapy is a multidimensional asset to the Department of Health Professions. The faculty are innovative teachers and their scholarship continues to develop. The excitement the faculty expresses for their work is inspiring. There always seems to be a positive energy that is good not only for the OT Division but also for the rest of the Department and College. Recent internal and external faculty hires are positioning the OT Division to be a major player in education, research and in local and global service. Under Dr. Velozo’s leadership the future has a very high ceiling. This was certainly validated by three of the faculty just being named to the AOTA Roster of Fellows.

Rick Segal, PT, Ph.D., FAAPTA, Chair, College of Health Professions

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**CORE FACULTY**

Craig Velozo, PhD, OTR/L
Director and Professor

Peter Bowman, OTD, OTR/L, OT(C)
Assistant Professor

Hazel L. Breland, PhD, OTR/L
Assistant Professor
Academic Fieldwork Coordinator

Nancy Carson, PhD, OTR/L
Associate Professor

Patty Coker-Bolt, PhD, OTR/L, FAOTA, Associate Professor

Amanda K. Giles, OTD, OTR/L
Instructor

Na Jin Seo, PhD
Assistant Professor

Cristina Reyes Smith, OTD, OTR/L
Instructor

Michelle L. Woodbury, PhD, OTR/L
Associate Professor

**ADJUNCT FACULTY**

Scott Hutchison, MSR, OTR/L, PTA
Adjunct Faculty

**ACADEMIC STAFF**

Terri Bozzelli
Administrative Assistant
Since its inception, the Division of Occupational Therapy, Department of Health Professions, College of Health Professions at the Medical University of South Carolina has offered the only professional, entry-level Occupational Therapy educational program in the state of South Carolina. Under the leadership of Dr. Maralynne D. Mitcham, the MUSC OT Division grew into one of the premiere programs for obtaining an OT education, with the National Board for Certification in Occupational Therapy (NBCOT) at an overall pass rate of 100% and internationally recognized as a leader in interprofessional education. But educational excellence is not our only goal. Under the leadership of Dean Saladin of the College of Health Professions and my leadership as the Division Director, the program is rapidly changing what’s possible through scholarship and practice in research, entrepreneurship, international studies and community-based programs such as a student-run therapy clinic for under-insured individuals.

The purpose of this brochure is to re-introduce you to the excellence of our educational programs and introduce you to the breath of MUSC Occupational Therapy scholarship that we believe will provide the basis for changing what is possible through Occupational Therapy.

Craig Velozo, PhD, OTR/L
Professor and Occupational Therapy Director

Dr. Hazel L. Breland

Dr. Nancy Carson

We are pleased to announce that Drs. Hazel Breland, Nancy Carson and Craig Velozo will be inducted into the American Occupational Therapy Association Roster of Fellows during the 2016 AOTA Annual Conference.

U.S. NEWS AND WORLD REPORT RANKS OUR MS PROGRAM 17TH AMONG U.S. UNIVERSITIES
The MUSC Occupational Therapy Program creates an educational experience that spans from the basic sciences to community participation. Instruction is provided by award-winning teachers, experienced clinicians and federally-funded researchers. The MUSC Occupational Therapy Program integrates clinical experiences throughout the program. Unique to MUSC is Camp Hands to Hands, a service learning program that provides constraint-induced movement therapy to children with hemiplegic cerebral palsy at no cost to families in the Charleston area.
ACADEMIC PROGRAMS

MS Program

The MUSC Master of Science in Occupational Therapy degree program has a diverse faculty that provides an abundance of clinical and research expertise. MUSC’s university wide interprofessional Creating Collaborative Care (C3) initiative integrates health professional students campus wide. Many of our students graduate with interprofessional fellowships.

Learning in community educational settings provides students with the opportunity to participate in a wide variety of activities, including: the Community Aid Relief Education and Support (CARES) free therapy clinic, Camp Hands to Hands constraint-induced movement therapy for children with hemiplegic cerebral palsy, special needs Head and Spinal Cord Injury (HASCI) services, Pattison’s Academy for children with multiple disabilities, young stroke survivors support groups, ergonomics in dental medicine consultation and international medical missions services.

PhD Program

The Doctoral Program in Health and Rehabilitation Science uniquely positions graduates for independent and team investigation of complex health issues and rehabilitation disorders that translate from the laboratory, to clinic and community. Graduates are prepared to lead interdisciplinary teams toward optimizing the health and rehabilitation outcomes of patients through investigations using innovative methods and cutting edge technology.

The three tracks of our PhD program, Pathology and Impairment, Functional Limitations and Health Services, allow our graduates to address health and rehabilitation questions across all levels of the translational continuum and domains of the International Classification of Functioning Disability and Health (ICF).

Future OTD Program

The Clinical Doctorate in Occupational Therapy (OTD) is currently in the development process. This program will build upon the successes of our Master of Sciences in OT program. This new program will be three years (nine semesters).

98.5% NBCOT Certification Pass Rate on First Attempt

98.5% Graduation Rate

100% Overall NBCOT Certification Pass Rate
Over the past year the faculty and students have produced 24 peer reviewed publications and textbook chapters and presented 49 posters and presentations at national and local conferences. Faculty submitted 12 proposals and contracts receiving over $1.5 million in extramural funding.

Our faculty, funded by the Department of Veterans Affairs (VA), National Institutes of Health (NIH), foundations and industry, are conducting rehabilitation studies aimed at expanding the evidence for OT evaluation and interventions. For example, Dr. Woodbury and Mr. Hutchison are conducting a large randomized control trial (RCT) testing a method to personalize post-stroke OT sessions and Dr. Coker-Bolt is quantifying motor development in high risk infants. This year was highlighted by the recruitment of Dr. Na Jin Seo, a biomechanical engineer who pioneered a patent-pending technology to enhance recovery of hand function after stroke. Drs. Seo and Woodbury were funded by the Patient Centered Outcomes Research Institute (PCORI) to investigate the post-rehabilitation, community based needs of individuals with stroke. As part of the NIH funded Centers for Biomedical Research Excellence (COBRE) for Stroke Recovery, Dr. Seo, Dr. Woodbury and Mr. Hutchison are conducting interprofessional collaborative research using cutting-edge brain mapping analyses to define patterns of brain activity underlying function performance.

We are also excited that faculty-developed products are moving towards real-life applications. For example, with NIH funding, Dr. Woodbury designed, licensed, tested and commercialized Duck Duck Punch, an interactive computer game to improve post-stroke arm recovery. In addition, Dr. Amanda Giles developed an interactive mobile application, GONI, for teaching the measurement of range of motion, featuring videos, functional implications and additional tools to enhance and assess learning. The MUSC OT students have abundant opportunities to engage with faculty on these and other research projects.

RESEARCH AND COMMUNITY SERVICE

TRANSLATING RESEARCH INTO PRACTICE

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CARES STUDENT-RUN FREE CLINIC

The Community Aid Relief Education and Support (CARES) Therapy Clinic is a student-run free therapy clinic that has been in operation at the Medical University of South Carolina in Charleston since 2006. CARES provides free access to primary health care, including occupational therapy, physical therapy and speech-language therapy, for the underserved population of the Charleston area. The clinic sees patients who have no insurance, whose insurance does not cover therapy services, or whose therapy services have run out but the patient would still benefit from more therapy.

CARES is operated by an interprofessional board of directors, including students from OT and PT programs under the guidance of faculty mentors. The CARES Therapy Clinic operates two nights a week, providing care for uninsured patients with musculoskeletal conditions on one night and neurological conditions on a second night.

The OT and PT Divisions of MUSC College of Health Professions recently won the 2015 Service Learning Award presented by the South Carolina Commission on Higher Education for the CARES Therapy Clinic.

Left: CARES Therapy Clinic student leaders present their implementation of the CARES electronic health record at the 2015 Society of Student Run Free Clinics Annual Conference in Atlanta, Georgia.

Right: South Carolina commissioner presented the 2015 Service Learning Award to CARES occupational therapy faculty mentors, Drs. Amanda Giles and Craig Velozo and physical therapy faculty mentors Drs. Sara Kraft and Gretchen Seif.
Ergonomics for Dentistry

Peter Bowman, OTD, OTR/L OT(C) Dip COT specializes in ergonomics and hand injuries and is studying the effect of ergonomic training for dental medicine students on impacting the use of good body mechanics, posture, positioning and stretching exercise methodologies during patient treatment.

Interprofessional Education

Hazel L. Breland, PhD, OTR/L focuses her scholarship in the areas of interprofessional education, community engagement and health promotion of persons aging with chronic conditions and the medically underserved.

Psychosocial Impact

Nancy Carson, PhD, OTR/L conducts research in community-based settings serving adults with serious mental illness and focuses on sensory modulation, social participation, nutrition and wellness.

Pediatric Research and Community Based Programming

Patty Coker Bolt, PhD, OTR/L, FAOTA is known for her work in pediatric constraint-induced movement therapy, international medical missions and the study of infant motor skill development.

Educational Technology

Amanda Giles, OTD, OTR/L is developing a goniometry mobile application for student use on iOS, Android and web-based operating systems.
Stroke Interventions
Scott Hutchison, MSR, OTR/L, PTA brings to the program specialized experience in neurological conditions and geriatrics. His unique credentials as an OT and PT Assistant provide students with a holistic, interdisciplinary perspective to treating older adults and stroke survivors.

Assistive/Therapeutic Device Development
Na Jin Seo, PhD, is known for her research in post-stroke hand impairment and assistive and therapeutic device development. Dr. Seo has submitted a U.S. utility patent application for a sensory orthotic for patients with impaired upper extremity sensation and hand dexterity.

Addressing Healthcare Disparities
Cristina Reyes Smith, OTD, OTR/L is working to reduce healthcare disparities and promote access to OT services for underserved communities through scholarship, advocacy and community-based programs and services.

Outcomes Measurement
Craig Velozo, PhD, OTR/L is internationally known for applying Rasch measurement to rehabilitation measures. His most recent work involves developing a self-efficacy measure for NIH’s Patient Reported Outcomes Measurement Information System (PROMIS).

Stroke Upper Extremity Rehabilitation
Michelle L. Woodbury, PhD, OTR/L is conducting externally funded research with the goal of developing a scientifically based model of post-stroke upper extremity recovery that when translated into front-line neurorehabilitation practice improves survivors’ re-engagement in meaningful daily activities. Dr. Woodbury directs the upper extremity research initiative within the NIH Center for Biomedical Research Excellence (COBRE) for Stroke Recovery. Dr. Woodbury designed and licensed Duck Duck Punch, an innovative stroke rehabilitation computer game to promote upper extremity recovery.
Faculty and students have provided much needed therapy services to adults and children in underserved areas of the world for over a decade. Faculty and students have worked on interprofessional medical mission teams in South Africa, Uganda, Romania and Nicaragua. Faculty partner with community non-profits to help impoverished communities to take ownership in a sustainable healthcare model that bring about long-term change and tangible improvements in quality of life.

During the short term medical mission trip, occupational therapy students and mentors visit remote village locations where mobile clinics provide health education, rehabilitation, medical services, pharmacy and adaptive equipment to children and adults with physical disabilities and chronic diseases. Students practice discipline specific skills while gaining an understanding and respect for other team members’ roles and responsibilities.

Dr. Coker-Bolt completed a grant funded project to train therapists in Ethiopia to provide constraint-induced movement therapy. She was recently selected for the US Department of State Fulbright Specialist Roster.
We faced a challenging year with the passing of Dr. Maralynne D. Mitcham, our esteemed professor, mentor, colleague and friend on October 17, 2014. Dr. Mitcham influenced everyone with whom she came in contact. Her legacy will continue in the Division with the Maralynne D. Mitcham Annual Lectureship and Alumni Luncheon. In the spirit of Dr. Mitcham, the lectureship and luncheon brings national and international occupational therapy leaders as keynote speakers who provide an interprofessional audience of students, clinicians, faculty and alumni with cutting-edge continuing education activities. While we grieve the loss of this extraordinary woman, we are filled with gratitude for having shared a moment in time with her. We look forward to preserving Dr. Mitcham’s legacy in the Division of Occupational Therapy.
As we prepare to celebrate the College’s 50th Anniversary, your loyal support and friendship are what we remain most grateful.

From the Faculty, Staff and Students of MUSC College of Health Professions & Lisa K. Saladin, Dean

http://academicdepartments.musc.edu/chp50