

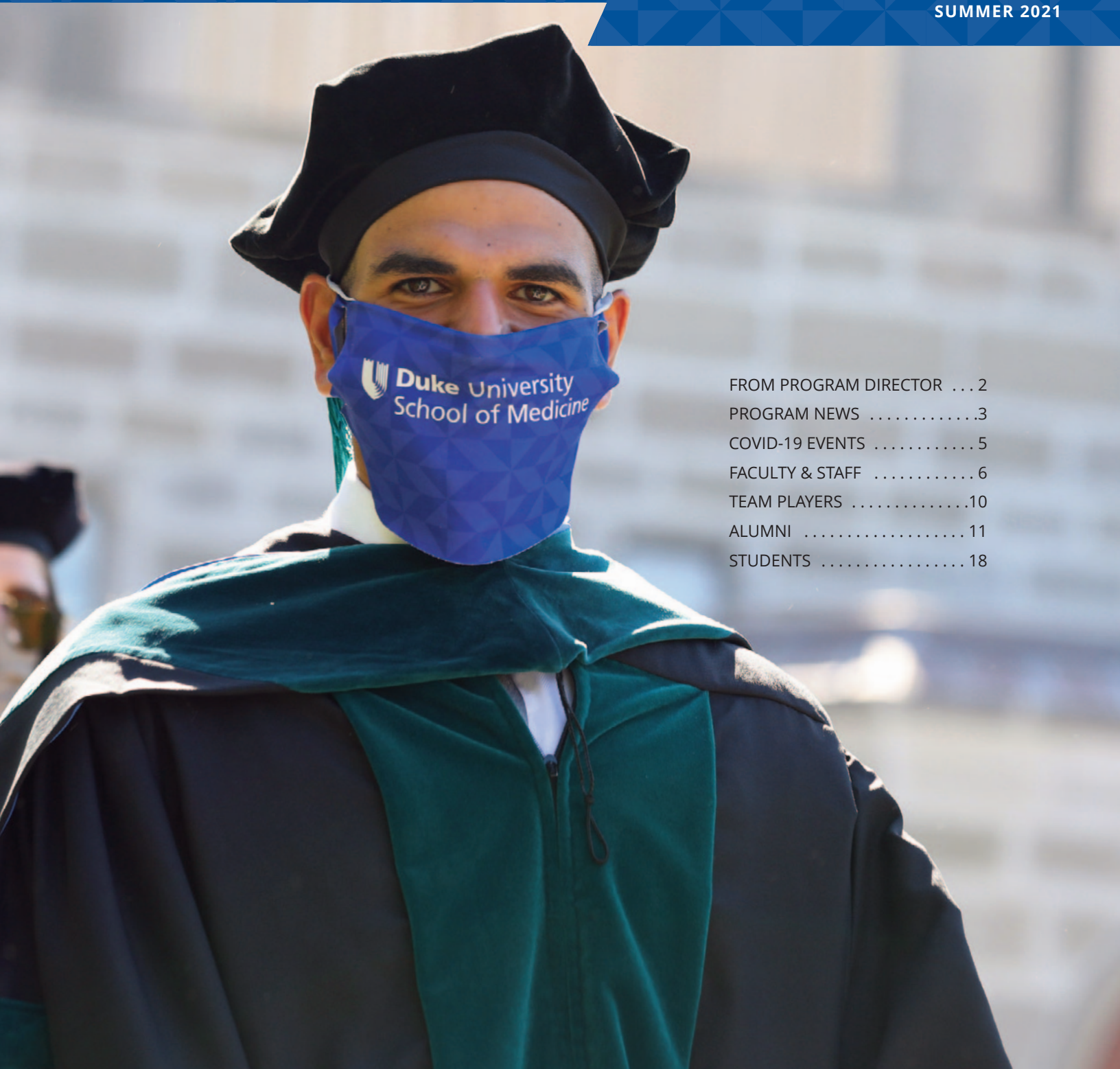
Doctor of Physical Therapy



Duke in touch

Connecting Duke Physical Therapy alumni, students, faculty, clinicians, and friends

SUMMER 2021



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W. TODD CADE, PT, PHD

Division Chief for the Duke University
Doctor of Physical Therapy Program



Watching the Tokyo Olympics this summer, I am amazed at the dedication of the Olympians to achieve *excellence* and be the best at their sport. Katie Ledecky, the 24-year old Olympic swimmer, is considered by many to be the best female swimmer of all time. In addition to winning the 800-m freestyle as a 15-year old in the 2012 London Olympic Games, she won four gold medals, one silver and set two world records at the 2016 Rio de Janeiro Olympic Games. This summer, she won additional medals including gold in the 1500-m and 800-m freestyle and silver in the 400-m freestyle and 4x200 freestyle relay in the Tokyo Olympic Games. The road to Olympic excellence is tedious and frequently grueling. Described by USA Swimming as 100% committed, self-driven, goal-oriented, a humble yet fierce competitor, and a great teammate, Katie Ledecky would train early hours and long days of swimming up to 8500 yards (170 lengths of a standard community pool) during each training session. It is safe to say that Katie Ledecky's quest for excellence takes *perseverance*.

In another story, Simone Biles garnered headlines for not competing in the Olympic Games in Tokyo due to mental health issues. Simone Biles, also considered the best ever in her sport, highlighted other important traits: the ability for self-care and to think of others on her team. I am sure her decision not to compete was not easy as there were many outside pressures and the frequently contentious court of public opinion. But she also showed perseverance and competed in the balance beam, achieving the bronze medal.

I can't help thinking about these stories and seeing some similarities with what we are striving for at Duke DPT. Our mission statement reads "Through excellence in teaching, evidence-based clinical practice, and cutting-edge research, the Doctor of Physical Therapy (DPT) program at Duke is *committed* to producing the next generation of leaders in the field of physical therapy". Over the past year, our faculty, staff and students suffered the negative effects of a worldwide pandemic but persevered through it. And just as restrictions started to lift and we were able to take off our masks in the classrooms, the Delta variant emerged and the masks had to go back on. The pandemic has been both physically and emotionally exhausting for our faculty, staff and students. But we will continue to *persevere*. And we take care of ourselves and each other. All the while continuing to strive for *excellence*.

As you will read in the newsletter, despite COVID-19, we have much to celebrate in our continued quest for excellence. We had an outstanding and more diverse incoming class of 95 DPT students recently go through orientation and start class. We hired an inaugural Director of Diversity, Equity and Inclusion. We started a program for interested DPT students to obtain a Certificate in the Management in Clinical Informatics during their 2nd year of the DPT program. We have started other initiatives that I hope to tell you about in the Winter newsletter. So please join me in celebrating some outstanding achievements in our ongoing quest for excellence!

program news



Dan Dore Retires

After 52 years of caring for patients, and 36 years of directing the Department of Physical Therapy & Occupational Therapy and caring for staff and students, **Dan Dore** retired on August 6.



Thank you, Dan, for always (And, I do mean always!) remaining open to requests from Duke DPT for short and long term clinical placements. During my 16 years as ACCE/DCE at Duke, I worked closely with Dan to create clinical education experiences throughout the Duke Health System that complemented Duke DPT's innovative academic and clinical curriculum. In his role as Director of PT&OT, Dan recognized the need to develop and support a large cadre of APTA credentialed clinical instructors so they would be well-resourced in their role of clinician/teacher/instructor. The nationally recognized "Duke DPT STEPS®" was made possible through Dan's strong support of the peer-learning and team-based learning model that required the allocation of "time for teaching" to Duke DPT STEPS® clinical educators.

– Faculty Emeritus **Corrie Odom**



Dan shared his clinical experiences and expertise with Duke Physical Therapy students in both the Master's and DPT curricula where he taught with compassion and enthusiasm. He has been a much beloved aspect of so many PT students' time at Duke and will always be part of their identities as physical therapists.

– **Dr. Carol Casper Figuers '81**



I am so proud to say Dr. Dan Dore was a key mentor and Duke Faculty member who has been so instrumental in my development as a physical therapist since graduating from Duke in 1994. In fact, I recall my entire Duke PT class enjoying his teaching and learning in the classroom when Dan showed us parts of the movie - City Slickers as an example of enjoying the journey in PT profession. And, never to forget the journey.

– Distinguished Alumni **Alan Lee '94**



program news

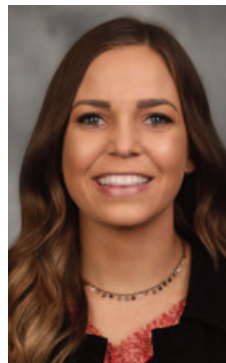
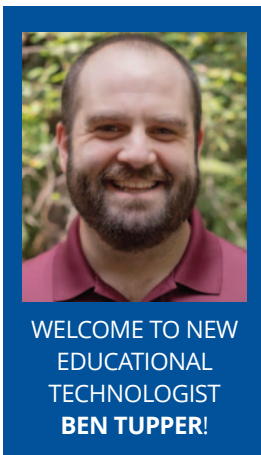


Tiffany Adams, PT, DPT, MBA, has been named as the Director of Diversity, Equity, and Inclusion for the Duke University Doctor of Physical Therapy Program.

Dr. Adams will begin her new role on August 16, 2021.

Dr. Adams was also a speaker at the virtual APTA NC National Advocacy Dinner discussing Diversity, Equity, and Inclusion on April 11 that was organized by the APTA NC Professional Advocacy Project Committee SSIG, including Duke DPT students **Janae Chinn '21**, **Brendan Gates '21**, **Courtney Deaton '22**, and **Lukas Saacks '23**, as well as APTA NC SSIG Vice Chair **Tati Paz '21**, APTA NC SSIG Director of Communications **Ashley Lea '21**, and APTA NC SSIG Director of DEI **Dashaé Smallwood '21**.

Duke DPT was also represented by panelists **Yusra Iftikhar '20** and **Dr. Gary Johnson** as well as small group facilitators **Dr. Ashley Poole**, **Dr. Rosie Canizares '07**, **Tassy Rufai '12**, and **Victoria Lamb Smith '07**.



HAYLEY PHILLIPS



CHARLOTTE SELTERS



ALI LONNER

We have initiated a DPT/MMCi certificate program this year, and **Hayley Phillips**, **Charlotte Selters** and **Ali Lonner** of the **Class of 2023** are the students who are in our inaugural cohort! **The Master in Management in Clinical Informatics** is designed to prepare healthcare professionals to design better and more efficient patient care, using computer science, clinical data, and information technology- i.e., using technology to improve the delivery of care. We are the FIRST DPT program to offer this combination of degrees, positioning our graduates to be not only pioneers in the field, but provide them a competitive edge in the job market. A discount for the MMCi certificate program is also available for alumni- we will offer the alumni base the same cost that a current student would pay who does both the Certificate and then the degree, including tuition and fees but excluding course materials/books. For more information, e-mail mmci@duke.edu.



COVID-19 events

While we began 2021 with many COVID restrictions still in place, as the vaccinations were rolled out, we were pleased by the changing protocols and the ability to have more events in person:



May 6: Virtual Branch Lecture on Zoom- Professor and Wall Scholar at the University of British Columbia, Dr. Lara Boyd presented, "Exploiting Neuroplasticity- Can We Personalize Rehabilitation"



May 8: In-person outdoor Class of 2021 Hooding and Recognition Ceremony with 2-guest limit at the Baker House Lawn

May 10: Masks no longer required in outdoor campus areas except in large group settings

May 22: Class of 1981 virtual 40-year reunion

June 1: Classroom capacity numbers increased to 100- first day the Class of 2023 was able to gather all in one room



June 10: In-person Class of 2022 White Coat Ceremony limited to 100 people inside Chapel with Division Chief Dr. Cade as the speaker and a reception for students, faculty, and staff with individual boxed lunches at IPE afterwards

June 11: Hybrid Class of 2022 House of DUKElegates

June 14-18: Virtual Summer Discovery Program

June 25: In-person Class of 2023 TBT Trends Match Day

July 1: Fully vaccinated faculty, staff and students not required to wear masks in indoor university buildings

July 30: Masking for all individuals while indoors in Duke-owned or leased buildings reinstated

Our **Summer Discovery Program** received the APTA Minority Initiatives Award! We were excited to have students from each of our 3 classes as speakers at our SDP Mentorship events this June, including **Edgar Lopez '23**.



faculty news



DR. CASE

DPT Division Chief **Dr. Todd Cade** member of the Scientific & Medical Advisory Board of the **Barth Syndrome Foundation**, who recognized his recent research on arginine kinetics published in *Molecular Genetics and Metabolism Reports*. Other recent publications include “Association of Balance Function With All-Cause and Cause-Specific Mortality Among US Adults” in *JAMA Otolaryngology- Head & Neck Surgery*, “Comparison of the Ekblom-Bak Submaximal Test to a Maximal Test in a Cohort of Healthy Younger and Older Adults in the United States,” in *Frontiers in Physiology*, and “Metabolic flexibility during late pregnancy is associated with neonatal adiposity” in *Applied Physiology, Nutrition, and Metabolism*.

Dr. Laura Case presented virtually on: “Developmental Delays in Early Childhood – is it Duchenne Muscular Dystrophy ?” for Early Intervention Providers in September and December and on “Physical Therapy In Pompe Disease” at the United Pompe Foundation Virtual Pompe Meeting at the University of California at Irvine on December 19. She also published “Quantitative Whole-body Magnetic Resonance Imaging in children with Pompe disease: Clinical tools to evaluate severity of muscle disease” in *JIMD Reports* and was invited by the Chairs of the International Working Group on the Diagnosis of Hypophosphatasia to join the working group in the development of formal diagnostic criteria for HPP for both children and adults, who plans to have the findings presented at the 21st World Congress on Osteoporosis, Osteoarthritis and Musculoskeletal Diseases in London this August.



DR. CLENDANIEL

Dr. Rick Clendaniel has been named as a Catherine Worthingham Fellow by the American Physical Therapy Association (APTA).

This year’s recipient of the Jan K. Richardson Excellence in Teaching Award as voted on by the graduating Duke DPT Class of 2021 was **Dr. Derek Clewley**, who was also nominated for the 2021 Duke University School of Medicine Master Clinician/Teacher Award and selected for the year-long Interprofessional Education Advanced Certificate Program.



DR. CLEWLEY

Dr. Chad Cook presented “The Best Pain Tools to Use in Clinical Practice” virtually for the Buenos Aires Physical Therapy Association on March 4 and for The Pain and Exercise Summit on April 3 in Kuwait. A proud 2003 alumnus of Texas Tech University and faculty member in the TTUHSC rehabilitation sciences program from 1999 to 2004, he was one of three invited keynote speakers for the 2021 Texas Tech University Health Sciences Endowed Lecture Series “Doctoral Seminar” on March 5. His other recent virtual international presentations include “Personalized ‘Value-Based’ Care for Low Back Pain” at the Society of Kinesiological and Musculoskeletal Physiotherapists (Santago, Chile) on March 24 and “Evidence-based diagnosis” at the World Congress of Physiotherapy in April (Dubai). On June 15, he was on **The Hand to Shoulder podcast**. His recent publications include:

- “Optimizing Management of Low Back Pain Through the Pain and Disability Drivers Management Model: A Feasibility Trial” in *PLoS ONE*
- “Manual Therapy in Preadolescent Children: A Delphi Investigation of Physical Therapists in the United States” in *Physical Therapy & Rehabilitation Journal*
- “True Differences in Poor Outcome Risks Between Revision and Primary Lumbar Spine Surgeries” in *HSS Journal: The Musculoskeletal Journal of Hospital for Special Surgery*
- “Providing Value-Based Care as A Physiotherapist” in *Archives of Physiotherapy*
- “What Does it Take to Facilitate the Integration of Clinical Practice Guidelines for the Management of Low Back Pain into Practice? Part 1: A Synthesis of Recommendations” in *Pain Practice*
- “Psychological, Mobility, and Satisfaction Variables Mediate the Relationship Between Baseline Back Pain Intensity and Long-term Outcomes in Individuals Who Underwent Lumbar Spine Surgery” in *Musculoskeletal Science and Practice*
- “Discharge Destination Influences Risks of Readmission and Complications After Lumbar Spine Surgery in Severely Disabled Patients” in *Clinical Neurology and Neurosurgery*



DR. COOK



DR. COVINGTON



DR. GEORGE



DR. GOODE



DR. FAW



DR. MYERS

Dr. Kyle Covington '04, who presented “Leveraging the Leadership Potential of Rehabilitation Professionals” along with the CEOs from the American Physical Therapy Association (APTA), the American Occupational Therapy Association - AOTA, and the The American Speech-Language-Hearing Association American Speech-Language-Hearing Association at the 2021 American Congress of Healthcare Executives (ACHE) Virtual Conference, published [“Focusing on Diversity: A Regional Internal Medicine Residency Viewpoint on Underrepresented Minority Support, Retention, and Mentoring”](#) in the *Journal of Graduate Medical Education*.

As per usual, **Dr. Steve George** has had several recent publications, including [“Resilience and Pain Catastrophizing Among Patients with Total Knee Arthroplasty: A Cohort Study to Examine Psychological Constructs as Predictors of Post-Operative Outcomes”](#) in *Health and Quality of Life Outcomes* and [“The Impact of State Level Public Policy, Prescriber Education, and Patient Factors on Opioid Prescribing in Elective Orthopedic Surgery: Findings From a Tertiary, Academic Setting”](#) in *Mayo Clinic Proceedings: Innovation, Quality & Outcomes*. His two publications in *Pain Medicine* were [“Predicting Recurrent Care Seeking of Physical Therapy for Musculoskeletal Pain Conditions”](#) and [“Determination of Pain Phenotypes in Knee Osteoarthritis Using Latent Profile Analysis”](#).

He was the lead author of [“Back and Neck Pain: In Support of Routine Delivery of Non-Pharmacologic Treatments as a Way to Improve Individual and Population Health”](#) in *Translation Research: The Journal of Laboratory and Clinical Medicine* and contributed to [“Star Shape Kinesio Taping Is Not Better Than A Minimal Intervention Or Sham Kinseeo Taping For Pain Intensity And Postural Control in Chronic Low Back Pain: A Randomized Clinical Trial”](#) in *Archives of Physical Medicine and Rehabilitation* and [“Fear-Avoidance and Self-Efficacy Psychosocial Factors Are Altered After Partial Meniscectomy And Associated With Rehabilitation Outcomes”](#) in the *International Journal of Sports Physical Therapy*.

Appointed to the Scientific Review Committee for the Foundation of Physical Therapy Research, **Dr. Adam Goode '05** published [“Application of Heterogeneity of Treatment Effect Methods: Exploratory Analyses of a Trial of Exercise-Based Interventions for Knee OA”](#) in *Arthritis Care & Research* and [“Dose and Recovery Response of Patellofemoral Cartilage Deformations to Running”](#) in the *Orthopaedic Journal of Sports Medicine*.

[“The Clinical Site Visit: Perspectives of Physical Therapist Students. Journal of Physical Therapy Education”](#) was published in the *Journal of Physical Therapy Education* by **Dr. Jamie Greco**, who also published [“Students’ Retention of Biophysical Agents Curriculum from First to Third Year of Study”](#) in the *Internet Journal of Allied Health Sciences*.

Dr. Timothy Faw '09 was selected to participate in the 2021 Duke course on Leadership Development for Researchers (LEADER), which includes 41 scientists from fields in 12 different School of Medicine departments, the School of Nursing, Arts & Sciences, the Sanford School of Public Policy, and the Duke Global Health Institute. He also published [“Neuroprotective Pentapeptide, CN-105, Improves Outcomes in Translational Models of Intracerebral Hemorrhage”](#) in *Neurocritical Care*.

Dr. Katie Myers offered her insight on The Pandemic’s Current Impact on DPT Education in an [exclusive interview with APTA](#) and the American Council of Academic Physical Therapy.

faculty news



DR. PIETROSIMONE



DR. POOLE



DR. LARDINOIS



DR. REIMAN

On May 11, **Dr. Amy Pastva** was the discussant on LeaRRn Webinar - **“Implementation in Complex Systems: Lessons Learned from Embedded Research, Multilevel Interventions and Complex Health”**. She has also been busy publishing with several of her colleagues, including **“Functional Electrical Stimulation In-Bed Cycle Ergometry in Mechanically Ventilated Patients: a Multicentre Randomised Controlled Trial”** in *Thorax*. With her colleagues in the Duke Lung Transplant Program, she showed that a condensed outpatient rehabilitation program early after lung transplantation was associated with a large, clinically meaningful improvement in 6MWD in **“Condensed Outpatient Rehabilitation Early After Lung Transplantation: A Retrospective Analysis of 6-Minute Walk Distance and Its Predictors Salient predictors of improvement included age, lung function, and starting 6MWD”** published in *Cardiopulmonary Physical Therapy Journal*. She published **“Towards “Mobility is Medicine”: Socioecological Factors and Hospital Mobility in Older Adults”** in the *Journal of the American Geriatrics Society* with colleagues in the Duke Older Americans Independence Center and the Durham VA. Her other collaborative publications include the National Institute of Aging-funded study, **“REHAB-HF, Relationship of Physical Function with Quality of Life in Older Patients with Acute Heart Failure”** also in the *Journal of the American Geriatrics Society* and **“Physical Rehabilitation for Older Patients Hospitalized for Heart Failure”** in the May edition of the *New England Journal of Medicine*. A presentation she did with colleagues in the Duke Health Center for Interprofessional Education and Care on April 17 at the Interprofessional Care for the 21st Century Conference sponsored by one of the premiere IPE centers in the US, the Jefferson Center for Interprofessional Practice and Education, was “Interprofessional Education Primer for New Health Professions Students: Pilots Across Three Programs (DPT, MD, PA).”

Dr. Laura Stanley Pietrosimone ‘10 had a couple of publications in the *Journal of Athletic Training*, **“Changes in Infrapatellar Fat Pad Volume Following Anterior Cruciate Ligament Reconstruction and Associations with Patient-Reported Outcomes”** and **“Differences in Biomechanical Loading Magnitude During a Landing Task in Male Athletes with and without Patellar Tendinopathy,”** and she published **“Identifying Achilles Tendon Structure Differences by Ultrasound Tissue Characterization in Asymptomatic Individuals”** in the *Scandinavian Journal of Medicine and Science in Sports*.

Dr. Ashley Poole served on the leadership committee of the task force who authored Adult Vital Sign Interpretation in **“Acute Care Guide 2021”**. She and medical instructor **Dr. Kara Sporer Lardinois MS’00, DPT’01** also completed their Duke AHEAD Certificates in Health Professions Education.

Another nominee for the 2021 Duke University School of Medicine Master Clinician/Teacher Award, **Dr. Mike Reiman** was recognized as an **“Expertscape Expert in Return to Sport”** and published **“How Many Patients Achieve an Acceptable Symptom State After Hip Arthroscopy for Femoroacetabular Impingement Syndrome? A Cross-Sectional Study Including PASS Cutoff Values for the HAGOS and iHOT-33”** in the *Orthopaedic Journal of Sports Medicine* and **“Maximal Hip Muscle Strength and Rate of Torque Development 6-30 Months after Hip Arthroscopy for Femoroacetabular Impingement Syndrome: A Cross-sectional Study”** in the *Journal of Science and Medicine in Sport*.

Research Grant Updates

DPT Faculty continue to pull in major research grants.

DUKE DPT INVESTIGATOR	GRANTOR	STUDY
Dr. Jody Feld Co-PI	National Institutes of Health, National Institute on Aging	“Physical Resiliencies: Indicators and Mechanisms in the Elderly (PRIME) Collaborative Phase 2.” The primary objectives of the study are to define musculoskeletal and cognitive resiliencies following elective surgery in older adults; and quantify the association between predictive tests and biomarkers and the resilience phenotypes
Dr. Jody Feld Site PI, Rater	National Institutes of Health, National Institute of Neurological Disorders and Stroke, StrokeNet	“TRANScranial Direct Current Stimulation for PObst-stroke Motor Recovery: A Phase II Study (TRANSPORT2).” A multi-center (13) phase II clinical trial to determine whether there is an overall treatment effect among 3 dose groups (sham, 2 mA and 4 mA) of transcranial direct current stimulation for post-stroke motor recovery in the upper extremity.
Dr. Todd Cade Co-I	National Institutes of Health/& National Heart, Lung Blood Institute	“Mechanisms and Treatment of Cardioskeletal Dysfunction in Barth Syndrome” This two-site study (University of Minnesota & Duke) aims to characterize skeletal and cardiac muscle pathology in human derived inducible pluripotent stem cells differentiated myocytes obtained from children, adolescents and adults with Barth syndrome and correlate cell pathology with cardiovascular and metabolic outcomes.
Dr. Amy Pastva	Patient-Centered Outcomes Research Institute (PCORI), Phased Large Awards for Comparative Effectiveness Research (PLACER)	“Achieving Blood Pressure Goals after Stroke” Given the challenges with implementing new models of care in practice, and the needs of stroke patients for multi-faceted strategies to manage BP to reduce the risk of recurrent stroke and other poor outcomes, this multi-center study of 2,600 patients will compare adaptations of two evidence-based, stakeholder-tested interventions: 1) evidenced-based in-person Intensive Clinic Management (ICM), versus 2) a more intensive tailored telehealth management (ITTM) intervention. The ITTM assesses functional and social determinants of BP self-management to create targeted individualized care planning, health and physical activity coaching, and referrals to needed community resources. ITTM involves care plans focused assessing the patient’s ability to self-manage BP and stroke risk factors and connecting to appropriate community resources; ICM provides a care plan with more generic guidance for risk factor management.



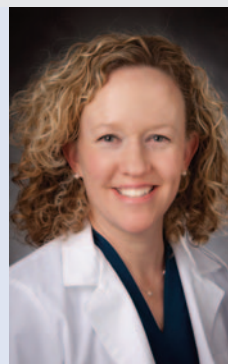
DR. FELD



DR. PASTVA



DR. FIGUERS

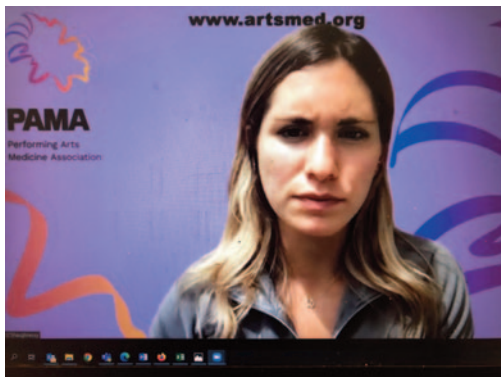


CHRIS HOLLADAY

Team Players

Dr. Carol Casper Figuers '81 and **Chris Holladay '08** co-authored **“Incontinence and Related Disorders: Implications for the Aging Adult”** Academy of Geriatric Physical Therapy Learning Center (apta.org)

team players



KELLY O'SHAUGHNESSY '22

Presentations

Dr. Laura Case and **Maggie Holland '16** were co-authors of the poster "Clinical Characterization of 20 Infants Diagnosed with Late-Onset Pompe Disease after Positive Newborn Screening" presented at the American College of Medical Genetics 2021 Annual Clinical Genetics Meeting in April.

Kelly O'Shaughnessy '22 presented the poster "Dietary Choices and Nutritional Interest of Dancers Presenting to an Academic Medical Center Dancer Wellness Clinic" at the 39th Annual PAMA International Symposium virtually on June 25. **Dr. Rosie Canizares '07** is a co-author of this research.

Publications



DR. SIMON



DR. HORN



DR. MAGILL

Gerard Brennan '75, Dr. Steve George. *JAMA Network Open.* "Risk Factors Associated With Transition From Acute to Chronic Low Back Pain in US Patients Seeking Primary Care"

Dr. Chad Cook, Zachary Rethorn, Ale Garcia. *Spine.* "Construct Validity and Item Response Theory Analysis of the PROMIS-29 v2.0 in Recipients of Lumbar Spine Surgery"

Dr. Jody Feld, Bridget Ripa Eubanks '13, Kayla Holz Black '14, Dr. Kyle Covington '04. *Journal of Allied Health.* "Doctor of Physical Therapy Student Perceptions of Domestic Versus International Service-Learning Experiences: A Mixed-Methods Approach"

Dr. Steve George, Trevor Lentz, Dr. Adam Goode '05, Dr. Corey Simon, Dr. Chad Cook, Lindsay Ballengee '11. *Pain Medicine.* "Improving Veteran Access to Integrated Management of Back Pain (AIM-Back): Protocol for An Embedded Pragmatic, Cluster Randomized Trial"

Dr. Steve George, Dr. Adam Goode '05. *Pain Reports.* "Physical Therapy and Opioid Use for Musculoskeletal Pain Management: Competitors or Companions?"

Dr. Maggie Horn, Logan Couce '20, Dr. Steve George. *Journal of Orthopaedic Surgery and Research.* "Reporting and Utilization of Patient-Reported Outcomes Measurement Information System (PROMIS) Measures in Orthopedic Research and Practice: A Systematic Review"

Trevor Lentz, Dr. Adam Goode '05, Dr. Steve George. *Mayo Clinic Proceedings: Innovations, Quality & Outcomes.* "Assessment of Common Comorbidity Phenotypes Among Older Adults With Knee Osteoarthritis to Inform Integrated Care Models"

Dr. Jack Magill, Heather Myers, Dr. Laura Stanley Pietrosimone '10. *Orthopaedic Journal of Sports Medicine.* "Healthy Pediatric Athletes Have Significant Baseline Limb Asymmetries on Common Return-to-Sport Physical Performance Tests"

Zachary Rethorn, Dr. Kyle Covington '04, Dr. Chad Cook. *Journal of Geriatric Physical Therapy.* "Physical Activity Promotion Attitudes and Practices Among Outpatient Physical Therapists: Results of a National Survey"

Dr. Corey Simon, Trevor Lentz, Dr. Steve George. *The Clinical Journal of Pain.* "Static and Dynamic Pain Sensitivity in Adults With Persistent Low Back Pain: Comparison to Healthy Controls and Associations With Movement-evoked Pain Versus Traditional Clinical Pain Measures"

Liana Wooten '12, Brian Neville '09. *Cardiopulmonary Physical Therapy Journal.* "Carbon Dioxide Expiration and Performance Fatigability Following Aerobic Exercise Training"

alumni news



Class of 2021 graduates processing to Hooding and Recognition ceremony



LAURA HENDERSON BOOSE '15
Duke Physical Therapy Alumni Association President

Laura Boose PT, DPT

Message from Alumni Association President

Happy Summer! I am so excited to welcome the class of 2024 to the Duke DPT Program! We look forward to watching you learn and grow into valued clinicians over the next 3 years. We are excited to welcome the new Director of Diversity, Equity and Inclusion, Dr. Tiffany Adams. I am confident, with her help, that Duke DPT will lead the way in fostering an environment of inclusion and excellence.

Recently, Duke DPT hosted the Summer Discovery Program for undergraduate students interested in pursuing a career in physical therapy. Thank you to all the current DPT students, faculty members, and mentors that participated in the event, making it a huge success. SDP continues to provide exposure to the field of physical therapy with emphasis on under represented populations, continually striving to improve diversity and inclusion in the field of physical therapy.

Congratulations to the recent graduates of the class of 2021!

I would like to be the first to welcome you to our Alumni Association. We can't wait to see all your contributions to the field of physical therapy! Additionally, Duke DPT will be welcoming back the class of 2020 for an in-person ceremony to honor all their accomplishments while at Duke. We look forward to seeing everyone back in Durham at the end of September for this celebration.

Thanks again for everything you guys do to make Duke DPT one of the best programs in the country. GO DUKE!!

Forever Duke



Heartfelt thanks from Katie Scaff '19

Helen Kaiser Duke Physical Therapy Alumni Association Award winner for the Duke DPT Class of 2019

I would like to extend a sincere “Thank You” to the Duke Physical Therapy Alumni Association, Duke DPT faculty and the Class of 2019 for the Helen Kaiser student recognition award. This scholarship allowed me the opportunity to attend APTA CSM 2020 to network and engage with colleagues in the APTA community. These experiences have transformed my early career opportunities as a new graduate physical therapist. Now that I can call myself a Duke DPT alumni, I am extremely grateful for the continued support of my alma mater towards my personal and professional goals so early in my career. Unknown to me at the time, this would be my last in-person conference for the foreseeable future as public gatherings were shortly thereafter suspended due to the COVID-19 pandemic.

The support of my Duke DPT Alumni Association allowed me to attend this meeting and form meaningful connections with colleagues and mentors across the country that would carry us through the pandemic and many years to come.

During APTA CSM, I was able re-ignite my passion for advocacy through various events such as the inaugural gathering of the PT-PAC #CoffeeClub. This group is for early-career PTs and PTAs dedicated to inspiring conversations, creating connections, and building a strong community for PT advocacy. During this event, I gained advocacy mentors that have helped me reach my goal of becoming a Delegate to The APTA House of Delegates. Further, I was able to attend the Federal Physical Therapy Section membership meeting where I was recognized as the Federal Advocacy Forum Scholarship recipient. At this meeting, I joined a network of fellow advocates in the federal sector working towards improving access and quality of care to our Veterans. Lastly, the PT-PAC Late Night Valentine Party was where my most valued professional connections turned into lifelong friendships that I am confident will last throughout the rest of my career.

As an Orthopaedic Physical Therapy resident, I was balancing rigorous coursework and clinical mentoring hours while navigating the transition from student to early career professional. Attending CSM was just what I needed professionally to jump start the next steps in my career. During the conference, I attended the Academy of Orthopaedic Physical Therapy’s membership meeting and Pain SIG meeting. During these events, I met individuals who helped me find my niche and channel my passions for student and new professional involvement into a leadership position on the Academy of Orthopaedic Physical Therapy Membership Committee. Lastly, I attended the Orthopaedic Residency Reception and was able to network with fellow residents across the country that are now close friends.

Most importantly, this scholarship allowed me to reconnect with my Duke friends and family at the Alumni Reception. I cannot express enough what it means to come together year after year with classmates, professors, and now colleagues that have supported me from that first day at Erwin. Since graduating in 2019, I have only watched my appreciation for the Duke community grow. Thank you, Duke for the endless opportunities to lead a fulfilling career in physical therapy. I truly would not be where I am today without your guidance and unwavering support. I encourage current students to not let your Duke DPT journey end on graduation day. This is truly just the beginning. Afterall, we are #ForeverDuke.



Noteworthy

Dr. Rosie Canizares '07, Yusra Iftikhar '20, and Chrissy Becks Mansfield '14 all served on the Academy of Orthopaedic Physical Therapy Diversity, Equity, and Inclusion Task Force.

Ramiro Garrido '15 presented "Return to Duty/Sports Evidence" and "BFR Utilization for Performance Enhancement" at the 10-day Air Force Advanced Clinical Practice Course in April for all branches of the military where he met fellow Duke DPT alum **Andy Statkevich '20**.

Alan Lee '94, Mike Billings '94, and Keaton Ray '14 were all speakers on **The Graham Sessions** 2021 Virtual Series of The Institute of Private Practice Physical Therapy. **Stacie Morris '15** is scheduled to speak on September 16.

Alan Lee '94 spoke on the Duke DPT Diversity Club AAPI Panel on May 24.

Stacie Morris '15 spoke to the Duke DPT R2P Club on May 17.

Blair Packard '76 is this year's recipient of the **APTA Humanitarian Award**.

Amy Arundale '11 was interviewed on the **Medical Experts in Football podcast** on March 9.

Jenna Kellner Austell '06 was interviewed for the **American Academy of Sports Physical Therapy Residency Spotlight podcast** to discuss the Duke Sports PT Residency.

Garrett Bullock '17 was featured on an episode of the **Hand to Shoulder Center of Wisconsin podcast**.

Cara Heaton Drvol '14 has received her Neonatal Touch and Massage Certification.

Ken Kirby '06 ran for Vice-President of the Ohio Physical Therapy Association.

Kelley Kubota '94 began serving as the Vice-President of the **California Physical Therapy Association** this year.

Justin Losciale '17 was one of only 4 APTA members honored by World Physiotherapy; he received the Outstanding Platform Award, North America region for "**Does Biologic Sex Affect Second ACL Injury Risk? A Systematic Review with Meta-Analysis**".

Corina Martinez '06 helped write the pediatric concussion chapter of "**Pediatric Musculoskeletal Physical Therapy Diagnosis: A Video-Enhanced Guide**".

Carol-Ann Nelson '13 presented an online webinar for Destination Rehab to share tips on starting an outdoor physical therapy practice on April 28.

Nick Potter '04 spoke about High Performance at Duke Basketball on **The Mike Quirke podcast** on February 26.

Mike Schmidt '12 presented on "**Specialties within Physical Therapy**" at the Duke Spine Symposium on May 23.

Moyo Aremu-Cole Tillery '11 was awarded the Outstanding CI of the Year Award by the UNT Health Science Center Department of Physical Therapy and was selected by the APTA Academy of Education to receive the Clinical Educator's Scholarship to ELC 2021.

Jessica Fulton Waters '14 presented at the American Academy of Sports Physical Therapy College/Pro SIG's Journal Club on Performing Artists on April 21.

Brooke Womack '12 spoke about "Transitioning from Medical Professional to Entrepreneur" on clubhouse on January 19 and on How I Generated a Passive Six Figure Income Leveraging My Physical Therapy Degree on April 22.

Liana Wooten '12 spoke on *Cardiopulmonary Physical Therapy Journal* - Cardiopulmonary PT Journal podcast: "**Episode 7: Respiratory Buffering During Aerobic Exercise: A Focus on Fatigue**" on Apple podcasts.

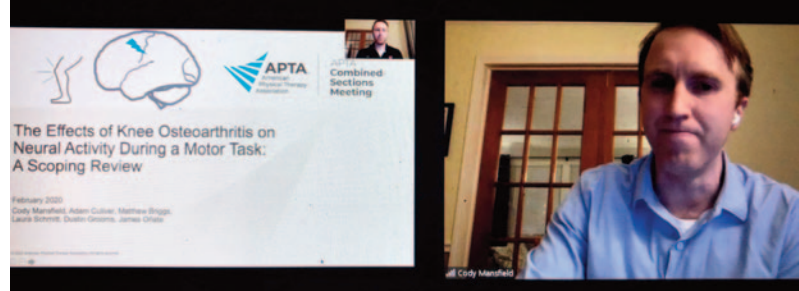
Thank you

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Cody Mansfield '14 presented the platform “The Effects of Knee Osteoarthritis on Neural Activity During a Motor Task: A Scoping Review” at APTA Virtual CSM 2021.

Publications

Cory Christiansen '96. *Physical Therapy & Rehabilitation Journal.* “Patterns of Sitting, Standing, and Stepping After Lower Limb Amputation.” “Psychometric Assessment of the Connor-Davidson Resilience Scale for People With Lower-Limb Amputation”

Misty Woods Corcoran '10. *Geriatric Nursing.* “On the Move Clinic: A Fall Prevention Nurse Practitioner-Driven Model of Care”

Rebecca Craik '72. *Physical Therapy & Rehabilitation Journal.* “Using Treatment Fidelity Measures to Understand Walking Recovery: A Secondary Analysis from the Community Ambulation Project”

Matt DeLang '18. *International Journal of Sports Physical Therapy.* “Screening to Detect Hip and Groin Problems in Elite Adolescent Football (Soccer) Players - Friend or Foe?” “Female Adolescent Soccer Players Utilize Different Neuromuscular Strategies Between Limbs During the Propulsion Phase of a Lateral Vertical Jump”

Tara Widgins Dickson '12. *Journal of Physical Therapy Education.* “The Toll of Student Debt: Stress Among Health Professions Students and the Promising Role of Financial Self-Efficacy on Career Choices”

Physical Therapy & Rehabilitation Journal. “Impact of Faculty and Programmatic Resources on the Proportion of Academic Doctoral Degrees in Professional Physical Therapist Education Programs”

Innovative Higher Education. “Faculty Staffing Patterns: Breadth and Flexibility in Professional Physical Therapy Programs”

Matt Ithurburn '12. *Journal of Orthopaedic & Sports Physical Therapy.* “Reduced 2D Frontal Plane Motion During Single Limb Landing Associated With Risk of Future ACL Graft Rupture After ACL Reconstruction and Return to Sport: A Pilot Study”

Michael Jeanfavre '17. *Cient Periodique.* “A Systematic Review of Return to Sports Physical Performance Tests of the Foot and Ankle”

Cody Mansfield '14. *Physiotherapy Theory and Practice.* “Moderate reliability of the lateral step down test amongst experienced and novice physical therapists”

Journal of Orthopaedic & Sports Physical Therapy. “Paresthesia Post Total Knee Arthroplasty Secondary to Severe Thoracic Spinal Cord Compression”

Physical Therapy & Rehabilitation Journal. “Predictive Factors for Patients' Failure to Show for Initial Outpatient Physical Therapist Evaluation”

Annalisa Na '09. *Journal of Orthopaedic & Sports Physical Therapy.* “Diabetes Mellitus Blunts the Symptoms, Physical Function, and Health-Related Quality of Life Benefits of Total Knee Arthroplasty: A Systematic Review With Meta-Analysis of Data From More Than 17,000 Patients”

Evan Nelson '07. *Journal of Orthopaedic & Sports Physical Therapy.* “Construct Validity and Responsiveness of the University of Wisconsin Running Injury and Recovery Index”

Beth Rohrer MS '00, DPT'01. *Physical Therapy & Rehabilitation Journal.* “Capitalizing on Virtual Delivery of Community Programs to Support Health and Well-Being of Older Adults”

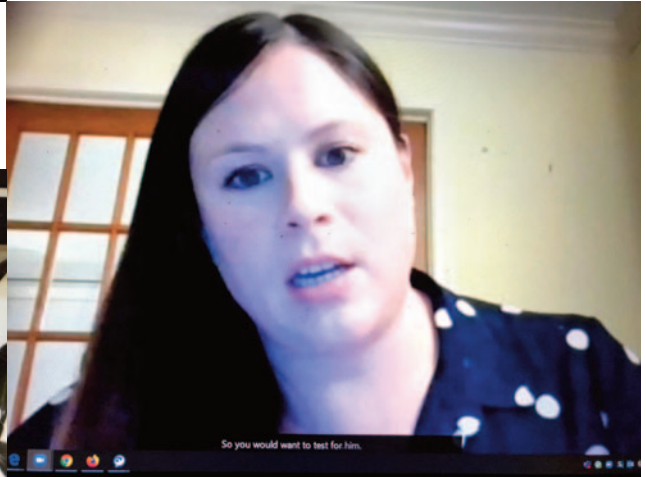
Sean Rundell '05. *Physical Therapy & Rehabilitation Journal.* “Survey of Physical Therapists' Attitudes, Knowledge, and Behaviors Regarding Diagnostic Imaging”

Melissa Scales '08. *Medical Problems of Performing Artists.* “Shoulder Range of Motion and Strength Characteristics in Circus Acrobats”

Mike Schmidt '12. *Hernia.* “Evolving concepts in ventral hernia repair and physical therapy: prehabilitation, rehabilitation, and analogies to tendon reconstruction”



Amanda Beaty '18 shared her personal journey on managing her loans, along with some resources and helpful tips, during the live discussion **"Public Service Loan Forgiveness and Financing PT School"** hosted by APTA NC SSIG on July 14. The session was moderated by new grads **Ashley Lea '21** and **Dashaé Smallwood '21**.

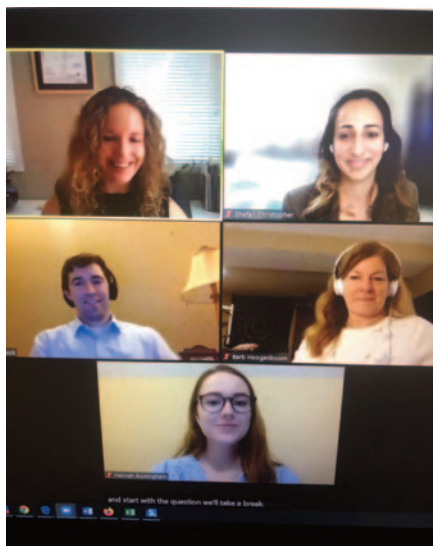


Chrissy Becks Mansfield '14 presented the Educational Session **"The Missing Link in Optimizing Function in Female Athletes: Connecting Pelvic Floor and Orthopaedic Dysfunction"** at APTA Virtual CSM 2021

Keaton Ray '14 spoke to the Duke DPT Private Practice SIG on March 5.



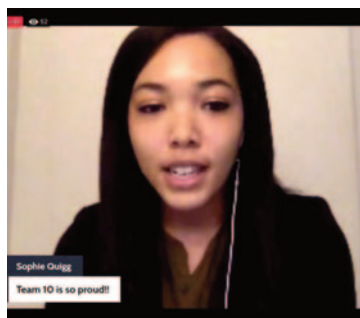
Garrett Bullock '17 had the most virtual presentations at APTA CSM this year. He is pictured presenting with fellow Duke DPT alum **Shefali Mathur Christopher '08** and colleagues.



Moyo Aremu-Cole Tillery '11 was a panelist for the Private Practice SIG and Diversity Club's Black History Month Panel on Navigating Leadership Through a Diverse Lens on February 15.



Lisa Shirafuji Taylor '20 (shown right) received the Great Catch Award from Duke University Hospital President Tom Owens for recognizing that a patient's new onset of acute symptoms in the right lower extremity were congruent with DVT or infection during a PT appointment for treatment of a UE impairment. She referred the patient to urgent care & the patient was subsequently admitted to the hospital for appropriate treatment for an infection in a timely manner, thereby decreasing the risk of a poor outcome.



Like most things this year, the 2021 APTA Combined Sections Meeting was held virtually during the month of February; however, this did not stop Duke DPT from having our usual strong showing.

Here are some highlights:

- 173 total presentations presented or co-authored by Duke PT faculty, students, alumni, clinicians, and graduates of Duke PT residency and fellowship programs
- 12 Class of 2021 capstone presentations
- The Virtual Duke Physical Therapy Alumni and Friends Reception was attended by more than 55 guests who were able to meet our new division chief and watch the beginning of the UNC basketball game together
- 70 people attended our first ever Virtual CSM Residency and Fellowship Networking Reception, including 36 alumni
- **Ashley Lea '21** (pictured above) received the Outstanding PT Student Award from the Academy of Orthopaedic Physical Therapy.
- **Rachel Meyers '21** received the Outstanding PT Student Award from the American Academy of Sports Physical Therapy.
- The Class of 2021 capstone group of **Amanda Braatan, Cannon Hanebuth, Holt McPherson, Dashaé Smallwood, David Basirico**, and faculty mentors **Dr. Derek Clewley** and **Zachary Rethorn** were awarded a virtual "Social Responsibility" ribbon for the poster titled "Social Determinants of Health Affect Care-Seeking for Physical Therapy a Systematic Review" by The Global Health Special Interest Group.
- Faculty Development Residency graduate **Zachary Rethorn** was selected as a recipient of the Adopt-A-Doc Award for 2021 by the APTA Academy of Education.
- The Duke Physical Therapy Alumni Association held its annual elections. **Allison Mumbleau '09** was elected as Vice-President and **Jon Weinhold '15** (pictured right) joined the Executive Board as a Member At Large.



24 alumni were recognized as new board certified clinical specialists:

ORTHOPAEDIC

- Kate Amsden '17
- Chad Brinkman '18
- Meg Cesarz '14
- Andrea Christian
- Emily Fronk
- Jessi Groves '16
- Morgan Mowery Heckert '15
- Ryan Herr '17
- Christina Cromwell Jacquier '18
- June Kennedy
- Travis Linton
- Arash Maslehati '10
- Jacqueline McNeil Parolin '16
- Stephanie Martof Milosovic '12
- Koren Wagner '08
- Brett Walters

PEDIATRIC

- Laura Henderson Boose '15
- Virginia Leang Cheng '98
- Maggie Holland '16
- Meredith Russo '17

GERIATRIC

- Kathryn Howington
- Michele Iorio
- Rachael Nobbs '18
- Tom Scerbo '18

CARDIOVASCULAR & PULMONARY

- Hannah McHugh

ONCOLOGY

- Zach Tally '18

NEUROLOGIC

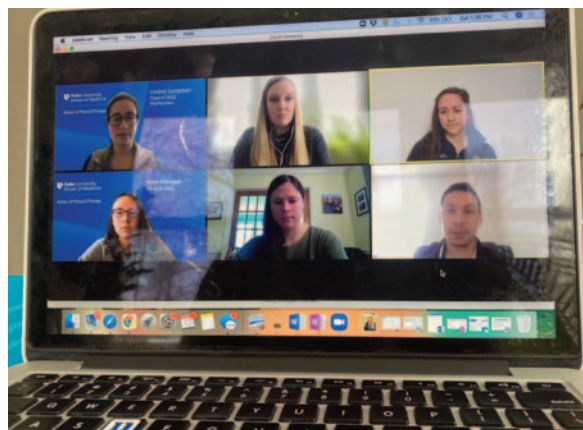
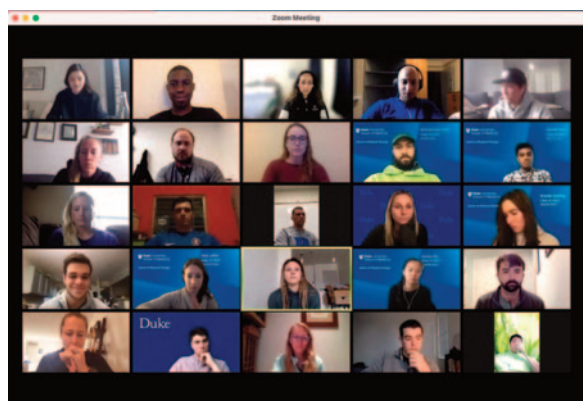
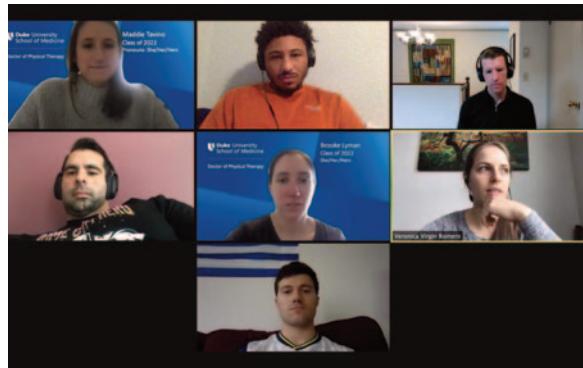
- Bridget Allan
- Ashlee Price '17

SPORTS

- Zach Boyd
- Logan Gudde '18
- Justin Losciale '17
- Merritt Walker '18
- Kate Wason '18

WOMEN'S HEALTH

- Lauren Bauer
- Alexis Meister '17



Distinguished Alumni Award



Blair Packard '94

- American Physical Therapy Association Catherine Worthingham Fellow
- 1984–1986: APTA Private Practice Section Board of Directors
 - 1991–1994: American Physical Therapy Association Board of Directors
 - 1998 Arizona Physical Therapist of the Year
 - 1997 Federation of State Boards

of Physical Therapy President's Award

- 1998 APTA Lucy Blair Service Award
- 2001 APTA Charlie Harker Health Policy Legislative Service Award
- 2002 Arizona Chapter Humanitarian Services Award
- 2006 AT Still University Annual Arizona Crystal Award – Community Service
- 2010 Richard McDougall Long Term Service Award – Federation of State Boards of PT

“When I met Blair, he helped me understand and identify future telehealth competencies required for practice and regulation. He continued to mentor me even after our first encounter at FSBPT with his humble approach and demeanor with collaboration, discourse, and mutual respect. Even though I did not know Blair had attended the Duke physical therapy program at the time, in hindsight, I should have guessed that he was a Duke Alumni with his collegial mentorship and professional leadership that has helped so many professionals to advance practice and regulation of physical therapy profession. Mr. Packard has also devoted his time and energy in serving and engaging in sustainable community development in Mozambique, Africa with his wife, Cindy for the past 20 years.” – **Alan Lee '94 & Kyle Covington '04**

Arizona Chapter–American Physical Therapy Association

1981–1982 First Vice-President

1979–1986 Chapter Executive Board

1983–1984 President

1994–1999 Chapter Legislative Committee Chair
Federation of State Boards of Physical Therapy

1994–1997 Model Practice Act Task Force Chair

1994–1999 Legislative Committee Chair

1999–2004 President

Emerging Leader Alumni Award



Tara Widgins Dickson '12

Board Certified Orthopedic Specialist

Tufts University School of Medicine Director of Clinical Education and Assistant Professor

- 13 peer-reviewed publications and 9 abstracts
- >15 professional presentations on orthopedics, clinical education,

and financial literacy

- 2019 Education Leadership Conference Education Influencer Award- Outstanding Poster Presentation
- 2019 Academy of Physical Therapy Education Award- Promotion of Doctor Studies (PODS) II Scholarship
- 2018 University of North Texas Outstanding Graduate Student
- 2015 Texas Physical Therapy Association Tom Waugh Leadership Development Program Fellow
- 2014-15 University of North Texas Higher Education Scholar

“Dr. Dickson embodied the compassion, leadership, and work ethic which garnered respect from other clinicians, educators, and professionals around her. She took a genuine interest in my personal residency experience as well as the education of hundreds of physical therapy students. She went above and beyond to ensure each student felt cared for and gained a valuable experience during every lecture. She also demonstrated passion and perseverance in her time spent as a researcher and she has made an eternal impact in the profession of physical therapy. Dr. Dickson deserves the recognition as a Blue Devil who has gone on to better the lives of patients, colleagues, and students through her hard work and determination.” – **Nick Mahaffey '19**

“As an educator, Dr. Dickson is a living example of the mission of the APTA which is to build a community that advances the profession of physical therapy to improve the health of society. She is helping to build the community through her work with the advancement of innovative clinical education opportunities and also her service to educating future leaders regarding the power of service to the profession. She has empowered numerous students to take a bigger role in special interest groups along with taking a larger role in the Texas state association. In addition, she has helped foster broader education of financial literacy among health professionals and medical students through research and grant initiatives.” –

Mike Schmidt '12



Congratulations to the Class of 2023 Officers



President
Amanda
Clarke



Vice-President
Shawn
Armstrong



Secretary
Cindy Pan



Treasurer
Morria
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Natalie
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Lance Bennett

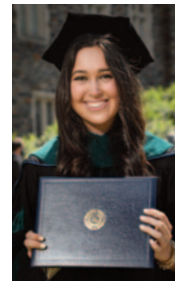


Alan Chiao

Our Class of 2021 student inductees into the American Council of Academic Physical Therapy National Physical Therapy Student Honor Society were: **Sabrina Burri, Rebekah Edie, Natalie McNerney, Holly O'Hearn, and Tati Paz.** The National Physical Therapy Student Honor Society was established by ACAPT in 2018 to recognize current Doctor of Physical Therapist students who demonstrate excellence, integrity, and professionalism in areas of academic achievement, leadership, service or research, and who demonstrate strong moral character, ethics and the core values of the PT profession.

Lance Bennett '21 was interviewed by the [Duke University School of Medicine](#) for graduation.

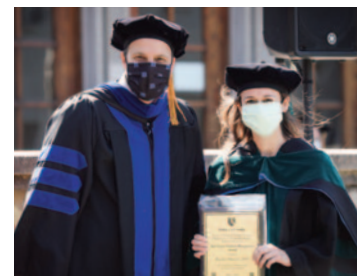
Alan Chiao '21 spoke on an International Student Panel hosted by the APTA NC Student SIG DEI Project Committee on March 27.



Sabrina Burri '21 (left) was a speaker for "The APTA NC and Why I should Get Involved as an SPT, SPTA, or #FreshPT" hosted by the APTA North Carolina Student and Early Professional Special Interest Groups on January 24. She was also the recipient of the Helen Kaiser Duke Physical Therapy Alumni Association Award.



Alexis Lacewell '21 (right), who received the Duke Doctor of Physical Therapy Cultural Diversity Award, was featured in her [hometown's newspaper](#).



Rachel Meyers '21, the winner of the Jan Gwyer Student Recognition Award for Academic, Clinical, and Scholarly Excellence, has been named as a Mary McMillan Scholarship

Award recipient by the American Physical Therapy Association. The intent of the Mary McMillan Scholarship Award is to recognize those students who exhibit superior scholastic ability and measurable potential for future professional contribution. She will be recognized by the APTA Board of Directors at the upcoming Mary McMillan Lecture and Honors & Awards Ceremony on Sunday, September 12 at the John F. Kennedy Center for the Performing Arts in Washington, D.C.

Tati Paz '21 received the Robert Bartlett Student Recognition Award for Service and Leadership Excellence.



Duke DPT students swept the special category prizes in the Big Blue Devil Scavenger Hunt!

Above: First-years **Cindy Pan** and **Holland Rauser's** team, "Breakdancing with Able Quads" won Best Selfie Pose with this photo.

Below: Second-years **Glenda Holcomb** and **Temple Dahn** won Most Creative Team Name with "Gone with the Win."



Team "Four" Rest Gump (**Maybelle Singson**, **EJ Proctor**, **Cole Burton**, **Andrew Robinson**, **Emma Coleman**, and **Melanie Caine**) won the **Class of 2023** TBT Trends Match Day Costume Contest



The **APTA NC DEI Project Committee** interviewed **Genna Locklear '23** (left), about her cultural experience as a member of the Lumbee tribe and how those experiences have influenced her journey into physical therapy.

Keddy Rwara '22 (2nd from left), was elected as one of the Directors of the Student Special Interest Group in the APTA Academy of Pelvic Health. (Photo caption)

Mohammad Saad '22 (2nd from right), was selected to serve as the Chair for APTA NC SSIG for the 2021-2022 year.

As the Director of Professional Development for the Students & New Professionals SIG of APTA Oncology, **Stef Stoller '22** (right), hosted a town hall event about Breast Cancer Rehabilitation on June 29.

Glenda Holcomb '22 received the 2021-2022 Exxat Student Scholarship in Diversity and Inclusion.



Amanda Clarke '23 was selected as the Chair-Elect of the APTA Student Assembly Diversity, Equity, and Inclusion Project Committee. **Shawn Armstrong '23** and **Lauren Alexander '22** (left) were also selected as committee members.

Maddie Tavino '22 (2nd from left), was accepted through a state-wide application process to participate in APTA NC's Delegation Mentoring Program.

A recipient of the 2021 Michelle P. Winn Inclusive Excellence Award due to his commitment to excellence, innovation, and leadership in creating a more diverse and inclusive environment, **Marcus Taylor, DPT '22** (2nd from right), was also accepted as the NC APTA Health Careers Liaison for the Triad District where he will be working with NC AHEC's Health Careers and Diversity Workforce Liaisons to help improve diversity within the PT field.



Chesney Ward '23 (above right), received a Wallace Wade Scholarship, awarded to Duke seniors or graduates that have earned varsity letters in either football, basketball, baseball, or track and field, and who have been accepted into a Duke graduate or professional program.

Pia Salcedo '22 (left), received a scholarship from the Noodles & Company Foundation.

Duke University School of Medicine
Doctor of Physical Therapy

Social Determinants of Health Affect Care-Seeking for Physical Therapy: A Systematic Review

Amanda Braaten, SPT; Cannon Hanebuth, SPT; Holt McPherson, SPT; Dashaé Smallwood, SPT; Samantha Kaplan, PhD; David Basirico, SPT; Derek Clewley, PT PhD, DPT; Zachary Rethorn, PT, DPT



“Social Determinants of Health Affect Care-Seeking for Physical Therapy a Systematic Review”

Class of 2021 capstone group
Amanda Braaten, left,
Cannon Hanebuth, Holt
McPherson, Dashaé
Smallwood, David Basirico

Mentors **Dr. Derek Clewley** and **Zachary Rethorn**

AWARD

Elsevier sponsored ePoster Presentation Award from the North America Caribbean region at the World Physiotherapy Congress 2021 Online

Duke University School of Medicine
Doctor of Physical Therapy

Barriers to Exercise in Postpartum Women: A Systematic Review

Rebekah Edie, SPT; Alexis Lacewell, SPT; Christine Streisel, SPT; Lauren Wheeler, SPT; Ellie George, SPT; Jordan Wrigley, MA, MEdS; Laura Pietrosimone, PT, DPT, PhD; Carol Figuers, PT, EdD



“Barriers to Exercise in Postpartum Women: A Mixed-Methods Systematic Review”

Class of 2021 capstone group
Bekah Edie, left, Alexis
Lacewell, Christine Streisel,
Lauren Wheeler, Ellie George

Mentors **Dr. Laura Stanley Pietrosimone '10** and **Dr. Carol Casper Figuers '81**

PUBLISHED

Journal of Women's Health Physical Therapy

Duke University School of Medicine
Doctor of Physical Therapy

Association of Youth Distance Running and Lower Extremity Injury: A Systematic Review

Tatiana Paz SPT, Rachel Meyers SPT, Cayla Faverio SPT, Jerry Wang SPT, Emily Vosburg SPT, Derek Clewley PT, SPT, PhD



“Youth Distance Running and Lower Extremity Injury: A Systematic”

Class of 2021 capstone group
Tati Paz, left, Rachel Meyers,
Cayla Faverio, Jerry Wang,
Emily Vosburg

Mentor **Dr. Derek Clewley**

PUBLISHED

International Journal of Environmental Research and Public Health



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Doctor of Physical Therapy

A Division of the Department of Orthopaedic Surgery

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