Harvard Medical School
Nerurorehabilitation Conference 2021
Instructional Personnel Disclosures

Instructor	Financial Disclosure	Non-Financial Disclosure
Alexander, Marcalee Sipski	- Receiving honoraria and reimbursement for travel and hotel for this conference from Spalding Rehab. - Royalties from Book, A Guide to Having a Great Sex Life with SCI - United Spinal Association	- Royalties from Book, A Guide to Having a Great Sex Life with SCI - Leading a walk from Canada to Key West, stops include teaching and speaking engagements
Blauwet, Cherie	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- No relevant relationships to disclose.
Bodien, Yelena	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- No relevant relationships to disclose.
Bonato, Paolo	- Receives a salary from Harvard teaching hospital and/or its affiliates. - Received two sub-awards from the company on NIH SBIR grants. - All health - Form Sense	- Member of the Scientific Advisory Board for Hocoma - Grant recipient, AHA, DOD, NIH, NSF - Grant Recipient Emorje Diagnostics - All.Health research support - Form Sense, Advisory board member
Brown, Justin	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- No relevant relationships to disclose.
Carter, Christopher	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- No relevant relationships to disclose.
Dickerson, Bradford	- Receives a salary from Harvard teaching hospital and/or its affiliates. - Receives a fee for consulting at Merck, Lily, Biogen and Piramal. - Receives a royalty for Authorship at Oxford University Press, Cambridge University Press.	- No relevant relationships to disclose.
Foley, Erin	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- No relevant relationships to disclose.
Frates, Elizabeth	- Receives a salary from Harvard teaching hospital and/or its affiliates. - On the Scientific Advisory Board for Jenny Craig and Curves. - Advises on latest science and guidelines in lifestyle medicine.	- No relevant relationships to disclose.
Fregni, Felipe	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- No relevant relationships to disclose.
Gannan, Michelle	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- No relevant relationships to disclose.

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Instructor	Financial Disclosure	Non-Financial Disclosure
Giacino, Joseph	- Receives a salary from Harvard teaching hospital and/or its affiliates. - Grants from National Institute of Neurological Disorders and Stroke, U.S. Department of Defense, National Institute on Disability, Independent Living and Rehabilitation Research and James S. McDonnell Foundation.	- No relevant relationships to disclose.
Gill, Megan	- Receives a salary from Mayo Clinic teaching hospital and/or its affiliates.	- No relevant relationships to disclose.
Glenn, Mel	- Receives a salary from Harvard teaching hospital and/or its affiliates. - Neurorestorative, contractor, receives salary - Community Rehab Care, contractor, receives salary - National Institute on Disability Independent Living, grant recipient	- Brain Injury Association of Massachusetts, member
Harris, Brian	- Receives a salary from Harvard teaching hospital and/or its affiliates. - Receives salary for management position and ownership of Medrhythms Inc.	- No relevant relationships to disclose.
Hochberg, Leigh	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- No relevant relationships to disclose.
Houston, Kevin	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- No relevant relationships to disclose.
Iaccarino, Mary Alexis	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- No relevant relationships to disclose.
Iverson, Grant	- Consulting fee for consulting for NeuroHealth LLC, and NeuroHealth Research and Rehabilitation Inc. Also receives a consulting fee for consulting for BioDirection Inc. ImPACT Applications, Inc. gives philanthropic support to his research program through the Spaulding Rehabilitation Network.	- No relevant relationships to disclose.
Kiran, Swathi	- Receives a salary from Boston University teaching hospital and/or its affiliates. - Constant Therapy (Stock privately held)	- No relevant relationships to disclose.
Knowlton, Sasha	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- No relevant relationships to disclose.

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Lin, David	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- No relevant relationships to disclose.
Macdonald, Kathryn	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- No relevant relationships to disclose.
Malec, James	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- No relevant relationships to disclose.
Mazwi, Nicole	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- No relevant relationships to disclose.
Mercier, Hannah	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- No relevant relationships to disclose.
Morales-Quezada, Leon	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- No relevant relationships to disclose.
Mudgal, Chaitanya	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- No relevant relationships to disclose.
Sabharwal, Sunil	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- No relevant relationships to disclose.
Sanders, R. Richard	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- No relevant relationships to disclose.
Shih, Shirley	- Receives a salary from Harvard teaching hospital and/or its affiliates. - Receives research grants from Foundation for Physical Medicine and Rehab and Milbank Physiatric after Traumatic Brain Injury Grant.	- Volunteer teaching as clinical instructor of Physical Medicine and Rehab for Harvard Medical School
Slocum, Chloe	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- No relevant relationships to disclose.
Steere, Hannah	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- No relevant relationships to disclose.
Sabharwal, Sunil	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- No relevant relationships to disclose.
Taylor, J. Andrew	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- No relevant relationships to disclose.
Triolo, Ronald	- Receives a salary from Case Western Reserve University	- No relevant relationships to disclose.
Trumbower, Randy	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- No relevant relationships to disclose.
Zafonte, Ross	- Receives a salary from Harvard teaching hospital and/or its affiliates.	- Scientific Advisory Board for Elminda, OXFIA Biophama and MYOMO.

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Instructor Bio's

Cheri Blauwet, MD
Dr. Blauwet is an Assistant Professor in Physical Medicine and Rehabilitation at Harvard Medical School and an attending physician at the Brigham and Women's Hospital and Spaulding Rehabilitation Hospital, where she also serves as the Principle Investigator for the Kelley Adaptive Sports Research Institute. She is a graduate of the Stanford University School of Medicine and completed her residency training in PM&R at Spaulding Rehabilitation Hospital/Harvard Medical School, where she served as Chief Resident, followed by a sports medicine fellowship at the Rehabilitation Institute of Chicago. Dr. Blauwet is also a former Paralympic athlete in the sport of wheelchair racing, competing for the United States Team in three Paralypmic Games (Sydney '00, Athens '04, Beijing '08) and bringing home a total of seven Paralympic medals. She is also a two-time winner of both the Boston and New York City Marathons, and has been nominated for the ESPY Award, the Laureus World Sports Award, and Women's Sports Foundation Athlete of the Year. Translating her background as an athlete to the clinic setting, Dr. Blauwet now serves as the Chairperson of the International Paralympic Committee's Medical Commission and serves on the Board of Directors for the United States Olympic Committee (USOC) as well as numerous other leadership roles throughout the Olympic and Paralympic Movement. In 2016, she was the recipient of the Harvard Medical School Harold Amos Faculty Diversity Award and was named one Boston's "Ten Outstanding Young Leaders" by the Greater Boston Chamber of Commerce. She has become a global advocate for the use of sport and physical activity to promote healthy lifestyles for all individuals with disabilities.

Yelena Guller Bodien, PhD
Dr. Bodien is a Research Scientist in the Department of Neurology at Massachusetts General Hospital and the Department of Physical Medicine and Rehabilitation at Spaulding Rehabilitation Hospital as well as an Instructor at Harvard Medical School. She is using advanced neuroimaging techniques and standardized neurobehavioral assessment to improve assessment precision and functional outcomes in acute and chronic stages of recovery from severe brain injury. Dr. Bodien is a member of the James S. McDonnell Coma and Consciousness Consortium which developing the largest database of neuroimaging studies of disorders of consciousness as well as the Transforming Research and Clinical Knowledge in TBI initiative which is collecting clinical data, CT/MR Imaging, blood biospecimens, and detailed outcomes on 3000 subjects across the US to phenotype traumatic brain injury, identify new diagnostic and prognostic markers and refine outcome assessments in TBI. Dr. Bodien is an active member of the American Congress for Rehabilitation Medicine and participates in the Brain Injury Interdisciplinary Special Interest Group that publishes evidence-based literature reviews. In that capacity, she is currently working to develop a case definition for the Post Traumatic Confusional State.

Paolo Bonato, PhD
Dr. Bonato serves as Director of the Motion Analysis Laboratory at Spaulding Rehabilitation Hospital, Boston MA. He is an Associate Professor in the Department of Physical Medicine and Rehabilitation, Harvard Medical School, Boston MA, an Adjunct Professor of Biomedical Engineering at the MGH Institute of Health Professions, Boston MA, an Associate Faculty Member at the Wyss Institute for Biologically Inspired Engineering, and an Adjunct Professor of Electrical and Computer Engineering at Northeastern University. He has held Adjunct Faculty positions at MIT, the University of Ireland Galway, and the University of Melbourne. His research work is focused on the development of rehabilitation technologies with emphasis on wearable technology and robotics. He received the M.S. degree in electrical engineering from Politecnico di Torino, Turin, Italy in 1989 and the Ph.D. degree in biomedical engineering from Universita` di Roma "La Sapienza" in 1995. A list of his publications can be found here.

Justin Brown, MD
Dr. Brown began his career as a member of the Neurosurgery faculty of Washington University in St. Louis, where he helped lead the Center for Nerve Injury and Paralysis in collaboration with the Division of Plastic and Reconstructive Surgery. After that, he established the UC San Diego Paralysis Center, expanding the paralyzing disorders treated to include spinal cord injuries as well as stroke and brain injuries. This center was unique as a comprehensive paralysis

center treating all forms of paralysis. Now, Dr. Brown is collaborating with other doctors at Mass General as well as the Spaulding Rehabilitation Network to establish the East Coast's first comprehensive paralysis center.

Christopher Carter, PsyD
After receiving his Psy.D. from the University of Denver, Dr. Carter has been a psychologist specializing in rehabilitation and brain injury since 1989. As the Director of Continuity for Brain Injury and Spinal Cord Services for the Spaulding Rehabilitation Network, he is working on developing systematic system-wide approaches to the assessment and care of individuals with brain injuries and spinal cord injuries. As the primary psychologist for the Spaulding Rehabilitation Hospital's Brain Injury Program, he cares for patients and their families and coordinates clinical care addressing the emotional and behavioral disturbances that can follow a brain injury. He has been a member of the Department of Psychiatry at Massachusetts General Hospital and the faculty at the Harvard Medical School since 2002 and a lecturer at the MGHIHP since 2006. He is active in the HMS PM&R residency program and chairs the Spaulding GME Committee. He has contributed chapters on traumatic brain injury to the MGH Comprehensive Clinical Psychiatry Manual and to The Handbook on the Neuropsychology of Traumatic Brain Injury. He has presented on a variety of topics related to brain injury the field of Rehabilitation Psychology at a number of regional, national and international conferences.

Brad Dickerson, MD
Dr. Dickerson is the Director of the Massachusetts General Hospital Frontotemporal Disorders Unit and Neuroimaging Lab in Boston. He is also a staff behavioral neurologist in the MGH Memory Disorders Unit and co-investigator on the Neuroimaging Core of the Alzheimer's Disease Research Center. He is an Associate Professor of Neurology at Harvard Medical School. Dr. Dickerson runs a busy weekly clinic caring for patients with various forms of cognitive impairment and dementia, as well as providing training for clinical and research fellows. His research employs quantitative structural, functional, and molecular neuroimaging techniques to investigate dementias as well as normal aging. He has published more than 100 articles in peer-reviewed scientific journals as well as many book chapters, and has edited two books on dementia. He has won a number of awards, including the American Academy of Neurology's Norman Geschwind Award in Behavioral Neurology.

Erin Foley, OTD, OTR/L
Erin Foley, OTD, OTR/L is an occupational therapist Advanced Clinician at Spaulding Rehabilitation Hospital where she treats patients with neurological conditions, including stroke, brain injury, and spinal cord injury. She holds degrees from MGH Institute of Health Professions and University of Notre Dame.

Elizabeth Frates, MD
Elizabeth Frates, MD, is trained as a physiatrist and a health and wellness coach. Her expertise is in lifestyle medicine, and she works to empower patients to reach their optimal level of wellness by adopting healthy habits. Recently elected to the Board of Directors of the American College of Lifestyle Medicine, Dr. Frates is helping to shape the scope of this new specialty. She is an award-winning teacher at Harvard Medical School and developed and taught a college lifestyle medicine curriculum at the Harvard Extension School, which is one of the most popular courses offered at the school. As the Director of Wellness Programming at the Stroke Institute for Research and Recovery at Spaulding Rehabilitation Hospital, Dr. Frates has created and implemented a twelve-month wellness program for stroke survivors and their caregivers. Co Author of the book, Life After Stroke: The Guide to Recovering Your Health and Preventing Another Stroke, and co-author of three chapters on behavior change in different medical textbooks, Dr. Frates is currently writing her next book. She is passionate about developing programs focused on lifestyle medicine and wellness.

Felipe Fregni, MD, PhD
Dr. Fregni is the director of Spaulding Neuromodulation Center. He is an Associate Professor of PM&R at Harvard Medical School and an Associate Professor of Epidemiology at Harvard T.H. Chan School of Public Health. He is a world

leader and one of the pioneers in the development of non-invasive brain stimulation in neurorehabilitation. He is one of the most cited researchers in this field.

Joseph Giacino, PhD

Dr. Giacino is the Director of Rehabilitation Neuropsychology and Research Associate in the Department of Physical Medicine and Rehabilitation (PM&R) at Spaulding Rehabilitation Hospital (SRH), Consulting Neuropsychologist in the Department of Psychiatry at Massachusetts General Hospital, Associate Professor in the Department of PM&R at Harvard Medical School and Adjunct Professor at the MGH Institute of Health Professions. He directs the SRH Neurorehabilitation Lab which seeks to develop more precise assessment and treatment methods for persons with severe acquired brain injury and disorders of consciousness (DoC). He co-chaired the Aspen Workgroup which established diagnostic criteria for the *minimally conscious state* and currently chairs the AAN, ACRM and NIDILRR-sponsored DoC Guideline Development Panel. He is the Project Director of the Spaulding-Harvard TBI Model System (NIDILRR, 2012-2022) and co-leads the Outcomes Core of the "Transforming Research and Clinical Knowledge in TBI" (NINDS, 2013-2018) and "TBI Endpoint Development (DoD, 2014-2019) projects, which aim to validate clinical, imaging, and genomic biomarkers to improve TBI diagnosis, prognosis and treatment. He also serves as Co-PI on a grant assessing, "Central Thalamic Stimulation for Traumatic Brain Injury" (NINDS, 2015-2020) and recently completed a TED seed grant in which his team developed an evidence-based assessment platform for evaluation of TBI clinical outcome assessment measures.

Megan Gill, PT, DPT, NCS

Dr. Gill is a clinician-researcher at Mayo Clinic, Rochester, Minnesota in the field of physical therapy for individuals with spinal cord injuries. She has worked with the SCI population for 14 years and currently works on research activities geared to recovery of motor activation and locomotion, specifically epidural stimulation and exoskeleton gait training. She is an active board member for two non-profit foundations, Chris Norton Foundation and the Neuro Hospital House.

Mel Glenn, MD

Dr. Glenn is the Chief of the Brain Injury Division of the Department of Physical Medicine and Rehabilitation at Spaulding Rehabilitation Hospital in 1998 and is an Associate Professor of Physical Medicine and Rehabilitation at Harvard. He is the former Project Director of the Spaulding/Partners Traumatic Brain Injury Model System. He has been the Medical Director of Brain Injury Services in Massachusetts for NeuroRestorative, which operates post-acute residential programs for people with brain injuries, since 1991, and the Medical Director of Community Rehab Care, a community-based outpatient rehabilitation and support services program for adults and children with disabilities since 1996. Prior to 1998, Dr. Glenn served as Professor and Chairman of the Department of Rehabilitation Medicine at Boston University School of Medicine. Early in his career, while on the faculty of Tufts University School of Medicine, Dr. Glenn was the Director of the Brain Injury Program at Greenery Rehabilitation Center. Dr. Glenn has published more than 50 peer-reviewed journal articles and book chapters and delivered hundreds of presentations on topics related to brain injury medicine. Dr. Glenn was editor of the "Update on Pharmacology" column of *Journal of Head Trauma Rehabilitation* from its inception in 1985 until 2013 and is now Editor Emeritus. He has trained many physicians at all three Boston medical schools during his medical career.

Brian Harris, MA, MT-BC, LCAT

Brian Harris is one of 250 Neurologic Music Therapy Fellows in the world and CEO of MedRhythms; a company focused on the intersection music, neuroscience and technology. Brian's clinical work is focused at Spaulding Rehabilitation Hospital in Boston where he created and implemented their first inpatient full time Neurologic Music Therapy program, specializing in Traumatic Brain Injury, Stroke, and neurologic disease and built this program to be the most comprehensive NMT program in the country. Brian is also the Chair of the Arts & Neuroscience group at the American Congress of Rehabilitation Medicine. He has given numerous presentations throughout the world at venues including: the American Academy of Neurosurgeons, the American Congress of Rehabilitation Medicine, Stanford University,

Berklee College of Music, Harvard University, and Google. Brian has a published piece in Frontiers of Psychology, where he co-authored an article entitled, "Sensory Stimulation and Music Therapy Programs for Treating Disorders of Consciousness". His work has also been featured in Forbes, CNBC, The Huffington Post, Pitchfork, Mashable, The Boston Herald, XConomy, MedTech Boston and on Chronicle Boston. Brian was recently named to MedTech Boston's 40 Under 40 Healthcare Innovators for 2017.

Leigh Hochberg, MD, PhD

Leigh Hochberg is a vascular and critical care neurologist and neuroscientist. His research focuses on the development and testing of novel neurotechnologies to help people with paralysis and other neurologic disorders, and on understanding cortical neuronal ensemble activities in neurologic disease. Dr. Hochberg has appointments as Professor of Engineering, School of Engineering and Institute for Brain Science, Brown University; Neurologist, Massachusetts General Hospital, where he attends in the NeuroICU and on the Acute Stroke service; Director, VA Center for Neurorestoration and Neurotechnology, Providence VAMC; and Senior Lecturer on Neurology at Harvard Medical School. He also directs the Neurotechnology Trials Unit for MGH Neurology, where he is the IDE Sponsor-Investigator and Principal Investigator of the BrainGate pilot clinical trials (www.braingate.org) that are conducted by a close collaboration of scientists and clinicians at Brown, Case Western Reserve University, MGH, Providence VAMC, and Stanford University. Dr. Hochberg is a Fellow of the American Academy of Neurology and the American Neurological Association. Dr. Hochberg's BrainGate research, which has been published Nature, Science Translational Medicine, Nature Medicine, Nature Neuroscience, the Journal of Neuroscience, and others, is supported by the Rehabilitation R&D Service of the U.S. Department of Veterans Affairs, NCMRR/NICHD, NIDCD, and NINDS.

Kevin Houston, OD

Dr. Kevin E. Houston is a low vision rehabilitation specialist with Massachusetts Eye and Ear Infirmary and Spaulding Rehabilitation Network, and a research scientist at Schepens Eye Research Institute. His research is currently centered on the development of visual aids for neurological visual impairments such as hemianopia and hemispatial neglect. Dr. Houston earned his Doctor of Optometry from Indiana University in 2003 and Masters in Visual science from the New England College of Optometry in 2014. He received additional research training program through the *Harvard Clinician Scientist Development Program* under the mentorship of Schepens senior scientist Dr. Eli Peli.

M. Alexis Iaccarino, MD

Dr. Iaccarino is physiatrist and clinical instructor in the Department of Physical Medicine and Rehabilitation at Harvard Medical School with clinical interest in sport and blast related mild traumatic brain injury. She graduated with a bachelor of science from Georgetown University and completed her medical degree at Georgetown School of Medicine in 2011. Dr. Iaccarino's current research interests are in novel approaches to recovery after mild TBI and the effects of placebo on mild TBI. Dr. Iaccarino is board certified in Physical Medicine and Rehabilitation with subspecialty certification in Brain Injury Medicine. She provides clinical care in the MGH Youth Sport Concussion Clinic, the MGH Home Base Program for military veterans with TBI, and the MGH/NFLPA Trust Brain and Body Program for retired professional football players.

Grant Iverson, PhD

Dr. Grant Iverson is Professor in the Department of Physical Medicine and Rehabilitation at Harvard Medical School. He serves as the Associate Director of the Traumatic Brain Injury Program at Home Base, A Red Sox Foundation and Massachusetts General Hospital Program. He also serves as the Director of the MassGeneral Hospital for Children™ Sports Concussion Program. As a clinician scientist, he has an internationally-recognized research program in two broad areas: (i) outcome from mild traumatic brain injury in athletes, civilians, military service members, and veterans; and (ii) improving the methodology for assessing and identifying mild cognitive impairment. He is a leading proponent of a biopsychosocial model for both good and poor outcome from mild traumatic brain injury. He has published more than 340 articles, reviews, and book chapters. Dr. Iverson served as the Chair for the Canadian Psychological Association Section on Clinical Neuropsychology from 2003-2010. He was a Member of the Board of Governors of the

International Neuropsychological Society from 2008-2011. He is a member of the Board of Governors of the International Brain Injury Association (2012-2017). He served as a consensus panel member for the 3rd and 4th International Conferences on Concussion in Sport in Zurich, Switzerland in 2008 and 2012, and the 5th International Conference in Berlin in 2016. He served as an Advisor to the Neurocognitive Disorders Workgroup (Traumatic Brain Injury) for the Diagnostic & Statistical Manual of Mental Disorders, 5th Edition (DSM-V). He also served as a founding member of the Traumatic Brain Injury Subcommittee of the Defense Health Board, a civilian advisory board to the United States Secretary of Defense. He served as the President of the National Academy of Neuropsychology in 2015, and continues to be a member of their Board of Governors.

Jonathan Jackson, PhD

Jonathan Jackson, PhD, is the director of the Community Access, Recruitment, and Engagement (CARE) Research Center at Massachusetts General Hospital and Harvard Medical School. CARE investigates the impact of diversity and inclusion on the quality of human subject's research and leverages deep community entrenchment to build trust and overcome barriers to clinical trial participation. His research focuses on midlife and late-life health disparities in clinical settings that affect underserved populations. Dr. Jackson also works as a cognitive neuroscientist, investigating the early detection of Alzheimer's disease, particularly in the absence of overt memory problems. He has become a well-known representative to underserved communities and dozens of affiliated organizations, particularly regarding participation in clinical research. Dr. Jackson serves on the leadership team of several organizations focused on community health, and has written guidance for local, statewide, and national groups on research access, engagement, and recruitment.

Swathi Kiran, PhD, CCC-SLP

Swathi Kiran is Professor in the Department of Speech and Hearing Sciences at Boston University and Assistant in Neurology/Neuroscience at Massachusetts General Hospital. She is the co-founder and scientific advisor for Constant Therapy, a software platform for rehabilitation tools after brain injury. Constant Therapy was recently acquired by Digital Health Corporation and is now called The Learning Corporation. Prior to Boston University, she was at University of Texas at Austin. She received her Ph.D from Northwestern University. Her research interests focus around lexical semantic treatment for individuals with aphasia, bilingual aphasia and neuroimaging of brain plasticity following a stroke. She has over 80 publications and her work has appeared in high impact journals across a variety of disciplines including cognitive neuroscience, neuroimaging, rehabilitation, speech language pathology and bilingualism. She is a fellow of the American Speech Language and Hearing Association and serves on various journal editorial boards and grant review panels including at National Institutes of Health. Her work has been continually funded by the National Institutes of Health/NIDCD and American Speech Language Hearing Foundation awards including the New Investigator grant, the New Century Scholar's Grant and the Clinical Research grant.

Sasha Knowlton, MD

Dr. Sasha Knowlton is an Instructor and the Assistant Director of Cancer Rehabilitation in the Department of Physical Medicine and Rehabilitation at Harvard Medical School. She completed her medical degree at The George Washington University School of Medicine and Health Sciences. She attended residency in Physical Medicine and Rehabilitation at Spaulding Rehabilitation Hospital/Harvard Medical School, where she served as Chief Resident, followed by a fellowship in Cancer Rehabilitation at Memorial Sloan Kettering Cancer Center. Dr. Knowlton is board certified in Physical Medicine and Rehabilitation. Her clinical and research interests are in cancer rehabilitation, with the goal of improving the function and quality of life of cancer patients during all aspects of cancer treatment and survivorship. Cancer rehabilitation helps patients with cancer function better in daily life. Cancer patients can experience chemotherapy induced peripheral neuropathy, dropped head syndrome, aromatase-inhibitor induced arthralgia, trismus, bowel and bladder incontinence, memory problems and pain from metastases in addition to other problems as a result of their cancer or treatment. The field of cancer rehabilitation aims to improve function and quality of life for cancer patients by treating these impairments.

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Instructor Bio's

David Lin, MD

Dr. David Lin is the Founder of the Stroke Motor Recovery Clinic of the Center for Neurotechnology and Neurorecovery at the Massachusetts General Hospital, Department of Neurology. His clinical passion is in helping patients recover after stroke and other acute neurologic injuries across the post-acute care continuum. His scientific interests are in understanding mechanisms of neural repair and recovery.

David received his B.S. with Honors in Mathematics and Computational Sciences from Stanford University in 2006 and his M.D., Magna Cum Laude, from the Harvard-MIT Division of Health Sciences and Technology at Harvard Medical School in 2013. He completed his Neurology residency at Massachusetts General Hospital / Brigham and Women's Hospital and subsequently the Clinical Fellowship in Neurorecovery at Massachusetts General Hospital / Spaulding Rehabilitation Hospital. He is a current Neurocritical Care Fellow at Massachusetts General Hospital / Brigham and Women's Hospital / Harvard Medical School.

Kathryn MacDonald, PT, DPT

Kathryn MacDonald, PT, DPT, NCS, is a physical therapist specializing in adult neurological rehabilitation, including vestibular dysfunction. She has achieved board certification in neurology, in addition to completing the American Physical Therapy Association (APTA) competency based courses in Vestibular Rehabilitation and Cervicogenic Dizziness. She is also LSVT® BIG certified. Her clinical practice is at Spaulding Rehabilitation Hospital Outpatient Center in Charlestown. Additionally, she is a lab instructor in the physical therapy program at the Massachusetts General Hospital Institute of Health Professions. Kathryn received her Doctorate of Physical Therapy from Duke University in Durham, North Carolina. She is a member of the APTA, Massachusetts Chapter, and Academy of Neurology Section.

James Malec, PhD

Dr. Malec is Senior Research Professor Emeritus, Indiana University School of Medicine and Professor Emeritus of Psychology at the Mayo Clinic. He is Board Certified in Clinical Neuropsychology and in Rehabilitation Psychology through the American Board of Professional Psychology. He serves as an Associate Editor for the Archives of Physical Medicine and Rehabilitation and for the Journal of Head Trauma Rehabilitation. He has received a number of professional recognitions, including the Lowman Award from the American Congress of Rehabilitation Medicine for interdisciplinary contributions to rehabilitation, the Research Award of the North American Brain Injury Society, the Career Service Award from the Brain Injury Association of Minnesota, and the prestigious Robert L. Moody Prize for Distinguished Initiatives in Brain Injury Research and Rehabilitation. He has over 165 peer-reviewed publications as well as other professional publications.

Nicole Mazwi, MD

Nicole Mazwi, MD received her medical degree from the Mayo Clinic in Rochester, Minnesota. She completed her internship at the Johns Hopkins Hospital/Sinai Hospital of Baltimore Internal Medicine Residency program and her Physical Medicine and Rehabilitation residency at the Spaulding Rehabilitation Hospital/Harvard Medical School program where she was Chief Resident. Dr. Mazwi completed a fellowship in Neurologic Rehabilitation at Spaulding Rehabilitation Hospital and Massachusetts General Hospital and joined the staff at both hospitals in 2012. Dr. Mazwi is the first-ever dedicated consult physiatrist in the Massachusetts General Hospital Neurologic Intensive Care Unit. Since 2014 she has served as Co-Director of the Harvard Medical School Brain Injury Medicine Fellowship Program at Spaulding Rehabilitation Hospital and Massachusetts General Hospital. She is a Neurotrauma Consultant for the National Football League. In her free time she volunteers for the Boston Ballet Company as an in-house physician - just in case anyone has a less than perfect landing.

Hannah Mercier, PhD, OTR

Hannah W. Mercier, PhD, OTR/L is a research scientist and Craig H. Neilsen Foundation postdoctoral fellow at Harvard Medical School Department of Physical Medicine and Rehabilitation. Dr. Mercier has studied participation and psychosocial wellbeing at 2 SCI Model Systems, and joined Dr. J. Andrew Taylor's Cardiovascular Research Laboratory in 2015 to explore the inter-relatedness of psychosocial factors with physical activity among individuals with SCI. She

has collaborated with Drs. Taylor and JP Onnela at Harvard School of Public Health to use digital phenotyping as a fine-grained approach to understand mood, exercise behaviors, social engagement, and community mobility in those with SCI. Her clinical background is in occupational therapy with those who have neurological conditions, and she has taught at MGH Institute of Health Professions and Tufts Occupational Therapy programs. Dr. Mercier is a member of the American Spinal Injury Association, the American Congress of Rehabilitation Medicine (Former SCI ISIG Early Career chair and Fitness and Wellness Task Force co-chair), the and American Occupational Therapy Association.

Leon Morales-Quezada, MD, PhD
León Morales-Quezada, MD, MSc, PhD is the Associate Research Director of the Spaulding Neuromodulation Center in the Department of Physical Medicine & Rehabilitation at Spaulding Rehabilitation Hospital and Massachusetts General Hospital. He is also the Director of the Neuromodulation Clinic, Spaulding Rehabilitation Hospital

Chaitanya Mudgal, MCh, MBBS
Dr. Mudgal has 32 years of Orthopaedic Surgery experience and nearly 17 years of Hand Surgery experience. He is residency trained and board certified in 3 different countries.
He has extensive training and experience in Neuro-Orthopaedic disorders such as Tetraplegia.
Based on his experience, he was invited to start and run the Tetraplegia Surgery Service at the VA Hospital in Jamaica Plain, MA.

Sunil Sabharwal, MBBS
Dr. Sunil Sabharwal is Chief of Spinal Cord Injury (SCI) at the VA Boston Health Care System, and the SCI Fellowship Director at Harvard Medical School in Boston, Massachusetts. Dr. Sabharwal has extensive experience in SCI-related practice, clinical leadership, research and education. He serves as a Board Director of the American Board of Physical Medicine and Rehabilitation. He is the author of a book on essentials of spinal cord medicine, which is a well-regarded resource for clinicians and trainees in the field. His has been the recipient of The Excellence Award of the American Paraplegia Society, the Outstanding Achievement Award of the American Board of PM&R, the Curtis Prout Fellowship in Medical Education at Harvard Medical School, The James J Peters award of the Academy of Spinal Cord Injury Professionals and several teaching awards.

R. Richard Sanders, MS CCC-SLP, MTS
R. Richard Sanders, MS CCC-SLP, MTS is Advanced Clinical Specialist in Speech Language Pathology at the Spaulding Rehabilitation Hospital where he serves as a resource in the areas of cognition, counseling, and treatment of patients with acquired neurogenic communication disorders, and is a supervisor for graduate student interns and clinical fellows. He is adjunct clinical faculty at Boston University Sargent College and has presented at conferences regionally and nationally. He holds degrees from the University of North Carolina at Chapel Hill, Boston University, and Harvard Divinity School. Rick is interested in factors in successful recovery from neurologic illness and injury including: the role of the family, the impact of the therapeutic relationship, spirituality, wellness, and the re-creation of meaning.

Shirley Shih, MD
Dr. Shirley Shih is a board certified physician and instructor of Physical Medicine and Rehabilitation in the Department of PM&R at Spaulding Rehabilitation Hospital/Harvard Medical School. She received her B.A. in Neuroscience from Pomona College, and her M.D. and M.S. degrees from Washington University in St. Louis School of Medicine. She completed a residency in Physical Medicine and Rehabilitation followed by a fellowship in Brain Injury Medicine at Spaulding Rehabilitation Hospital. Dr. Shih's clinical interests include neurorehabilitation and concussion management. Her research interests include neurologic injury in older adults and the role of physical activity on neurorehabilitation and hospital outcomes.

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Marcalee Sipski Alexander, MD
Dr. Marcalee Alexander is a consultant on the Spaulding-NERSCI System and runs a telehealth clinic in Sexuality with Spalding. She has performed extensive research related to sexual response and SCI and has published over 125 articles and book chapters regarding SCI. Dr. Alexander served as the first female president of the American Spinal Cord Injury Association and is on the International Spinal Cord Society, board of directors. She is Editor-In-Chief of the journal Spinal Cord Series and Cases and the Founder of Canada to Key West and The Day for Tomorrow.

Chloe Slocum, MD, MPH
Chloe Slocum, MD, MPH serves as a spinal cord injury physician at Spaulding Rehabilitation Hospital and as the Associate Director of Quality for Spaulding Rehabilitation Network and Health Policy Director for the Harvard Medical School Department of PM&R. Dr. Slocum graduated Phi Beta Kappa from Johns Hopkins University in 2007 with her degree in Public Health Studies and went on complete medical school at Columbia University College of Physicians & Surgeons in 2011. She completed her residency in PM&R at Harvard Medical School/Spaulding Rehabilitation Hospital in 2015, where she was also selected to serve as Chief Resident. She finished her fellowship training in spinal cord injury medicine with Harvard Medical School/Spaulding Rehabilitation Hospital/Boston VA and is Board Certified in PM&R and Spinal Cord Injury Medicine. In 2016, Dr. Slocum was selected as one of four candidates nationally to obtain extensive health policy and leadership training with the Commonwealth Fund Mongan Fellowship at Harvard Medical School and graduated with her Master of Public Health (MPH) in Health Policy from the Harvard T.H. Chan School of Public Health in 2017. She has presented nationally and internationally on health promotion for individuals with spinal cord injury and has served on major policy initiatives involving payment policy. She is active in clinical research and medical education in addition to her clinical and administrative roles.

Hannah Steere, MD
Dr. Steere is a general physiatrist in Boston at Spaulding Rehabilitation Hospital and VA Medical Center. She is originally from upstate NY, attended the University of Pittsburgh Medical School, and is a graduate of the Harvard Medical School/Spaulding Physical Medicine and Rehabilitation Residency Program. Since March of 2020 Dr. Steere has been involved in developing Post COVID-19 hospitalization rehabilitation programs at Spaulding.

J. Andrew Taylor, PhD
Dr. Taylor is an integrative physiologist, whose research focuses on human cardiovascular autonomic function and control. He conducts clinical/translational research on cardiovascular autonomic control and the impact of exercise on human health and disease. In addition, he has developed a clinical program that provides access to unique whole body exercise for those with neuromuscular disorders and promotes the importance of exercise for cardiovascular health. He has been a Harvard Medical School faculty member since 1995 and joined the Department of Physical Medicine and Rehabilitation in 2004. During his tenure in PM&R, he initiated research into a little-used form of whole body exercise for those with spinal cord injuries -hybrid-functional electrical stimulation exercise (electrically-stimulated legs coordinated with the arms for whole body rowing) to prevent inactivity-related cardiovascular autonomic deficits after spinal cord injury. He has been directly responsible for over $3 million in funding from the Neilson Foundation, the United States Olympic Committee Paralympic Military Program, the US Department of Defense, and NIH to support this work. A direct development from his research into the cardiovascular autonomic benefits of exercise is a clinical program that provides access to unique whole body exercise for those with spinal cord injury. The Exercise for Persons with Disabilities (ExPD) program provides access to physical activity for a broad range of those with neuromuscular disabilities who otherwise have limited access to appropriate exercise. The program highlights the importance of physical activity for human health and disease prevention.

Ronald Triolo, PhD
Ronald Triolo received a BS in Electrical Engineering from Villanova University, Villanova PA in 1980, and MS degrees in both Biomedical and Electrical Engineering from Drexel University in Philadelphia PA in 1982 and 1984, respectively, followed in 1986 by a doctorate in Biomedical Engineering for the design and clinical testing of an actively powered myoelectrically controlled above-knee prosthesis for trans-femoral amputees. Dr. Triolo was Director of Research at the Philadelphia Shriners Hospital from 1986 through 1994 where he investigated neuroprosthetic and

neurotherapeutic uses of neural stimulation for children with spinal cord injury or cerebral palsy. He is currently a tenured Professor of Biomedical Engineering at Case Western Reserve University and a Senior Career Scientist with the Rehabilitation Research & Development Service of the US Department of Veterans Affairs. Dr. Triolo is the Executive Director of the Center for Advanced Platform Technology of the Department of Veterans Affairs where he oversees the design, prototyping and production of novel medical devices and neural interfaces for the rehabilitation of individuals with paralysis, sensorimotor impairments or limb loss. He also directs the Motion Study Laboratory at the Louis Stokes Cleveland Veterans Affairs Medical Center where he pursues original research in the development and clinical application of peripheral nerve approaches for neuroprosthetic, neurotherapeutic and restorative technologies, limb prosthetics/orthotics, and dynamic exoskeletal systems along with the quantitative assessment of their outcomes. Dr. Triolo has authored over 130 peer-reviewed journal articles, 250 conference abstracts, 13 book chapters and 6 patents. He currently leads independently funded research programs sponsored by the NIH, VA, DoD, DARPA and the Craig H. Neilsen Foundation to restore or enhance the upright and seated mobility, posture and balance in individuals with neuro-musculo-skeletal disorders such as stroke, multiple sclerosis and spinal cord injury, and to restore natural sensation to lower limb amputees.

Randy Trumbower, PT, PhD

Randy Trumbower joined Spaulding Rehabilitation Hospital and Harvard Medical School's Department of Physical Medicine and Rehabilitation in July 2017. Prior to joining Spaulding, Dr. Trumbower held joint faculty appointments as Assistant Professor in the Departments of Rehabilitation Medicine & Biomedical Engineering at Emory University & Georgia Institute of Technology. He also served as Director of Research within Emory's Department of Rehabilitation Medicine. Dr. Trumbower is trained as a physical therapist and an engineer with advanced degrees in both. He completed postdoctoral training at Northwestern University and the Rehabilitation Institute of Chicago. He received his MS and PhD degrees in Biomedical Engineering from the University of Connecticut, as well as, his Master's degree in Physical Therapy from Duke University. Dr. Trumbower's research interest focuses on the study of novel technologies to improve functional recovery in persons with spinal cord injury. His research is funded by the National Institutes of Health, Department of Defense, and other private foundations.

Ross Zafonte, DO

Dr. Ross D. Zafonte is Earle P. and Ida S. Charlton Professor and Chairman of the Department of Physical Medicine and Rehabilitation at Harvard Medical School. He also serves as chief of Physical Medicine and Rehabilitation at Massachusetts General Hospital, as well as Vice President Medical Affairs Research and Education at Spaulding Rehabilitation Network. Dr. Zafonte's textbook is considered one of the standards in the field of brain injury care. Dr. Zafonte's work is presently funded by the NIH, DOD and NIDILRR, and he is currently directing several large clinical treatment trials. He has published extensively on traumatic brain injuries, spasticity, and other neurological disorders, as well as presented on these topics at conferences nationally and internationally. He is the author of more than 300 peer review journal articles, abstracts and book chapters. Dr. Zafonte also previously served on the Board of Governors of the American Congress of Rehabilitation Medicine (ACRM). He has overseen institutional and clinical finances in a variety of settings for nearly twenty years. In addition, he is on the editorial board of the Journal of Neurotrauma. He has previously served on the editorial board of as PMR. In 2006, Dr Zafonte was selected to receive the Walter Zeiter award and lectureship by the American Academy of Physical Medicine and Rehabilitation, and, in 2008, he was the recipient of the Association of Academic Physiatrists Distinguished Academician Award. In 2012, Dr. Zafonte received the William Caveness award for outstanding clinical care and research from the Brain Injury Association of America, and, in May 2013, he received the Joel DeLisa Prize from the Kessler Foundation. In 2014 Dr Zafonte received the Robert L Moody Prize in Brain Injury from the University of Texas, Galveston.