



# Department of Physical Therapy and Rehabilitation Science

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## PhD Faculty

*For a full list of faculty, clinicians, and staff in the Department, [click here](#) [1].*

## Overview

The PhD in Rehabilitation Science program includes a diverse cadre of faculty that span a range of scientific disciplines, including: anatomy, neurology, neurological surgery, pediatrics, kinesiology, epidemiology and biostatistics, radiology and biomedical imaging, chronic pain, orthopaedic surgery, physiological nursing, and anesthesia and perioperative care.

The PhD program is governed by a Steering Committee and works in cooperation with a number of other committees to run the program. The Steering Committee includes the following faculty:

- PhD Program Director: Richard Souza, PT, PhD, Professor [2]
- Musculoskeletal Biomechanics Specialization Lead: Richard Souza, PT, PhD, Professor [2]
- Clinically Informed Neuroscience Specialization Lead: Susanna Rosi, PhD, Professor [3]
- UCSF Department Chair: Amber Fitzsimmons, PT, MS, DPTSc, Associate Professor [4]
- SFSU Department Chair: Linda Wanek, PT, PhD, Professor [5]
- Internal UCSF/SFSU Faculty Member: Diane Allen, PT, PhD, Professor [6]
- External Faculty Member: Karunesh Ganguly, MD, PhD, Associate Professor [7]

[PhD Program Governance & Committee Structure](#) [8]

## Musculoskeletal Biomechanics Faculty

Faculty Name	Title	Department	Research Emphasis
Victor Cheuy, PhD [9]	Assistant Professor	Physical Therapy & Rehabilitation Science	Lower extremity musculoskeletal complications in diabetes

<b>Faculty Name</b>	<b>Title</b>	<b>Department</b>	<b>Research Emphasis</b>
Sibel Deviren, MD <sup>[10]</sup>	Professor	Orthopaedic Surgery	Chronic low back pain; Degenerative disc disease
Brian Feeley, MD <sup>[11]</sup>	Associate Professor	Orthopaedic Surgery	Knee and shoulder orthopedic injuries and surgical procedures
Kate Hamel, PhD <sup>[12]</sup>	Assistant Professor	Kinesiology, SFSU	Biomechanics and falls in the elderly
Wendy Katzman, PT, DPTSc, OCS <sup>[13]</sup>	Professor (Emeritus)	Physical Therapy & Rehabilitation Science	Osteoporosis; Kyphosis
Galateia Kazakia, PhD <sup>[14]</sup>	Associate Professor	Radiology & Biomedical Imaging	Biomechanics of bone failure to load
Thomas Lang, PhD <sup>[15]</sup>	Professor	Radiology & Biomedical Imaging	Biomechanics of bone and muscle adaptations to stimuli
Xiaojuan Li, PhD <sup>[16]</sup>	Associate Professor	Radiology & Biomedical Imaging	Lower extremity biomechanics in post-traumatic osteoarthritis
Thomas Link, MD, PhD <sup>[17]</sup>	Professor	Radiology & Biomedical Imaging	Imaging of osteoporosis and osteoarthritis
Anthony Luke, MD, MPH <sup>[18]</sup>	Professor	Orthopaedic Surgery	Running overuse injuries and osteoarthritis
Benjamin Ma, MD <sup>[19]</sup>	Professor	Orthopaedic Surgery	Orthopedic post-surgical biomechanics
Sharmila Majumdar, PhD <sup>[20]</sup>	Professor	Radiology & Biomedical Imaging	Osteoporosis; Osteoarthritis
Robert Matthew, PhD	Assistant Professor	Physical Therapy & Rehabilitation Science	Biomechanics; Human Movement
Richard Souza, PT, PhD <sup>[2]</sup>	Professor	Physical Therapy & Rehabilitation Science / Radiology & Biomedical Imaging	Biomechanics; Osteoarthritis
Linda Wanek, PT, PhD <sup>[5]</sup>	Professor	Physical Therapy, SFSU	Musculoskeletal rehabilitation

# Clinically Informed Neuroscience Faculty

Faculty Name	Title	Department	Research Emphasis
Gary Abrams, MD <sup>[21]</sup>	Professor	Neurology	Neurorehabilitation; Stroke
Diane Allen, PT, PhD <sup>[6]</sup>	Professor	Physical Therapy, SFSU	Multiple Sclerosis
Allan Basbaum, PhD <sup>[22]</sup>	Professor & Chair	Anatomy	Neurological basis of pain and its control
Michael Beattie, PhD <sup>[23]</sup>	Professor	Neurological Surgery	Spinal cord injury
Riley Bove, MD <sup>[24]</sup>	Assistant Professor	Neurology	Multiple Sclerosis
Jacqueline Bresnahan, PhD <sup>[25]</sup>	Professor	Neurological Surgery	Spinal cord injury
Nancy Byl, PT, MPH, PhD <sup>[26]</sup>	Professor (Emeritus)	Physical Therapy & Rehabilitation Science	Focal dystonia; Parkinson's Disease; Stroke
Myriam Chaumeil, PhD <sup>[27]</sup>	Assistant Professor	Physical Therapy & Rehabilitation Science	MR metabolic imaging of neurological disorders <sup>[28]</sup>
Dena Dubal, MD, PhD <sup>[29]</sup>	Associate Professor	Neurology	<b>Mechanisms of resilience in aging</b>
Adam Ferguson, PhD <sup>[30]</sup>	Assistant Professor	Neurological Surgery	Informatics and spinal cord injury
Donna Ferriero, MD <sup>[31]</sup>	Professor	Pediatrics	Neonatal hypoxia and ischemia
Karunesh Ganguly, PhD <sup>[7]</sup>	Assistant Professor	Neurology	Neurorehabilitation and machine-brain interface
Jeffrey Gelfand, MD <sup>[32]</sup>	Associate Professor	Neurology	Neuroinflammatory disorders and neuroimmunological disease
Jon Levine, MD, PhD <sup>[33]</sup>	Professor	Oral & Maxillofacial Surgery	Signaling in pain sensory neurons; Neural-endocrine control of inflammation
Jialing Liu, PhD <sup>[34]</sup>	Professor	Neurological Surgery	Stroke
Mervyn Maze, MB ChB <sup>[35]</sup>	Professor & Chair	Anesthesia & Perioperative Care	Anesthesia and brain function

<b>Faculty Name</b>	<b>Title</b>	<b>Department</b>	<b>Research Emphasis</b>
Patrick McQuillen, MD [36]	Associate Professor	Pediatrics/ Critical Care	Disorders of brain development
Christine Miaskowski, RN, PhD [37]	Professor	Physiological Nursing	Pain and symptomatology in oncology
Srikantan Nagarajan, PhD [38]	Associate Professor	Radiology & Biomedical Imaging	Functional brain imaging; Brain plasticity, learning, sensorimotor control
Susanna Rosi, PhD [3]	Professor	Physical Therapy & Rehabilitation Science / Neurological Surgery	Neuroinflammation; The aged brain; Traumatic brain injury
Mark Schumacher, MD, PhD [39]	Professor	Anesthesia & Perioperative Care	Treatment of chronic pain
Raymond Swanson, MD [40]	Professor	Neurology	Neuronal death pathways in Parkinson's disease
Kimberly Topp, PT, PhD, FAAA [41]	Professor & Chair Emeritus	Physical Therapy & Rehabilitation Science / Anatomy	Chemotherapy induced neuropathy
Zena Vexler, PhD [42]	Professor	Neurology	Neonatal stroke
Midori Yenari, MD [43]	Professor	Neurology	Stroke

## Other Contributing Faculty

<b>Faculty Name</b>	<b>Title</b>	<b>Department</b>	<b>Research Emphasis</b>
Robert Hiatt, MD, PhD [44]	Professor & Chair	Epidemiology & Biostatistics	Oncology and disease prevention
Amber Fitzsimmons, PT, MS, DPTSc [4]	Associate Professor & Chair	Physical Therapy & Rehabilitation Science / Anatomy	Interprofessional education
Jeannette Lee, PT, PhD, CLT, CSCS [45]	Associate Professor	Physical Therapy & Rehabilitation Science	Rehabilitation in oncology
Philip Sabe, PhD [46]	Professor	Physiology	Sensorimotor Integration and Learning

Faculty Name	Title	Department	Research Emphasis
Betty Smoot, PT, DPTSc, MAS <sup>[47]</sup>	Associate Professor	Physical Therapy & Rehabilitation Science / Anatomy	Breast cancer related lymphedema

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- [4] <https://ptrehab.ucsf.edu/amber-fitzsimmons-pt-ms-dptsc>
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