

School of Exercise and Nutritional Sciences

Faculty Areas of Expertise/Research

Professors

Bhutani, Surabhi – Assistant Professor

Integrates sensory (smell and taste related), metabolic, and neural measures to understand eating behaviors, food choice patterns, diet quality, and weight gain in humans; Influence of contextual factors (sleep, chronotype, modern food environment, etc.) on smell perception, taste preference, and food choices; Develop novel sensory based interventions to improve diet quality and weight loss.

Cannon, Daniel – Associate Professor

Cardiopulmonary physiology, skeletal muscle mitochondrial function, and exercise tolerance.

Domingo, Antoinette - Associate Professor

Locomotion biomechanics, motor learning and control in intact and disordered nervous systems; Optimizing the use of technology to restore gait, balance and health in individuals with neurological injury; adapted sports.

Green, Jeni – Assistant Professor

Assessing the impact of mind-body (e.g., yoga, mindfulness, meditation) and physical activity interventions on psycho-social outcomes; digital health; racial and ethnic minority health disparities; maternal health; behavior-change; community-based and mixed-methods approaches.

Gombatto, Sara - Professor

Mechanisms underlying musculoskeletal pain problems, with the goal of developing more targeted interventions. Emphasis on posture and movement factors associated with low back pain and lower extremity injury in the general population and in elite athletes; influence of psychological factors such as fear of movement.

Hooshmand, Shirin - Professor

Improve age-related changes in musculoskeletal health (bone, joint, and muscle), cardiovascular dysfunction and impairments in cognitive function that occur with physiological aging through nutrition interventions.

Hong, Mee Young - Professor

Effect of diets, functional foods and phytochemicals on risk factors of cardiovascular disease and colon cancer prevention; Nutritional status across the lifespan, in populations ranging from teenagers to frail older adults.

Johnson, Ashleigh – Assistant Professor

Physical activity promotion with an emphasis on community-based interventions and youth populations; identification of physical activity determinants and disparities around physical activity opportunities; behavior-change interventions; use of sports to promote physical activity in youth.

Kern, Mark – Professor/ Nutrition Program Director

The impact of diet and exercise on metabolism, appetite and weight regulation, risk factors for chronic diseases, and exercise performance.

Kressler, Jochen – Professor

Metabolic responses to exercise and nutrition interventions with focus on glycemic responses after feeding in response to short bouts of exercise.

Lebsack, Denise - Associate Professor

Athletic training; Prevention; Management and rehabilitation of athletic injuries.

Liu, Changqi – Associate Professor

Food chemistry, protein chemistry, food safety, food allergy, sustainable foods, alternative proteins, functional foods.

Mahar, Matthew – Professor/School Director

Promotion and measurement of physical activity and fitness in children and youth; identification of valid and reliable youth fitness testing methods; analysis of the effects of classroom-based physical activity programs on physical activity and on-task behavior.

Monroe, Katrina – Professor

Neurophysiological and biomechanical mechanisms of stress-related chronic pain conditions; Optimizing physical therapy interventions for the prevention and treatment of chronic musculoskeletal pain in culturally and linguistically diverse populations.

Amanda McClain – Assistant Professor

Social, structural, cultural, and life course influences on food choice, food provisioning, diet quality, and cardiometabolic health in low-income and historically-marginalized populations, especially Latine communities; causes and consequences of food insecurity; the role of food assistance programs in promoting food security, diet, and health; community-engaged and capacity-oriented research approaches; mixed-method research; behavior-change interventions.

Nogueira, Leonardo – Assistant Professor

Mechanisms of muscle fatigue, contractile dysfunction, and exercise-induced muscle regeneration under chronic inflammatory diseases, environmental pollutants (tobacco smoke), and acute and chronic hypoxia.

O'Connor, Shawn – Associate Professor

Health sensing technologies and rehabilitation strategies for improved recovery after neuromuscular injury or decline. Development of muscle and metabolic health sensing devices. Dynamics and control of locomotion. Mechanisms of fall risk in older adults. Use of computational models and experimental devices (e.g., virtual reality) for perturbing and assessing gait function.

Rauh, Mitchell - Professor

Running Injuries (emphasis in high school populations), Female Athlete Triad (emphasis in high school populations), Sports Injury Epidemiology (emphasis in high school populations), Sports Medicine/Orthopedics, Stress Fracture, Sports specialization in youth sports, Sudden cardiac death and other cardiac conditions in high school athletes, Evidence-Based Practice in Physical Therapy.

Reschechtko, Sasha – Assistant Professor

Neural control of movement, sensorimotor neuroscience, ecological hand use, movement-based assessment of sensory function.

Tuttle, Lori - Professor

Aging, metabolism and women's health. Particular interest in the area of female pelvic floor dysfunction and the role of skeletal muscle architecture and surrounding structures on pelvic floor function and the role of rehabilitation on these structures. Fecal and anal dysfunction and rehabilitation.

Wade, Frankie - Assistant Professor

Walking adaptability; propulsive mechanics during walking; life-space mobility in gait biomechanics; how aging alters our walking ability; incorporating emotions like fear into our analysis of gait; how racial, socioeconomic, and health disparities impact how we walk.

Weber Rawlins, Michelle – Assistant Professor

Concussion care seeking behavior in athletes and military personnel, concussion educational interventions, medical disqualification following concussion, Social determinants of health on concussion care seeking in historically underrepresented groups, concussion and nutrition practices, return to learn following concussion.

Zhao, Jing – Assistant Professor

Functionalities and flavor of food proteins; agricultural by-products utilization; novel protein development and characterizations; utilization of plant proteins and algae in alternative meat products; flavor characterization of foods.

Full Time Lecturers

Comana, Fabio – Fitness Specialist Program Director

Sports conditioning and sports nutrition, exercise physiology, corrective exercise and movement, behavioral and lifestyle coaching, weight loss, fitness certifications, fitness industry trends.

Diek, Melissa – Assistant Clinic Director

SDSU Adaptive Fitness Clinic: Adaptive Fitness and Exercise for Special Populations

Detwiler, Kim – Athletic Training Clinical Coordinator

Athletic Training, Work-life conflict and quality of life, management and rehabilitation of athletic injuries.

Greicar, Margo – Athletic Training Program Director

Athletic Training & AT Clinical Education. Prevention; Management and rehabilitation of athletic injuries.

Lane, Kelly – Pre-Physical Therapy Program Director

Analytical food science; Product development; Food business and management; Quantity food production.

Leung, Kenneth

Orthopedics, biomechanics, exercise, sports medicine.

Meredith, Suzanne

Exercise Science, Health Fitness Instruction-individual and group fitness, sports conditioning, corrective exercise, orthopedic exercise, fitness certifications, fitness industry trends.

Pavlov, Andrew

Orthopedic and Sports Physical Therapy with specific interest on ACL rehab, and shoulder and elbow injuries; Anatomy and Biomechanics; Intersection of rehab and performance training and exercise; other interests include education and mentoring for young physical therapists

Prescher, Kelly - Director of Clinical Education

Physical Therapy Clinical Education; Orthopedics; Modalities; Professional Issues.

Petrisko, Yumi – Didactic Program in Dietetics Director/Graduate Advisor

Medical Nutrition Therapy and Sports Nutrition

Soto, Matt – Clinic Director

SDSU Adaptive Fitness Clinic: Adaptive Fitness and Exercise for Special Populations