SUMMER 2017 MUSC STUDENT RESEARCH OPPORTUNITIES

MUSC Students,

When contacting faculty about potential research positions, please email them introducing yourself with a brief explanation of why you are interested in participating in their research and attach a copy of your resume or CV.

If you are chosen to work on a project and would like to fundraise for your summer stipend using DonorsCure.org, please contact Stephanie.Gerard@donorscure.org to get started.

For additional research opportunities, be sure to check out:
DART Summer Research Fellowship Program
SURP: Summer Undergraduate Research Program
SHP: Summer Health Professionals Research Program
CRI: Charleston Research Institute

*This list will be updated on a regular basis. If you are interested in hosting a summer student researcher and would like to be added, please contact Stephanie.Gerard@donorscure.org.

Dr. Emily Gottfried, Ph.D.

We are seeking research assistants in the MUSC Community and Public Safety Psychiatry Division (CPSPD) for several ongoing and new research projects. The CPSPD conducts consultations on forensic, sexual behavior, fitness for duty of licensed and certified medical and public safety professionals, and mental health aspects of public safety agencies' operational activities. In addition, it includes mental health treatment clinics in the community, correctional institutions, and juvenile justice facilities. Research is conducted across these areas with opportunities for a student to participate as a data collection, coding and entry Research Assistant (RA). An RA could also assist with literature reviews and in turn be included in presentations and publications as a co-author. At any given time, there are multiple studies in progress with a variety if CPSPD faculty as primary and co-investigators.

http://academicdepartments.musc.edu/facultydirectory/FacultyDetails.aspx?facultyId=7531
http://academicdepartments.musc.edu/psychiatry/cpspd/index.html

Email: forensicpsychiatry@musc.edu
Tel: 843-792-1461

Dr. Charles Greenberg, M.D.

Dr. Greenberg is currently conducting a study on the factors that contribute to thrombosis in cancer patients. A new FDA-approved whole blood coagulation instrument will be utilized to monitor spontaneous blood clotting patient's blood sample. Patients with cancer undergoing various treatments will be monitored over time and changes in the time required to initiate blood clotting will be monitored. We anticipate finding that patients with cancer have a shortened time to initiate blood clotting. Studies will be conducted to define what are those factors that contribute to the rapid formation of blood clots in cancer.

http://academicdepartments.musc.edu/facultydirectory/FacultyDetails.aspx?facultyId=5557

Email: greenbec@musc.edu
Tel: 843-991-8785

Dr. Jane Joseph, Ph.D.

We are examining the effects of brain stimuluation (transcranial direct current stimulation, ortDCS) on social skills learning in adolescents with autism. Research participants and their parents will enroll in a 14-week social skills training program. Adolescents will receive either active or sham tDCS during each of the weekly sessions. Pre- and post-treatment fMRI sessions will use tasks that tap into social awareness, social motivation and social anxiety. The main hypothesis is that after intervention, all participants will show increased social brain network response to faces (v. objects) and to direct (v. averted gaze), with a greater response in those receiving active tDCS. Adolescents are also expected to improve on clinical measures of social functioning. Students interested in this project will have an opportunity to assist with the final stages of fMRI data collection and analysis. Students will interact with faculty in Neuroscience, Psychiatry and Pediatrics and possibly with research participants and families. They will have an opportunity to learn more about autism spectrum disorder, brain stimulation and neuroimaging. Students will learn how to analyze fMRI and behavioral data, with an opportunity to present the findings at local conferences.

http://academicdepartments.musc.edu/joseph_lab/index.htm
https://www.projectrex.org/learning-enhancement-through-neurostimulation/

Email: josep@musc.edu
Tel: 843-792-7683

Dr. Joseph Schoepf, M.D.

Dr. U. Joseph Schoepf's cardiovascular imaging research team in the Radiology Department at MUSC is seeking passionate, self-motivated summer students to aid in the development of novel cardiovascular imaging techniques used to diagnose and manage patients with heart disease. Specifically, the research team aims to develop novel, non-invasive techniques to evaluate patients suffering from coronary artery disease using CT and MRI. The team also focuses on ways to make our current scanning techniques safer. Expanding clinical applications of non-invasive CT/MRI using new technology serves as the cornerstone for radiology research.

http://www.muschealth.org/providerdirectory/Schoepf-Joseph

Email: schoepf@musc.edu
Tel: 843-876-7146

Dr. Na Jin Seo, Ph.D.

Our research is to improve upper limb rehabilitation for patients with stroke, particularly by using sensory stimulation to enhance therapy outcomes of hand function. We are seeking help to assist us with conducting this clinical trial. We employ the intervention embedded in a standardized hand therapy program, and apply tools including clinical assessments, 3-D motion capture, MRI, electroencephalogram (EEG), and transcranial magnetic stimulation (TMS) to assess patients' improvement over time. Students with dedication, persistence, ability for problem-solving and trouble-shooting, and motivation to excel are particularly encouraged.

http://academicdepartments.musc.edu/chp/directory/faculty/seo.htm

Email: seon@musc.edu
Tel: 843-792-0084

Dr. Susan Teubner-Rhodes, Ph.D.

Our lab investigates the cognitive and neural bases for age-related declines in speech understanding in order to guide interventions for communication difficulties affecting older adults. We are seeking motivated summer students to help conduct a study that uses eye-tracking to examine how attentional control affects real-time recognition of speech in background noise. Students will assist with data collection, coding, analysis, and will have the opportunity to contribute to conference presentations and/or publications.

http://eckertlab.org/

Email: teubnera@musc.edu
Tel: 843-792-3921

Dr. Joachim Uys, Ph.D.

The main project is currently focusing on preclinical models of alcohol addiction as well as a smaller subproject in cocaine addiction. We are a neuroscience lab with a large emphasis on redox biochemistry. The summer student will work under direct supervision of one of my postdoctoral fellows and we have frequent lab meetings to discuss ongoing experiments.

http://academicdepartments.musc.edu/pharmacology/Faculty/Uys

Email: uys@musc.edu
Tel: 843-876-2348