Past Grants:

1K01MH122774-01 (PI: Zhu) 12/10/2020-12/09/2024
NIMH
Total Award Amount (including Indirect Costs): $720,396
Identification of Distinct Multimodal Biotypes of PTSD Using Data Drive Approach: A Multisite Big Data Study
The goal of this project is to utilize a data-driven computational approach and machine learning techniques to identify multimodal neural biomarkers of PTSD and multimodal biotypes of PTSD.
Role: PI

NARSAD Young Investigator Grant (PI: Zhu) 1/14/2019-7/14/2021
Towards Precision Diagnosis for PTSD Using Multimodal MRI: A multisite “Big Data” Study
The goal of this Research Project Grant is to utilize multimodal brain features, including structural MRI, resting state functional MRI (rs-fMRI) and diffusion tensor imaging (DTI), and machine-learning, to diagnostically differentiate patients with PTSD from trauma-exposed healthy controls.
Role: PI

Irving Imaging Pilot Award (PI: Zhu) 5/1/2017-5/1/2018
To advance PTSD research by using novel multimodal MRI, and machine learning methods, aiming to identify a neural signature of PTSD, and to examine its utility in predicting diagnosis, functional impairment, and symptom severity.
Role: PI

R01 AG062578 (PI: Lee) 10/01/2019-10/1/2024
NIA
Statistical method for neural mechanism mediating and moderating cognitive
system in Alzheimer's disease and aging research.
Role: Data analyst

David Lynch Foundation (PI: Neria) 7/1/2022-12/1/2024
Total Award Amount (including Indirect Costs, Zhu’s share): $130,255
A Phase 3 clinical trial on transcendental meditation and Posttraumatic Stress Disorder, suicide, and substance use in veterans
Role: Co-Investigator

Binational Science Foundation Grant (PI: Helpman) 2020-2024
Neural, behavioral, and endocrine correlates of trauma among women.
The goal of this project is to bridge existing gaps in understanding of behavioral, neural and endocrine mechanisms linking traumatic events to the development of PTSD.
Role: Co-Investigator

R01 MH111596-01 (PI: Rutherford) 9/1/2016-8/31/2021
NIMH
Cognitive and neural Mechanisms of Accelerating Aging in PTSD
The goal of this R01 Research Project Grant is to understand the biological mechanisms leading to increased rates of aging-associated medical diseases, cognitive decline, and frailty characteristics in older adults with Post Traumatic Stress Disorder (PTSD).
Role: Co-Investigator

R01 MH111596-01, Administrative Supplement (PI: Rutherford) 8/1/2019-7/30/2022
NIMH
Cognitive and neural Mechanisms of Accelerating Aging in PTSD
To understand the biological mechanisms leading to increased rates of aging-associated medical diseases, cognitive decline, and frailty characteristics in older adults with PTSD.
Role: Co-Investigator

R01MH105355-01A1 (PI: Neria) 7/1/15-6/30/19
NIMH
Neural Signature of Fear Overgeneralization in Trauma Exposed Adults
To use fMRI and machine learning analysis among trauma exposed adults and matched controls in order to characterize the neural signature of fear overgeneralization across diagnostic boundaries.
Role: Co-Investigator

R61/R33 MH116089 (PI: Schneier) 7/1/2018-7/1/2023
NIMH
Attention bias modification treatments in SAD
The present study is an open trial that seeks to examine the feasibility, acceptability, mechanism, and efficacy of a recently developed computer-based therapy in individuals with social anxiety disorder (SAD).
Role: FMRI analyst and data manager

Mack Foundation (PI: Fisher, Neria) 1/1/2015-12/31/2019
Trauma Modified Equine Assisted PTSD treatment
To test the safety, acceptability and efficacy of a trauma modified equine assisted treatment for war veterans
Role: Data Analyst

Bob Woodroff Foundation (PI: Fisher/Neria) 9/24/19 - 9/23/20
Training Program for a Proven Curriculum for Equine-Assisted Therapy for Veterans with PTSD Symptoms
Role: Data Analyst