

Potential Champion Fellows Projects - 2019/20

Principal Investigators and staff member institutions are provided here for your information only. These collaborations will largely be conducted remotely; however, the Fellows program does provide travel funding to the site of the XSEDE staff member to kick off and conclude the collaboration.

Although Campus Champions Fellows are not expected to contribute expertise to the projects to which they are matched, they may need a certain skill set in order to tackle higher-level activities during the course of their fellowships. Prerequisite skills, when necessary, are indicated in the table below.

PI	Institution	Consultant 1	Consultant 2	Consultant 3	Project Title
Edson Roberto Severnini	Carnegie Mellon University			Lonnie D. Crosby	Analysis of the effects of climate change on planning and operations of SERC's power system, Y1
Robert Cowen	Oregon State University			Lonnie D. Crosby	Automated classification of In Situ Ichthyoplankton Imaging System (ISIS) images using Convolutional Neural Nets on parallel computing infrastructure
Steven Massey	University of Puerto Rico	Chad Burdyslaw		Chad Burdyslaw	Characterization of the metabolic phenome of oceanic eukaryotic picoalgae using meta-metabolic networks derived from metagenomics, Y1
Yigui Wang	Southern Connecticut State University	DJ Choi	Vinit Sharma	Vinit Sharma	COMPUTATIONAL STUDIES ON PHYSICAL AND CHEMICAL PROPERTIES
Rich Knepper	XSEDE	Rich Knepper			Cyberinfrastructure Resource Integration
Carlos Maltzahn	University of California, Santa Cruz	Andrea Zonca		Rob Quick	Data Investigation and Sharing Environment for Big Weather Web, Y2
Sever Tipei	University of Illinois at Urbana-Champaign	Paul Rodriguez		Paul Rodriguez	DISSCO, a Digital Instrument for Sound Synthesis and Composition, Y3
Richard P. Signell	US Geological Survey	Andrea Zonca		Andrea Zonca	Exploring the full simulation modeling workflow on XSEDE, Y2
Michael Simeone	Arizona State University			Rob Quick	Fake News Shelf life:Content, Reach, and Ephemerality of Hyperpartisan News, Y1
NA	XSEDE	Not Applicable			Fellows Designed Project
Alison Lesley Marsden	Stanford University	Eroma Abeysinghe	Marcus Christie	Eroma Abeysinghe	Gateway for SimVascular Educational Users
Justin Edward Stopa	University of Hawaii, Manoa			David Bock	Geophysical information from high resolution satellite synthetic aperture radar (SAR) imagery, Y1
Eric Shook	University of Minnesota			Rob Quick	GISandbox: A Science Gateway for Geospatial Computing
Tendai Mutangadura	University of Missouri, Columbia	Philip Blood		Philip Blood	Identification of canine disease-causing mutations from non-coding, mapped and unmapped regions of whole genome sequences of healthy and disease-carrying dogs, Y2
Brian A. Primack	University of Pittsburgh	Mitch Horton	Joel Welling	Joel Welling	Leveraging Twitter as an Epidemiologic Tool to Understand Health Behaviors, Y1
Debra Fern Laefer	New York University	Jennifer Bakal	#N/A	Jennifer Bakal	Multiple Geospatial Data Integration In A Distributed Environment, Y1
Timour Radko	Naval Postgraduate School	Dmitry Pekurovsky	#N/A	Dmitry Pekurovsky	Numerical Modeling of Double-Diffusive Convection, Y2
David Tarboton	Utah State University	Anand Padmanabhan	#N/A	Rob Quick	Powering the HydroShare Science Gateway
Taeyoon Kim	Purdue University	Od Odbadrakh		Od Odbadrakh	Roles of Actomyosin Contractility in Force Generation and Cell Shape Changes, Y2
Robert Edwards	San Diego State University	Eroma Abeysinghe	Mats Rynge	Rob Quick	Searching the SRA
Michael Pritchard	University of California, Irvine			Lonnie D. Crosby	Simulating global climate with turbulence-permitting cloud superparameterization to train machine learning emulators and advance understanding of aerosol-cloud feedbacks
Patrick C. Fragile	College of Charleston	Si Liu		Si Liu	Testing the Role of Strong Magnetic Fields in Stabilizing Radiation-Pressure-Dominated Black Hole Accretion Disks, Y2
Eric Lease Morgan	University of Notre Dame	Eroma Abeysinghe	Eric Coulter	Rob Quick	The Distant Reader, Y1

James Taylor	Johns Hopkins University			Rob Quick	The Galaxy XSEDE Gateway
Pascale Garaud	University of California, Santa Cruz	Ian Wang		Ian Wang	Title: Quantifying transport by shearing instabilities in stellar interiors: differential rotation
Mao Ye	University of Illinois at Urbana-Champaign	David O'Neal		David O'Neal	Understanding Traders at Nano-second Time Scale, Y4
Donald Nathan Krieger	University of Pittsburgh			Leslie Morsek	VERY HIGH RESOLUTION FUNCTIONAL BRAIN MAPPING, Y1
Kate Cahill	XSEDE	Kate Cahill			Workforce Development: Education