

# CSDS 500 and ECSE 500 Fall 2020 Colloquium

11:30AM to 12:30PM  
Thursday, October 29, 2020

Zoom Webinar ID: 862 815 806  
Passcode: 914464

## “ ZettaScale Computing on Exascale Platforms”

We outline the vision of “Learning Everywhere,” which captures the impact of learning methods coupled to traditional HPC methods. We present several examples of "effective performance" improvements for traditional HPC simulations that learning (MLforHPC) provides. We discuss how we are applying the "Learning Everywhere" paradigm to advance therapeutics for COVID19. We will showcase the challenges and performance of scalable integrated HPC & AI software infrastructure developed to support long-running computational campaigns as part of the DOE's Medical Therapeutics project under the umbrella of the National Virtual Biotechnology Laboratory.



Shantenu Jha  
Rutgers University

Shantenu Jha is the Chair of Computation & Data Driven Discovery (C3D) Department at Brookhaven National Laboratory and Professor of Computer Engineering at Rutgers University. His research interests are at the intersection of high-performance distributed computing and computational & data science. Shantenu leads the the RADICAL-Cybertools project which are a suite of middleware building blocks used to support large-scale science and engineering applications. He was appointed a Rutgers Chancellor's Scholar (2015) and was the recipient of the inaugural Chancellor's Excellence in Research (2016) for his cyberinfrastructure contributions to computational science. He is a recipient of the NSF CAREER Award (2013), several prizes at SC'xy and ISC'xy as well as the winner of SCALE 2018. More details can be found at: <http://radical.rutgers.edu/shantenu>

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