2018 marks the fifth anniversary of HiPerGator, UF’s supercomputer for research. This symposium’s focus is to bring HiPerGator users from across campus together to showcase their research in a broad variety of disciplines, share their experience and results, and foster communication and collaboration among HiPerGator users.

The symposium consists of 14 ten-minute lightning presentations, a poster session, and luncheon for the participants with attending faculty and staff.
9:00AM  Welcome, Introduction  
*Erik Deumens, UFIT Research Computing*

9:15AM  Intelligent platform: Creating intelligence to empower researchers in diverse disciplines  
*Andy Li, Herbert Wertheim College of Engineering*

Deciphering how the human milk metabolome contributes to pediatric obesity  
*Dominick Lemas, College of Medicine*

Deploying bioinformatics services through object-oriented analysis pipelines  
*Alberto Riva, Interdisciplinary Center for Biotechnical Research*

Genome-enabled prediction of bull fertility in US Jersey cattle  
*Fernanda Rezende, College of Agricultural and Life Sciences*

Molecular dynamics simulations of grain boundary yielding behavior  
*Bryan Kuhr, Herbert Wertheim College of Engineering*

Gravitational lens modeling of high-redshift galaxies with MCMC approach  
*Chenxing Dong, College of Liberal Arts and Sciences*

Fusion of intelligent transportation systems and bridge information modeling  
*Alireza Adibfar, Rinker School of Construction Management*

10:45AM  Break

11:00AM  Accelerating protein-polymer dynamics on GPU architectures  
*Farhad Ramezanghorbani, College of Liberal Arts and Sciences*

Modelling lateral viscosity variations in Earth’s mantle  
*Marie Thomas, College of Liberal Arts and Sciences*

Identifying drivers of freshwater ecological degradation at the continental scale  
*Rafael Muñoz-Carpena, Institute of Food and Agricultural Sciences*

Genomic prediction of service sire fertility in U.S. dairy cattle  
*Juan Pablo Nani, College of Agricultural and Life Sciences*

Genome wide analysis to identify common genetic variants of high blood pressure  
*Nihal Rouby, College of Pharmacy*

Effects of sustainability and asymmetry on managing multiple natural resources  
*Woi Sok Oh, Herbert Wertheim College of Engineering*

The third generation is here: single molecule, long read sequencing in gene discovery  
*Christine Bruels, College of Medicine*

12:30PM  Luncheon for Participants and Registered Attendees  
Poster Session

2:00PM  2018 HiPerGator Symposium Ends