**KICP/AA Workshop**

**Thursday, January 30, 2020**

9:00 – 10:00: **Introduction to computing at RCC**

This section will cover

* + General introduction of RCC resources and dedicated resources to AA/KICP
  + What computing needs supported at RCC: Research computing needs beyond the capacity of your desktop
  + Layout of the RCC systems at RCC e.g. login nodes/compute nodes, filesystems, storage, quota etc. and transferring data to/from RCC resources
  + RCC support for Teaching, courses and training

10:00-10:15: **Coffee break**

10:15- 11:45: **Hands on workshop and advanced topics**

This section will cover

* + How to compile, run and submit jobs on RCC resources, in interactive and batch mode using the SLURM scheduler.
  + Example of how to avoid memory issues while running the jobs in interactive or batch mode.
  + Demonstration of execution of python code (probabilistic model code) in interactive mode and batch mode
  + GPU resources and support available at RCC and a quick intro to GPU programing environment on RCC systems
  + Demonstration of jupyterhub

11:45-12:15: **Emerging technologies updates and Resource updates**

This section will cover

* ML/Deep learning at RCC
* Midway3
* The newly announced Intel OneAPI
* Sharing, Reproducibility and Reusability of published data

12:00-1:00**: Open discussions and lunch**

* Support for XSEDE resources and introduction of the RCC XSEDE campus champion ( Raj Shukla)
* Introduction of KICP liaison person