

Big Data/Analytics

Central Support Infrastructure

Patrick J. Gossman, Ph.D.
Deputy CIO, Research
Computing & Information Technology

Computing and Information Technology

- Most of our high-performance computing services are

free of charge

- We've invested in additional research computing staff.
- We're bringing new services online.
- We're investing in a new data center.



Computing and Information Technology
5925 Woodward Avenue

WAYNE
STATE



GRANGER
ADVANCE THE ART OF BUILDING



HamiltonAnderson



**NEW C & IT CENTER
COMING FALL 2018**



So, what's available to you?

- High Performance Computing
 - The Grid (427 nodes with 8,212 cores)
 - 32 Graphic Processing Units (GPUs)
- Co-location and Hosting Services
- Mass Storage
 - 1.2 petabytes of high-speed storage
 - 1.6 petabytes just ordered
 - Added storage from OSIRIS NSF project
- High speed networks for moving large datasets locally or globally including a Science DMZ



Additional Services

- Hadoop/Spark cluster for unstructured data and support of the Master's Degree in Data Science
(Thank you, Provost Whitfield!)
- Container sandbox for quickly enabling new computing environments tailored to researcher needs
- Two new GPUs (Nvidia P100s)
 - 3,584 cores
 - 4.7 teraflops (4.7 trillion floating point operations per second)
- HIPAA Compliant Environments
- XSEDE Ambassadors
- Grant development support

The HPC Team



Michael
Thompson

Associate
Director, HPC



Aragorn
Steiger

Lead Systems
Software
Engineer



Hassan H.
Abdallah

Sr. Systems
Software
Engineer



Serguei
Fedorov

Lead Systems
Software
Engineer

For more information

- <https://tech.wayne.edu>
- <https://www.grid.wayne.edu>
- <https://tech.wayne.edu/kb.hosting-colocation>
- Contact me:

Patrick J. Gossman, Ph.D

Deputy CIO, Research

313 577-2085

pgossman@wayne.edu