Data Science Initiative

Eric Michielssen
Advanced Research Computing

DATA SCIENCE
MIDAS: Michigan Institute for Data Science
research, education, faculty hiring, industry collaboration

COMPUTATIONAL SCIENCE
MICDE: Michigan Institute for Computational Discovery and Engineering

RESEARCH IT SERVICES
ARC – TS: Technology Services
data science & analytics
high performance computing
storage, cloud

CONSULTING SERVICES
CSCAR: Center for Statistical Consulting and Research
data management, databases, analytics, visualization, GIS, statistics, computing
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NSF MRI: A Novel Platform for Data-Driven Computational Physics

Pls: Duraisamy, Garikipati, Mozafari, Figueroa, Evrard

New computer hardware and software ecosystem to enable large scale data-driven modeling of multiscale physical phenomena ranging from turbulent fluid flows to materials physics, cosmology, climate, and cardiovascular flow.

Enables High Performance Computing (HPC) clusters to communicate seamlessly and at interactive speeds on data-intensive work flows.

NSF DIBBS: Multi-Institutional Open Storage Research InfraStructure

U-M PI: McKee

Novel distributed storage system for researchers at U-M, MSU, and WSU to seamlessly access, share, and manage research data.

Fosters new collaborations in fields ranging from computational chemistry and high energy physics to neurodegenerative disease, statistical genetics, and population studies.
MIDAS Leadership

Brian Athey
Michael A. Savageau Collegiate Professor and Chair, Department of Computational Medicine and Bioinformatics Professor of Psychiatry and Internal Medicine

Al Hero
Jamison and Betty Williams Professor of Engineering Professor of Electrical Engineering and Computer Science, Bioengineering, and Statistics