# Data Science Initiative

**Eric Michielssen** 



### **DATA SCIENCE**

MIDAS: Michigan Institute for Data Science

research, education, faculty hiring, industry collaboration

### **RESEARCH IT SERVICES**

**ARC – TS: T**echnology **S**ervices

data science & analytics high performance computing storage, cloud

# COMPUTATIONAL SCIENCE

MICDE: Michigan Institute for Computational Discovery and Engineering

### **CONSULTING SERVICES**

**CSCAR:** Center for **S**tatistical **C**onsulting and **R**esearch

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### **Computational and Data Science**

### NSF MRI: A Novel Platform for Data-Driven Computational Physics

PIs: 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

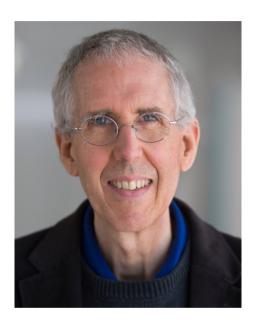
Novel distributed storage system for researchers at U-M, MSU, and WSU to seamlessly access, share, and manage research data

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