# Division of Mathematical Sciences (DMS) & Big Data

- DMS supports foundational mathematical, statistical, and computational approaches for big data challenges; development of algorithms, tools; modeling and analysis of complex data structures such as images, text, networks, and graphs, unstructured data formats, complex dependence structures, non-stationarity, missing information, and sparsity
- DMS Programs include Topology & Geometry Analysis, Applied Mathematics, Algebra and Number Theory, Computational Mathematics, Statistics, Probability, Math Biology
- DMS supports both Foundations and Innovative Applications proposals (applications to Biology, Geosciences, Social Sciences)

# Other Funding Opportunities

- Joint Initiative in Math Biology (DMS/NIGMS)
- Computational and Data-Enabled Science and Engineering in Math. and Stat. Sciences (CDS&E-MSS)
- Focused Research Groups (FRG)
- Research Training Groups (RTG)
- Mathematical Sciences Innovation Incubator  (MSII): co-funding mechanism
- Mathematical Sciences Institutes-A Community Resource (www.mathinstitutes.org)

National Science Foundation