Research Activities & Interest

University of Reading

High-performance storage for HPC

- Efficient I/O
  - Performance analysis methods, tools and benchmarks
  - Optimizing parallel file systems and middleware
  - Modeling of performance and costs
  - Tuning of I/O: Prescribing settings
  - Management of workflows
- Data reduction: compression library, algorithms, methods
- Interfaces: towards domain-specific solutions and novel interfaces

Other research interests

- Application of big data analytics (e.g., for humanities, medicince)
- Domain-specific languages (for Icosahedral climate models)
- Cost-efficiency for data centers in general