Data Science Laboratory

Members

Professor

Students

- **Sungroh Yoon**
  - sryoon@snu.ac.kr
- **Education**
  - PhD in EE, Stanford University, USA
  - MS in EE, Stanford University, USA
  - BS in EE, Seoul National University
- **Experience**
  - Senior Engineer, Intel Corporation, USA
  - Postdoctoral Scholar, Departments of EE and Genetics, Stanford University, USA
  - Assistant Professor, Korea Univ. Seoul, Korea
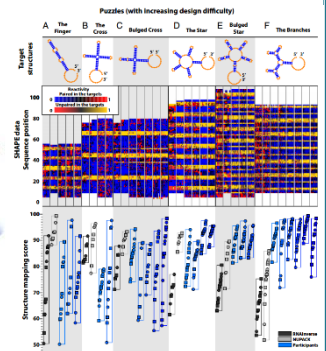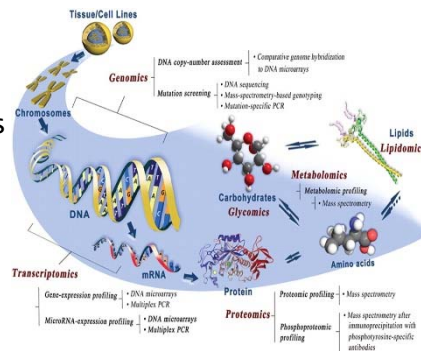 - Visiting Professor, Neuroscience, Stanford University, USA
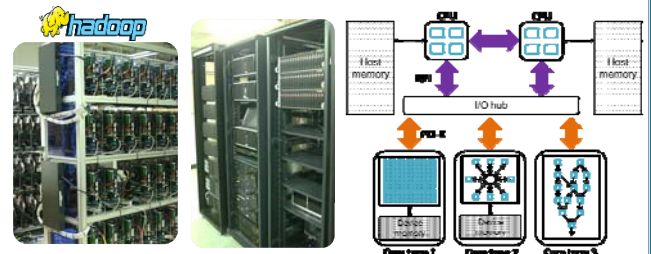
Research Areas

- **Machine Learning & Big Data Analytics**
  - Deep learning theory and applications
  - Computational genomics and bioinformatics
  - Spatiotemporal modeling and inference
  - Large-scale graph mining
  - Privacy-preserving data mining
  - Applications in biomedical big data
  - Applications in intelligent systems

- **Parallel & Distributed Computing**
  - Spark-based deep learning infrastructure
  - GPU/CPU parallel programming for accelerating machine-learning algorithms
  - Hardware/software co-design and acceleration for real-time big data analytics
  - Heterogeneous computing and intelligent dynamic load balancing

- **Emerging Computing & Storage Solutions**
  - Intelligent NAND-based storage systems for large-scale data processing
  - Energy-aware computing for micro/nano-scale electric power grid
  - Wearable devices for biomedical signal acquisition and monitoring