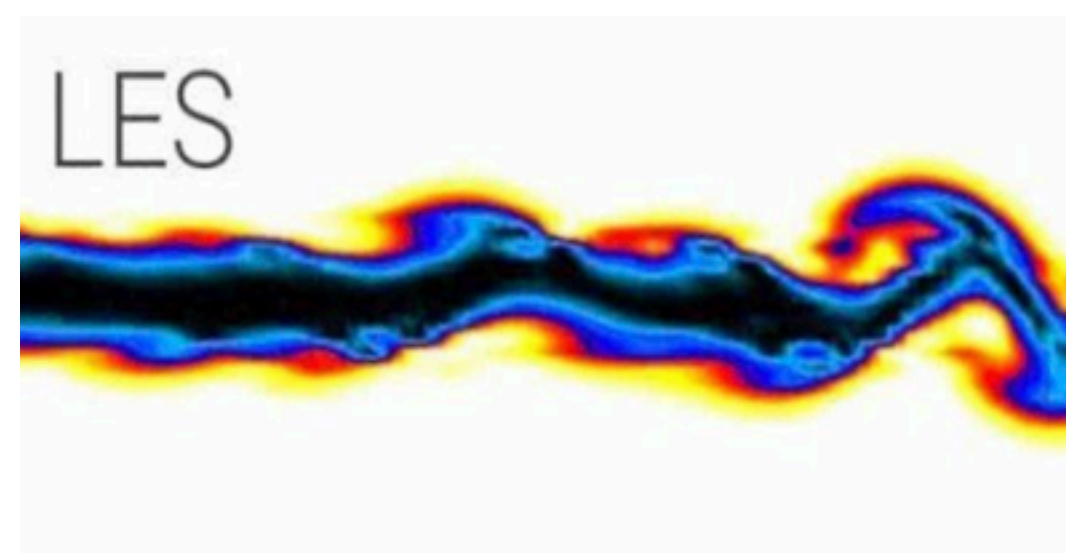
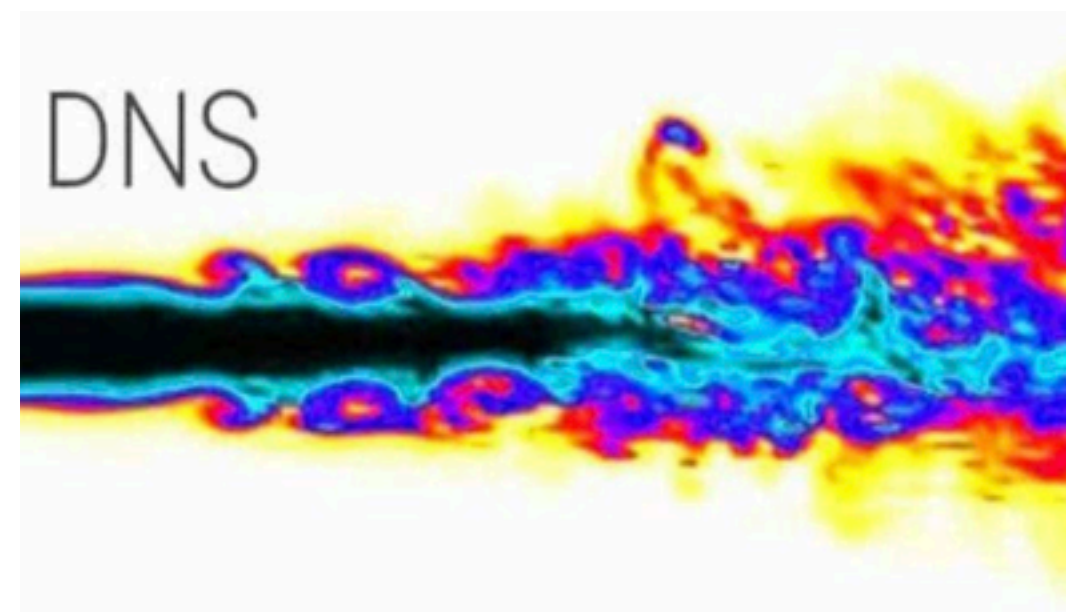


SBS Modeling

The Approach

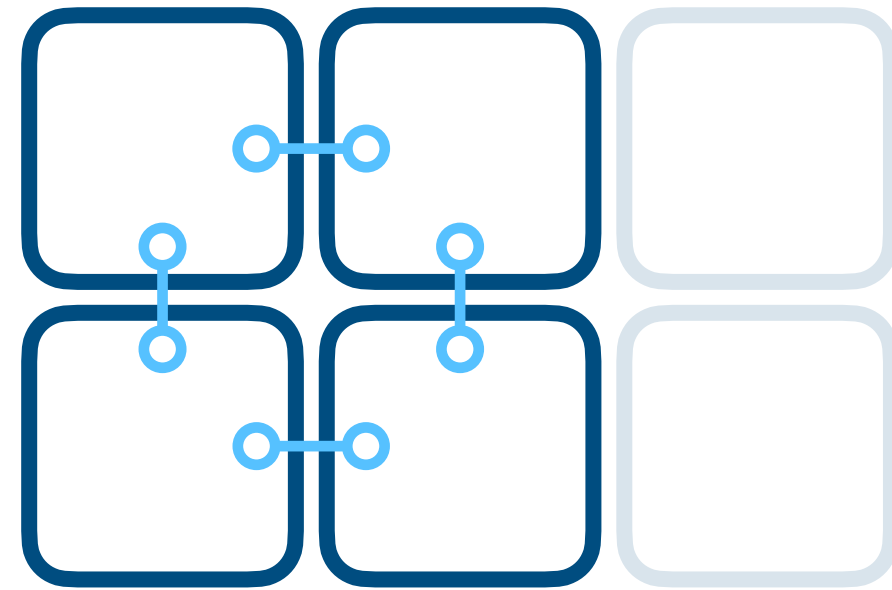


Instead of learning from SBS models, we learn from data degradation from a fully resolved DNS to an LES simulation.

The model needs to learn to produce a bias correction term by capturing the underlying Physics

MPI Processes

A few facts



- MPI is an application program interface that defines a model of parallel computing where each process has its own resources and data must be explicitly shared by passing messages between processes. **It is the network backbone of an HPC cluster.**
- Processes that resolved adjacent areas must be physically placed nearby one another to limit network bottlenecks
- The same is true with NUMA placement