



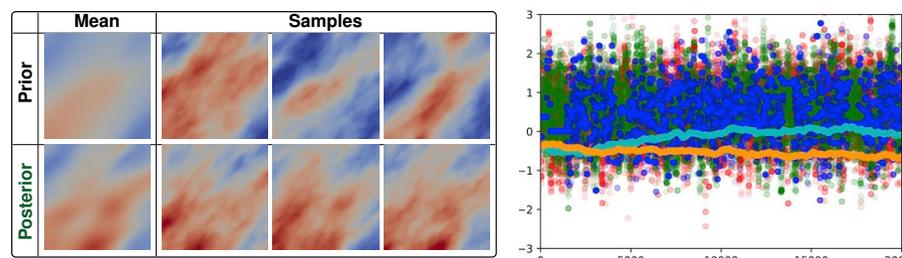
Award #: 1550487
 Award #: 1550547
 Award #: 1550593

CSSI Element: SI2-SSI: Integrating Data with Complex Predictive Models under Uncertainty: An Extensible Software Framework for Large-Scale Bayesian Inversion

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- Use **Bayesian framework** to
 - Extract knowledge from data
 - Quantify uncertainty in predictions
 - Make decisions under uncertainty
- Prohibitive with conventional algorithms** for complex high-dimensional models
- Develop scalable open-source software** to enable solution of **Bayesian inverse problems** of unprecedented size and realism
- Make advanced inversion capabilities available to a broader scientific community and **accelerate scientific discovery**
- muq.mit.edu hippylib.github.io



Scientific
Discovery

Open-source
Software

Community
Outreach