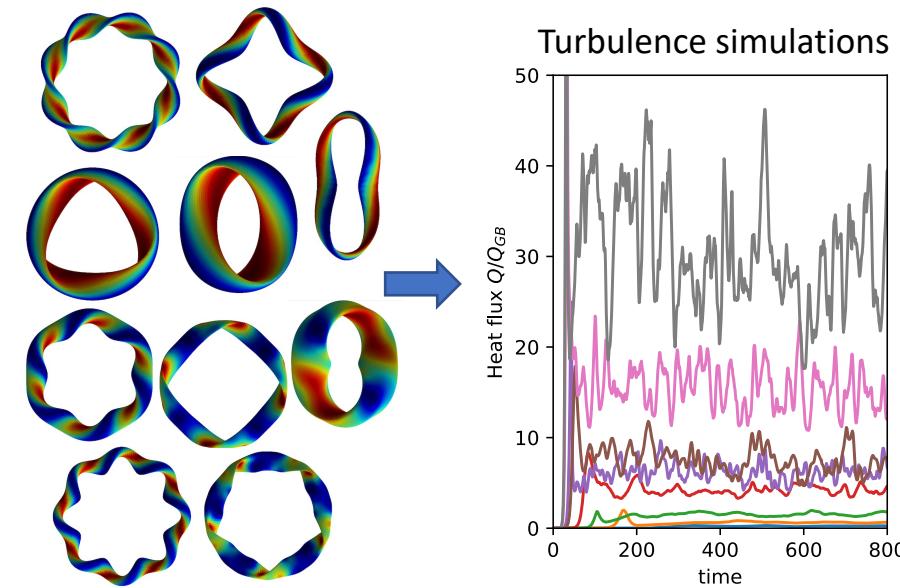
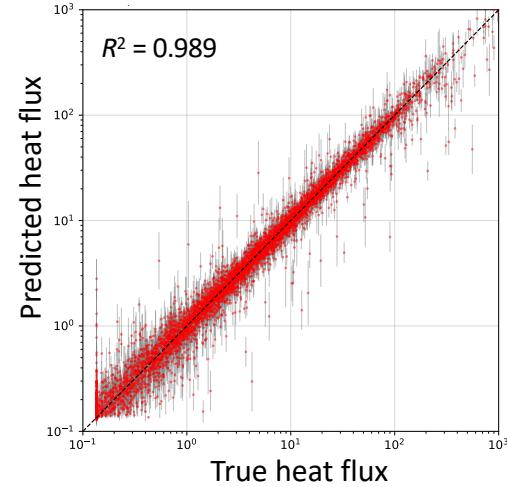
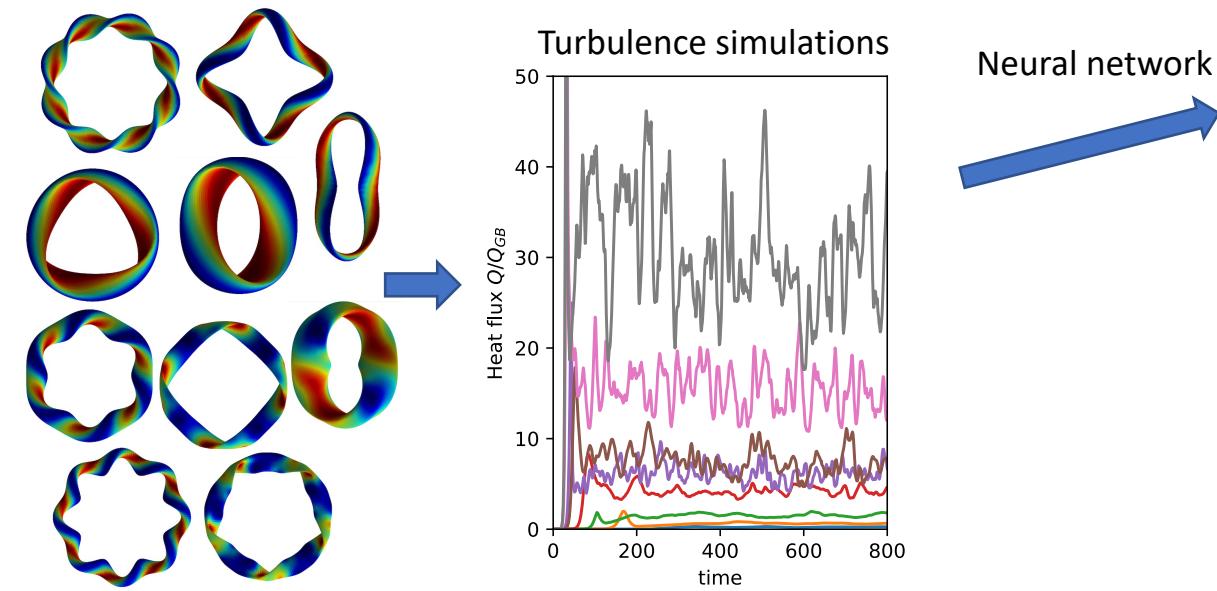


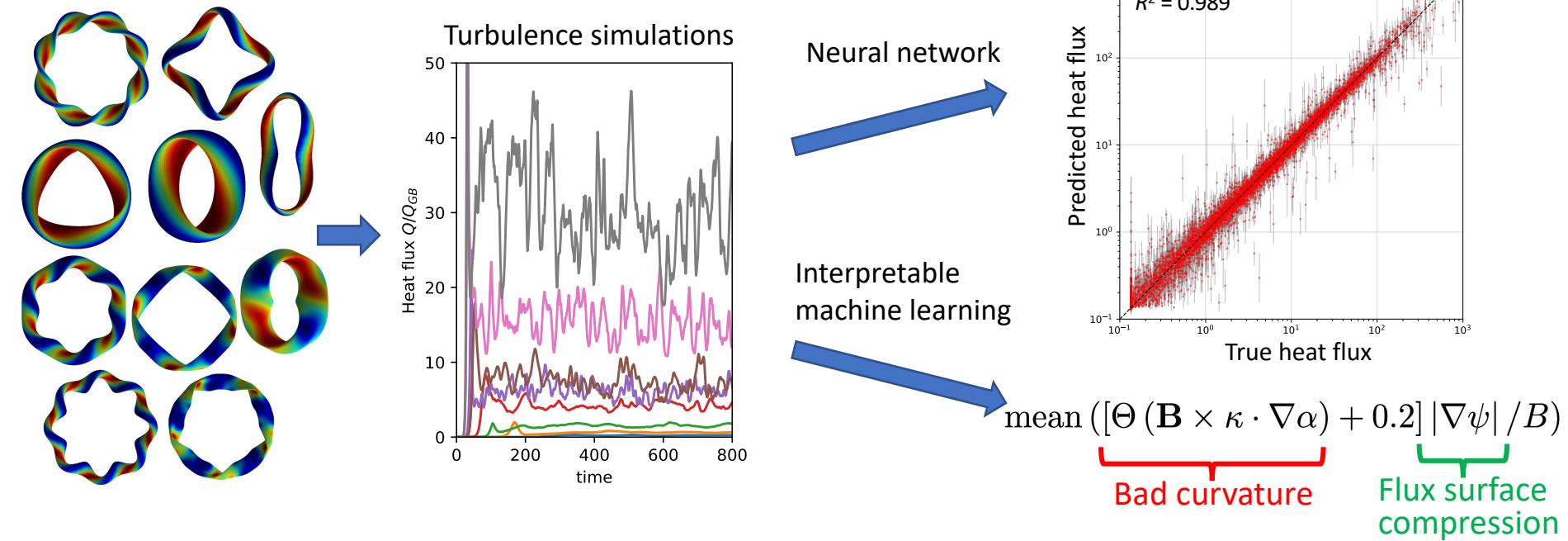
New dataset of >200,000 nonlinear gyrokinetic simulations of ITG turbulence in diverse stellarator geometries



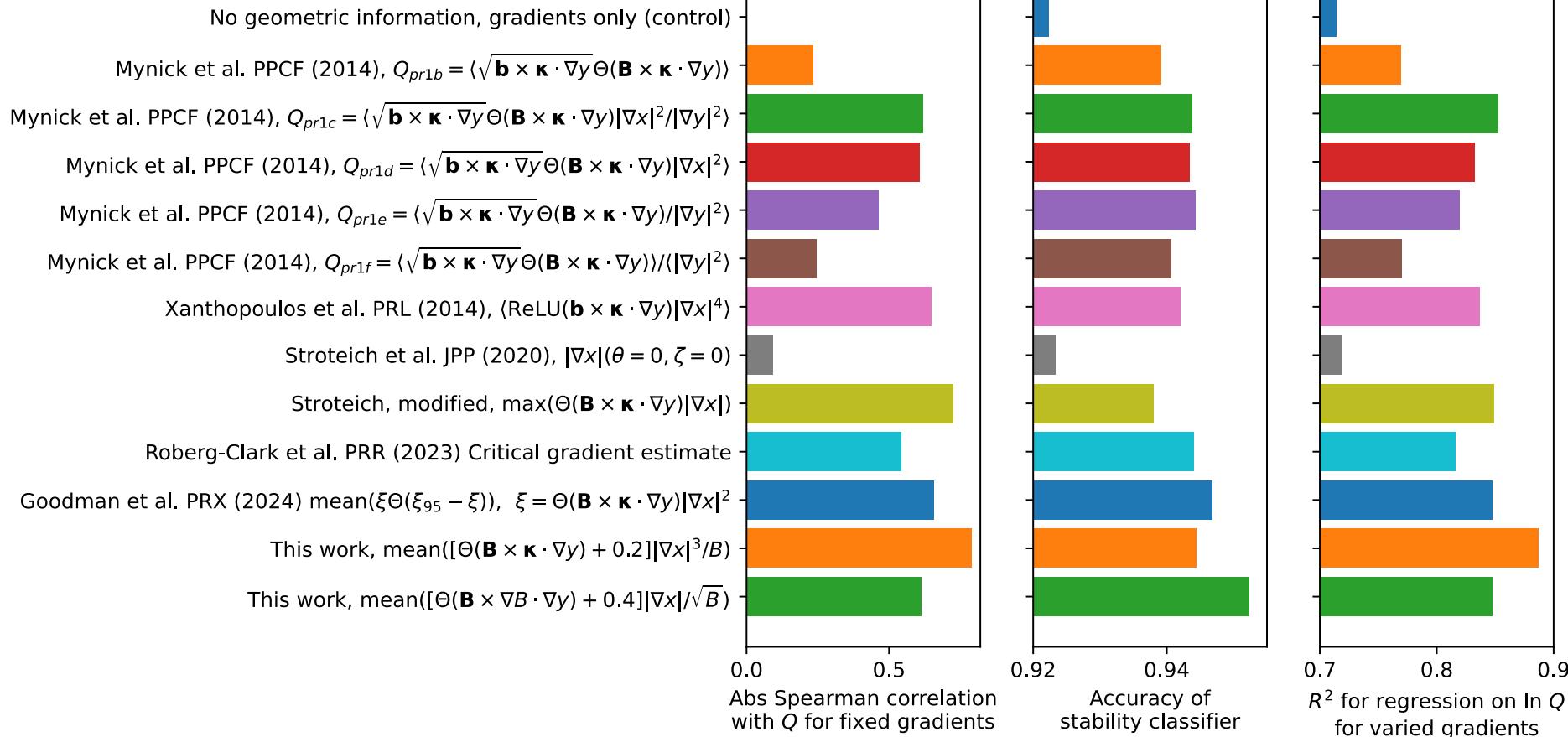
New dataset of >200,000 nonlinear gyrokinetic simulations of ITG turbulence in diverse stellarator geometries

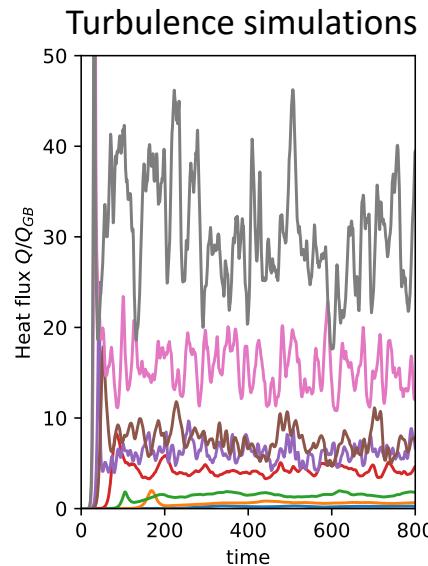
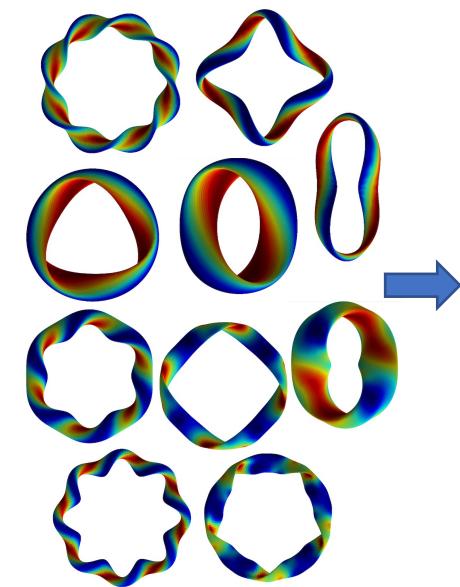


New dataset of >200,000 nonlinear gyrokinetic simulations of ITG turbulence in diverse stellarator geometries



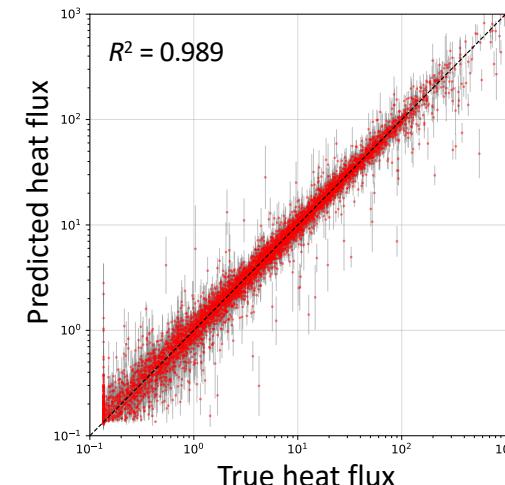
The data can also be used to test proposed turbulence cost functions





Neural network

Interpretable
machine learning



$$\text{mean} \left([\Theta (\mathbf{B} \times \boldsymbol{\kappa} \cdot \nabla \alpha) + 0.2] |\nabla \psi| / B \right)$$

Bad curvature

Flux surface compression