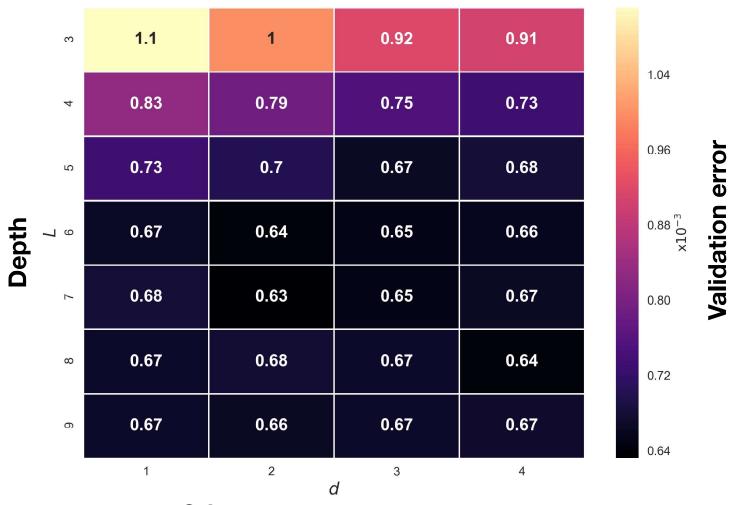
Lecture 25: Deep neural networks continued

Professor Ilias Bilionis

Hyper-parameter tuning



Grid search



Other structure parameter

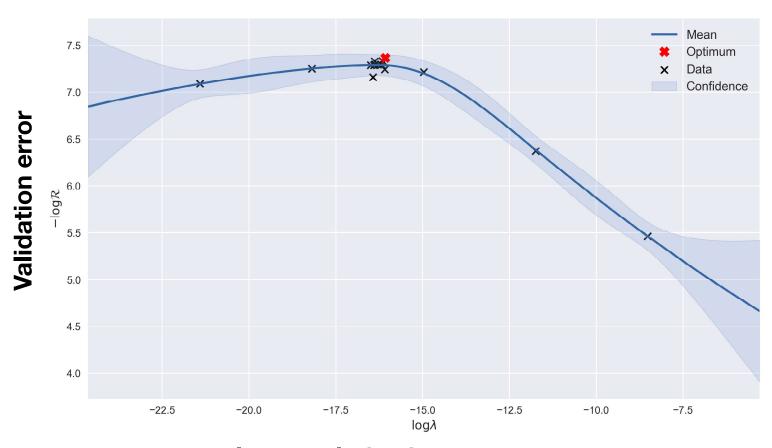
Tripathy, R. K.; Bilionis, I. Deep UQ: Learning Deep Neural Network Surrogate Models for High Dimensional Uncertainty Quantification. *Journal of Computational Physics* **2018**, *375*, 565–588. https://doi.org/10.1016/j.jcp.2018.08.036.



Bayesian global optimization



Bayesian global optimization



log-regularization parameter

Tripathy, R. K.; Bilionis, I. Deep UQ: Learning Deep Neural Network Surrogate Models for High Dimensional Uncertainty Quantification. *Journal of Computational Physics* **2018**, *375*, 565–588. https://doi.org/10.1016/j.jcp.2018.08.036.

