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Introduction to Uncertainty Quantification and Sensitivity Analysis. Uncertainty in outcomes can originate from multiple sources such as measurement errors in data collection, model identification, parameter uncertainty, and process stochasticity. In this workshop we will primarily focus on the last two types of uncertainties, since the data used in the model are from multiple sources and are used as fixed point estimates for parameters.

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Introduction The topic of Uncertainty Quantification (UQ) has witnessed massive developments in response to the promise of achieving risk mitigation through scientific prediction.

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