

## PhD week 12-Weekly summary

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## Beam problem-surrogate model

- Use the error/discrepancy ( $Y_{obs} - \hat{M}(X)$ ) as surrogate rather than FE simulations  $\hat{M}(X)$  - Monitor data is used to create error surrogate model rather to pass into the likelihood. Just pass the coefficients of RSM to likelihood
- In my case, Six-order polynomial function (response surface model) is adopted. Still not satisfying. Active learning?
- cutoff just use badChains in UQlab to remove. is that reasonable?

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# Write abstract of ESA

<https://github.com/ningxin999/ESA>

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