



**Theses offered
in statistical
model-data
integration**

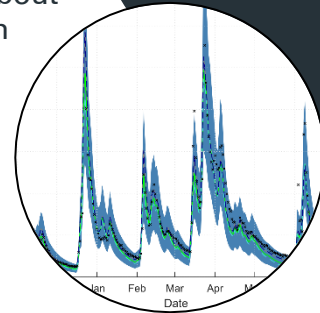
B.Sc. and M.Sc. theses available!

SimTech's independent research group on statistical model-data integration is offering topics for theses on B.Sc. or M.Sc. level.

Are you interested in supporting cutting-edge research projects about model evaluation, uncertainty assessment, or data-driven approaches in the context of hydro(geo)logical modeling?

Then send us your application with a description of relevant domain-specific knowledge, transcript of records, experience with coding, fields of interest, and desired starting date.

We are looking forward to hearing from you!



Ongoing Projects:

- [GeoMod4Future: Sustainable modeling for the geosciences](#)
- [UNI-BENCH: Diagnostic benchmarking of hybrid hydrological models](#)
- Bayesian inference in the presence of model error

Potential Tasks (will be a subset of these, depending on the respective topic)

- Literature research
- Development of theoretical concepts and statistical methods
- Implementation of methods in MATLAB, Python or Julia or adaptation of existing code
- Tests, validation and documentation of code
- Demonstration on case study data
- Visual presentation and context-specific interpretation of results

Desireable Skills

- Experience with coding in MATLAB, Python, R, or Julia
- Knowledge of hydrology, geology, statistics, and/or machine learning

Advisor

- Dr. Anneli Guthke (Independent Research Group Leader for Statistical Model-Data Integration, SimTech)



Apply now!

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