MSc thesis topic:

Time Series Analysis of Data with Large Gaps

The goal of this project is to robustly analyze incomplete data, e.g. ozone from retrieval of microwave measurements with gaps to to instrumental issues or weather conditions or gases related to ozone chemistry in the stratosphere from Spitsbergen which have large gaps due to polar night. Often methods which are applied are not very robust.

Newer methods involving sparsity-based and machine-learning-inspired approaches will be explored. The project will involve learning mathematical methods as well as atmospheric science. Programming will be a key part of the research.

Required skills:

- Computer and programming skills (Matlab or Python)

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