

Ludwig-Maximilians-Universität Munich
Department of Statistics



Invitation to the Final Presentation of the
Statistical Consulting Project

**Analysis and evaluation of an additive logistic
regression with respect to temporal and spatial
dependency of its predictor variables**

The relations between lightning occurrence over Europe from the European Cooperation for Lightning Detection (EUCLID) network and parameters derived from the ERA-Interim global atmospheric reanalysis were used to model the probability for thunderstorms occurrence.

The model was developed by fitting an additive logistic regression to multiple selected physical parameters. The physical parameters have been assumed to be independent, both temporally and spatially. This assumption does not hold in reality.

In this consulting project it is analyzed how a consideration of temporal and spatial dependency of the predictor variables changes the quality of the predictand. For this aim spatial and time components are developed and included in the additive logistic regression.

Date	Monday, 13th November 2017, 14:00 (c.t.)
Location	Ludwigstr. 33, Room 144 (Seminarraum)
Project Partner	Anja Rädler (Department of Physics)
Supervisor	Prof. Dr. Helmut Küchenhoff, Andreas Bender
Speakers	Siranush Karapetyan, Dominik Jüstel
