



Cartography M.Sc.

## Own Thesis TOPIC

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Topic title : Disaster Risk Perception: Improving Disaster Risk Communication Through Adaptive Thematic Mapping Techniques.

☒ is own topic - intended supervisor: Georg Gartner & Andrea Binn

Notes or remarks : The proposed topic is inspired by, and largely based on Georg Gartner's topic on SDG 13 Map Literacy. How people assess risk based on their interpretation of data visualisations is a topic that has been explored before, for example by Jon et al. (2019), where people's interpretation of warning polygons for tornadoes was assessed. How does this translate to different thematic map styles? To keep the scope of the research in line with a master's thesis, extra focus will need to be put on setting the scope of the research. Focussing on a specific type of disaster, e.g. floods, and limiting the number of map styles can be considered. Two specific areas of special interest to me, are uncertainty and translating risk perception into action. Disasters often have large degrees of uncertainty and communicating this effectively is essential to minimise the effects of a disaster. Investigating which map styles not only aid risk perception but are supporting the transition from awareness to action could be interesting.

Jon, I., Huang, S.-K. and Lindell, M.K. (2019), Perceptions and Expected Immediate Reactions to Severe Storm Displays. Risk Analysis, 39: 274-290.  
<https://doi.org/10.1111/risa.12896>