

# **EnvirVis 2022**

## **Workshop on Visualisation in Environmental Sciences**

**Rome, Italy  
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## Table of Contents

Table of Contents .....	iii
Steering Committee and International Programme Committee .....	iv
Author Index .....	v

### Papers

FloodVis: Visualization of Climate Ensemble Flood Projections in Virtual Reality .....	1
<i>Marzan Tasnim Oyshi, Verena Maleska, Jochen Schanze, Franziskus Bormann, Raimund Dachsel, and Stefan Gumhold</i>	
Tornado Visualizer: Analyzing the Destructive Impact of Tornadoes in the United States .....	11
<i>Nikolaj Hansen, Simon Lorentzen, Sofie Widell, Jakob Kusnick, and Stefan Jänicke</i>	
AtmoVis: Web Based Visualization of Air Quality Data with Interconnected Windows .....	19
<i>Benjamin Powley, Craig Anslow, and David James Pearce</i>	
LiDAR Operation and Digital Modeling Visualization to Communicate Stormwater Management at Green Spaces in Developing Regions .....	27
<i>Chien-Yu Lin, Aidan Ackerman, Douglas Johnston, Guohang Tian, and Yang Liu</i>	

### Keynote

Nadine Fleischhut (Hans-Ertel-Centre for Weather Research - WEXICOM) (Virtual)

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## Author Index

Ackerman, Aidan .....	27	Liu, Yang .....	27
Anslow, Craig .....	19	Lorentzen, Simon .....	11
Bormann, Franziskus .....	1	Maleska, Verena .....	1
Dachselt, Raimund .....	1	Oyshi, Marzan Tasnim .....	1
Gumhold, Stefan .....	1	Pearce, David James .....	19
Hansen, Nikolaj .....	11	Powley, Benjamin .....	19
Johnston, Douglas .....	27	Schanze, Jochen .....	1
Jänicke, Stefan .....	11	Tian, Guohang .....	27
Kusnick, Jakob .....	11	Widell, Sofie .....	11
Lin, Chien-Yu .....	27		

## Keynote

### **Boosting Risk Literacy: How to Transparently Communicate Uncertainty to lay Audiences**

*Nadine Fleischhut*

Hans-Ertel-Centre for Weather Research – WEXICOM

#### **Abstract**

As of today, forecasts and warnings for severe weather events are still often communicated in a deterministic way, despite the probabilistic nature of the underlying data. One main concern has been the difficulty to transparently communicate probability information to lay audiences in order to guide their decision. In this talk, I will give a primer on risk communication. I will introduce some key challenges for communicating uncertainty, review examples of do's and don'ts, and present insights from risk communication research on how to communicate uncertainty in a transparent way. I will conclude by outlining crucial steps to boost the risk literacy of the public and decision makers in real-world situations.

#### **Short Biography**

Nadine Fleischhut is interested in how to communicate risk and uncertainty in order to improve decision-making. She works as a research scientist at the Max Planck Institut for Human Development in Berlin, and is PI of the interdisciplinary project WEXICOM, funded by the German National Weather Service. Here, she currently investigates how to effectively communicate probabilistic impact forecasts for extreme weather events. Nadine has a Master's degree in analytical Philosophy and worked as a journalist at a TV-production company for science documentaries. After doctoral studies at the Max Planck Institute for Human Development, she received a PhD in Psychology from Humboldt University, Berlin. Since 2015, she works as a research scientist at Center for Adaptive Rationality at the Max Planck Institute for Human Development.