



# Timo Kelder

PHD HYDROCLIMATOLOGY

Loughborough, UK

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*“Large ensemble simulations to quantify and explain climate extremes”*

## Summary

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Timo Kelder is a PhD student in climate science at Loughborough University, with visiting status at Oxford University and ECMWF. Supervised by Prof. Rob Wilby, Dr Tim Marjoribanks, Dr Louise Slater and Prof. Christel Prudhomme, he analyses big data from large-ensemble climate model simulations to improve precipitation design standards and to assess trends in extreme precipitation. As part of an MSc in Earth and Environment at Wageningen University, Timo held an internship at the Norwegian Meteorological Institute (MetNor). As hydrologist within the project ‘Translating Weather Extremes into the Future’ at MetNor, he was part of an integral team to tackle high-impact flood events in Norway.

## Education

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### Loughborough University

PHD *Loughborough, UK*

*Sep. 2018 - exp. Sep. 2021*

- Large ensemble simulations to quantify and explain climate extremes.

### Wageningen University and Research

MSc. EARTH AND ENVIRONMENT *Wageningen, The Netherlands*

*Aug. 2015 - exp. Feb. 2018*

- Internship: Hydrological impacts of atmospheric rivers under current and future climate. Graded: 8.
- Thesis: A simplified routing model for data scarce lowland catchments. Graded: 8.
- Courses: 8

### Wageningen University and Research

BSc. SOIL, WATER AND ATMOSPHERE *Wageningen, The Netherlands*

*Sep. 2012 - Jul. 2015*

- Thesis: Bedform height and length increase linearly with distance from the sea in a tidal environment: a pioneering study of the tidal zone of the Kapuas river. Graded: 8.

## Work Experience

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### The Norwegian Meteorological Institute

RESEARCHER *Oslo, Norway*

*Feb. 2018 - Sep. 2018*

- Simulating high-impact flood events in Norway as part of the TWEX project.

### Ecovision

INTERN *Curaçao*

*Dec. 2015 - Feb. 2016*

- I applied the SWMM model to Curaçao to understand sediment transport in the rainwater drainage system of Curaçao.

## Extracurricular Activity

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EDITOR, NERC CENTA RESEARCH BLOG. *2016-2017*

## Presentations

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### EGU 2020

UNSEEN TRENDS: TOWARDS DETECTION OF CHANGES IN 100-YEAR PRECIPITATION EVENTS OVER THE LAST 35 YEARS *Online!*

*May 2020*

T. Kelder, M. Müller, L. Slater, R. Wilby, P. Bohlinger, T. Marjoribanks, C. Prudhomme, A. Dyrddal, T. Nipen and L. Ferranti

### AGU 2018

USING RE-FORECAST ENSEMBLES FOR EXTREME VALUE STATISTICS *Washington DC*

*Dec 2018*

T. Kelder, M. Müller, P. Bohlinger