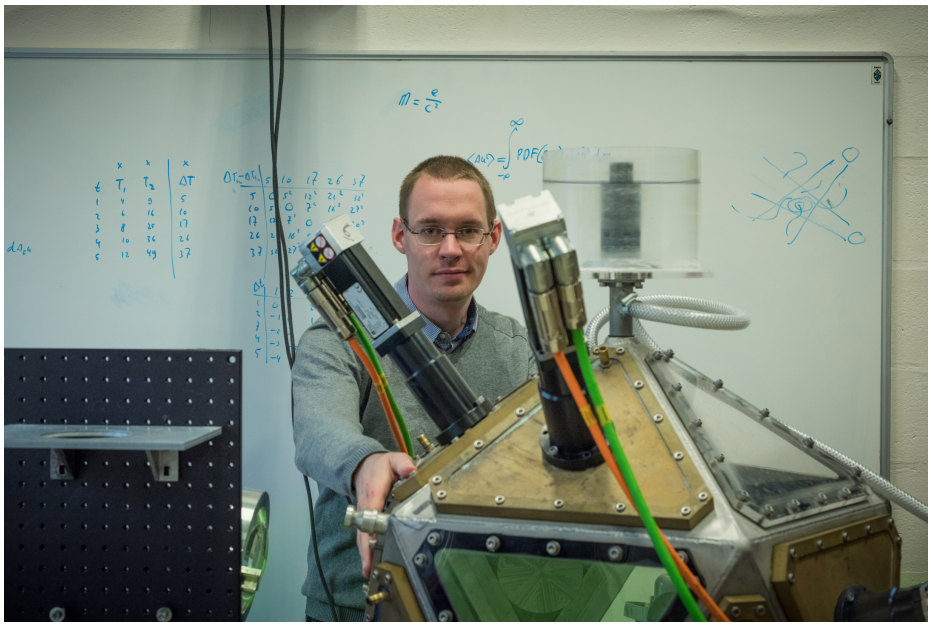
Interview with Sander Huisman
Tenure Track MCEC Assistant Professor



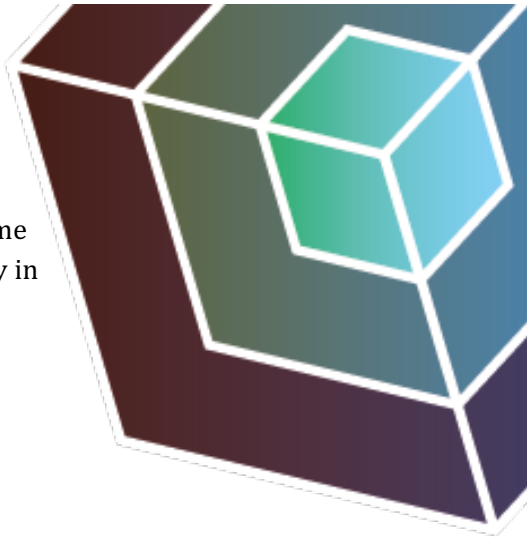
Welcome to the MCEC team! Could you tell us something more about your research and role in the MCEC program?

My role in the MCEC program will be to look at large-scale turbulent flows with inclusions. Inclusions can be particles, bubbles, or drops. In addition, these flows can have heat and mass transfer. Think for example about a chemical reactor where solid or gas reactants are combined in a turbulent flow. We will use a variety of experimental techniques to measure on these types of turbulent flows. The data will be used directly, but also for verification for numerical models.

How did you get into this particular discipline?
My background is in physics; I obtained my degrees at the University of Twente. The Fluid Dynamics track of the master gives a wide variety of knowledge on fluids (turbulent, microscopic, interfaces, granular, etc). This knowledge will be invaluable to study the reactions that happen in large turbulent reactors.

What are your first impressions of the MCEC program?
I have only just joined the MCEC program and only had followed two meetings. First impression is, is that the program brings together the very experts in the field of chemistry and fluid dynamics. For me the chemistry side is very new, my expertise lies in turbulence and experimental techniques. It is exciting to be able to work on a project that has an application already in sight. Sharing knowledge and facilities with the other universities will be a good way to broaden each other's knowledge.

What do you like to do when you're not at work?
I really like photography, especially low-light photography; there is something about capturing something that is hard to capture that is deeply satisfying to me.



Be it the stars, the aurora borealis, or a band performing in a bar, I love pushing the limits of ISO, aperture, and shutter speed. The same holds for my job; I see it as a challenge to measure a certain quantity in an experiment, pushing the frame-rates, the magnifications, and the timings. I love capturing something in a way no one else did before, and then share it with others.

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