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June 2018

Matthias Zeeman

Researcher

About Me I investigate the processes that underlie the interaction between the land surface and the atmosphere. The societal need for sustainable use of resources lead to questions about the effect of disturbances (environmental change, land management) on food production and air quality. The answers require *in-depth* knowledge about the mechanisms that control vegetation functions and land surface-atmosphere exchange.

Education

2005 – 2008, ETH Zurich

DrSc ETH Zurich (PhD) // on the climate impact of managed grasslands

1997 – 2004, Vrije Universiteit Amsterdam

MSc in Environmental Sciences

Experience

2009 – present, *Researcher*, ETH Zurich • PSI • Oregon State U • KIT

- **Impact** // gathered new scientific evidence about the sensitivity of land vegetation to human activity and environmental drivers
- **Innovation** // developed new networked (spatial-, remote-) sensing applications to quantify surface-atmosphere interactions
- **Multi-disciplinary** // state-of-the-art in atmospheric-, biogeochemical-, ecosystem- and data sciences concepts and techniques
- **International** // involved in leading teams in Europe and the USA

2002 – 2004, *Assistant & Intern*, Vrije Universiteit Amsterdam

Set up experimental stations in Siberian taiga & tundra, faculty IT support

Communication Skills

2010 – present, *Coordination*

Organized cooperative research campaigns and international workshops

2005 – present, *Presentation* (45+ oral, 20+ poster)

Presented research for my PhD degree and Postdoc projects

2005 – present, *Publication* (29 refereed articles, 680+ citations, *h* 12)

Software Development Skills

Programming & Data sciences

- R
- Matlab
- Perl/RegEx
- LabVIEW
- Python
- NetCDF/CF
- PHP/SQL
- XML/HTML

Technologies

- Wind-LiDAR
- DTS

Awards

2016, *Research Grant*, DFG (Germany)

Awarded for fundamental research in Atmospheric Sciences

2010, *ETH Medal Award*

Awarded to a top 8% PhD Thesis

2009, *Postgraduate Fellowship*, SNSF (Switzerland)

Awarded to prospective researchers towards international exchange