

# Dr. ir. D. W. van der Meer

Energy meteorologist and data scientist with 7+ years of experience. Passionate about contributing to mitigating climate change through technological innovation in the energy sector.

## CONTACT

✉ denniswillemvandermeer@gmail.com  
☎ +33 7 66 42 82 84  
@DWvanderMeer  
in Dennis van der Meer  
id 0000-0002-9473-4536  
🔍 Google Scholar publication list

## SKILLS

### Programming

R  
Python  
Matlab  
Scala  
Julia  
LaTeX

### Operating Systems

Linux  
MacOS  
Windows

### Software & Tools

Visualisation  
(e.g. ggplot, matplotlib, ...)  
Data handling/analysis  
(e.g. dplyr, numpy, scipy, ...)  
Machine learning  
(e.g. caret, scikit-learn, ...)  
Optimization  
(e.g. cvxpy, gams, ...)  
Artificial intelligence  
(e.g. tensorflow, ...)  
Docker

### Languages

Dutch  
English  
Swedish  
French

## CERTIFICATES

Geospatial Analytics and Big Data;  
Mathematical, Statistical and Computational Foundations for Data Scientists;  
Introduction and Fundamentals of Data Science.

## WORK HISTORY

📅 April 2021 -	MINES Paris, Sophia Antipolis	Postdoctoral researcher
📅 02/2021 - 03/2021	Uppsala University, Uppsala	Researcher
📅 11/2019 - 03/2021	Greenlytics, Stockholm	External consultant
📅 07/2016 - 01/2021	Uppsala University, Uppsala	PhD candidate

## EDUCATION

📅 2021	Uppsala University, Uppsala	Doctor of Philosophy
📅 2016	Technical University, Delft	Master of Science
📅 2013	Technical University, Delft	Bachelor of Science

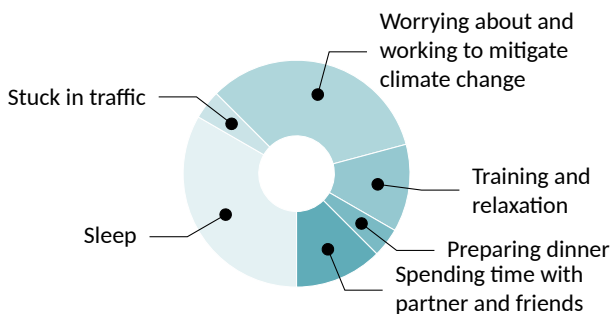
## ACHIEVEMENTS, HONOURS AND AWARDS

- 🏆 Helped PI receive funding by writing deliverable for a European Union Horizon 2020 project (No. 864337).
- 🏆 Helped PI secure €410,000 funding for a project of the Swedish Energy Agency.
- 🏆 Derived irradiance maps of Sweden from satellite imagery using state-of-the-art algorithms.
- 🏆 Best Paper Award (IEEE Industrial Electronics Society, 2019).
- 🏆 Finalist in Best Student Paper Award Competition (IEEE PVSC, 2018).
- 🏆 Master thesis prize, 2nd place (QPark, 2017).

## GENERAL SKILLS

Problem solving	Critical thinking	Active listening	Collaboration
Written communication	Public speaking	Adaptability	Organization


## A DAY IN THE LIFE OF



# LIST OF SELECTED PUBLICATIONS

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## Generalizing Renewable Energy Forecasting Using Automatic Feature Selection and Combination


 **D. van der Meer**, S. Camal, G. Kariniotakis

 2022  17th International Conference on Probabilistic Methods Applied to Power Systems (PMAPS)

 [Link](#)


## Data-Enabled Reactive Power Control of Distributed Energy Resources via a Copula Estimation of Distribution Algorithm



 **D. van der Meer**, H. Valizadeh Haghi, J. Kleissl, J. Widén

 2022  17th International Conference on Probabilistic Methods Applied to Power Systems (PMAPS)

 [Link](#)

## A review of solar forecasting, its dependence on atmospheric sciences and implications for grid integration: Towards carbon neutrality



 D. Yang, W. Wanga, C.A. Gueymard, T. Hong, J. Kleissl, J. Huang, M. J.Perez, R. Perez, J. M. Bright, X. Xia, **D. van der Meer**, I. Marius Peters

 2022  Renewable and Sustainable Energy Reviews, Vol. 161, id. 112348

 [Link](#)


## A benchmark for multivariate probabilistic solar irradiance forecasts



 **D. van der Meer**

 2021  Solar Energy, Vol. 225, pp. 286-287

 [Link](#)


## Post-processing in solar forecasting: Ten overarching thinking tools



 D. Yang, **D. van der Meer**

 2021  Renewable and Sustainable Energy Reviews, Vol. 140, id. 110735

 [Link](#)


## An alternative optimal strategy for stochastic model predictive control of a residential battery energy management system with solar photovoltaic


 **D. van der Meer**, G. C. Wang, J. Munkhammar

 2021  Applied Energy, Vol. 283, id. 116289

 [Link](#)


## Very short term load forecasting of residential electricity consumption using the Markov-chain mixture distribution (MCM) model



 J. Munkhammar, **D. van der Meer**, J. Widén

 2021  Applied Energy, Vol. 282, id. 116180

 [Link](#)


## Verification of deterministic solar forecasts



 D. Yang, S. Alessandrini, J. Antonanzas, F. Antonanzas-Torres, V. Badescu, H. G. Beyer, R. Blaga, J. Boland, J. M. Bright, C. F. M. Coimbra, M. David, A. Frimane, C. A. Gueymard, T. Hong, M. J. Kay, S. Killinger, J. Kleissl, P. Lauret, E. Lorenz, **D. van der Meer**, M. Paulescu, R. Perez, O. Perpiñán-Lamigueiro, I. Marius Peters, G. Reikard, D. Renné, Y.-M. Saint-Drenan, Y. Shuai, R. Urraca, H. Verbois, F. Vignola, C. Voyant, J. Zhang

 2020  Solar Energy, Vol. 210, pp. 20-37

 [Link](#)

## Clear-sky index space-time trajectories from probabilistic solar forecasts: Comparing promising copulas

 **D. van der Meer**, D. Yang, J. Widén, J. Munkhammar

 2020  Journal of Renewable and Sustainable Energy, Vol. 12, id. 026102

 [Link](#)

## Review on probabilistic forecasting of photovoltaic power production and electricity consumption



 **D. van der Meer**, J. Widén, J. Munkhammar

 2018  Renewable and Sustainable Energy Reviews, Vol. 81, pp. 1484-1512

 [Link](#)

## Energy Management System With PV Power Forecast to Optimally Charge EVs at the Workplace

 **D. van der Meer**, G. R. Chandra Mouli, G. Morales-España, L. Ramirez Elizondo, P. Bauer

 2018  IEEE Transactions on Industrial Informatics, Vol. 14, pp. 311-320

 [Link](#)