

Dr. ir. D. W. van der Meer

Energy meteorologist and data scientist with 8+ years of experience. Passionate about contributing to mitigating climate change through technological innovation in the energy sector.

CONTACT

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🌐 Dennis van der Meer
🆔 0000-0002-9473-4536
📄 Google Scholar publication list

SKILLS

Programming

Python
R
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

📅 05/2023 -	Senior quantitative analyst
📍 Ørsted, Copenhagen	
📅 04/2021 - 03/2023	Postdoctoral researcher
📍 MINES Paris, Sophia Antipolis	
📅 02/2021 - 03/2021	Researcher
📍 Uppsala University, Uppsala	
📅 11/2019 - 03/2021	External consultant
📍 Greenlytics, Stockholm	
📅 07/2016 - 01/2021	PhD candidate
📍 Uppsala University, Uppsala	

EDUCATION

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

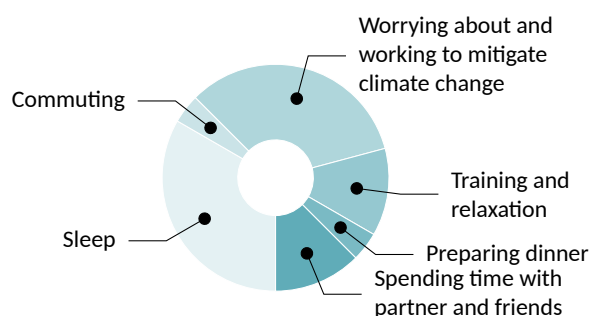
ACHIEVEMENTS, HONOURS AND AWARDS

- 🏆 Helped reduce balancing costs by more than 10 million DKK through improved probabilistic forecasting.
- 🏆 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 MANUSCRIPTS


CRPS-based online learning for nonlinear probabilistic forecast combination



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

 2024  International Journal of Forecasting

 [Link](#)

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](#)