

CURRICULUM VITAE

Name: Marit Irene Kvittem
Email: marit.kvittem@ntnu.no

EDUCATION:

2009 – 2014 Norwegian University of Science and Technology (NTNU), Trondheim,
Norway, Marine Technology (Doctor of Engineering)
2001 – 2007 Norwegian University of Science and Technology (NTNU), Trondheim,
Norway, Structural Engineering (Master of Science)

WORK EXPERIENCE:

2025 – Norwegian University of Science and Technology (NTNU), Trondheim
Associate Professor of Marine Structures, Department of Marine Technology
2017 – 2025 SINTEF Ocean, Trondheim
Senior Research Scientist, Marine Structures
2015 – 2022 Norwegian University of Life Sciences (NMBU), Ås
Adjunct Associate Professor (20% position), teaching finite element method
and ANSYS, supervising master students
2014 – 2017 DNV GL, Høvik
Senior Engineer, Renewables Advisory, hydrodynamic, aerodynamic and
structural aspects of floating wind turbines, third party verification, standard
development and risk analysis
2009 – 2014 Norwegian University of Science and Technology (NTNU), Trondheim
PhD candidate, coupled dynamic analysis of floating wind turbines, fatigue and
design loads
2007 – 2009 Reinertsen AS, Trondheim
Pipeline engineer, design of subsea pipelines for oil and gas
2006 Rambøll, Trondheim
Summer internship, structural design, concrete, steel and wood
2003 – 2006 Norwegian University of Science and Technology (NTNU), Trondheim
Student assistant in chemistry, calculus, stochastic loading and wood structures
2002 – 2005 Trondheim bydrift
Summer internship, pollution detection in wastewater systems

SELECTED RECENT PROJECT EXPERIENCE:

2024 – 2025 SFI Blues/IPN shared mooring systems for floating wind /Deputy Centre
Manager and Work Package Manager for WP1/NFR+industry
2021 – 2023 HoneyMooring/IPN shared mooring systems for floating wind /Project
Manager for Sintef Ocean Scope/NFR+industry
2021 – 2025 ImproveFLOW/IPN analysis software for floating wind /WP
leader/NFR+industry
2019 – 2023 WindMoor/KPN mooring systems for floating wind /WP leader/NFR+industry
2019 – 2022 LifeMoor/KPN on mooring chain/WP leader/NFR + industry
2018 – 2019 Large Floating Coastal structures/KPN on floating bridges/project
member/NFR+industry

2016 – 2017 JIP developing a recommended practice for coupled analysis of floating wind turbines (DNVGL-RP-286)/team member/Industry JIP

OTHER:

2023 PhD Evaluation Committee at University of Agder – 2nd opponent
2015 – Peer review for various journals and conferences
2011 EAWC 6th PhD seminar – Organization committee member
2010– 2014 Think Tank Grønn Fase, initiated by Norwegian Department of Energy - member

LANGUAGES:

Norwegian – mother tongue, English – fluent, French, Spanish and Afrikaans – basic.

TECHNICAL PUBLICATIONS:

2024 M. I. Kvittem, L. V. Eliassen, B. Panjwani, T. Levick, and M. Thomas.
Influence of Platform Dynamic Yaw Motions on Wake, and Subsequent Impacts on Downwind Turbine Power and Loads.
Journal of Physics: Conference Series 2745, no. 1 (April 2024): 012007.
<https://doi.org/10.1088/1742-6596/2745/1/012007>.

2023 M. I. Kvittem, A. G. Fredriksen, C. S. Souza and F.-C. W. Hanssen
Rational Simplification of High Fidelity Wind Turbine Models Used for Mooring Analysis.
Journal of Physics: Conference Series 2626, no. 1 (October 2023): 012049
<https://doi.org/10.1115/OMAE2023-102645>

2023 T. Viuff, S. H. Sørnum and M. I. Kvittem
Modelling of Fibre Rope Mooring for a Floating Offshore Wind Turbine.
ASME 2023 42nd International Conference on Ocean, Offshore and Arctic Engineering
<https://doi.org/10.1115/OMAE2023-102645>

2022 M. Kvittem and L. K. Bergmann.
The Effect of Mean Tension on Fatigue of Mooring Chain for a 12 MW Semi-Submersible Wind Turbine.
ASME 2022 4th International Offshore Wind Technical Conference
<https://doi.org/10.1115/IOWTC2022-94183>

2021 C. E. S. Souza, N. Fonseca, and M. I. Kvittem.
Sensitivity of a Floating Bridge Global Responses to Different Wave Drift Force Models.
ASME 2021 40th International Conference on Ocean, Offshore and Arctic Engineering
<https://doi.org/10.1115/OMAE2021-62777>

2020 J. Dai, B. J. Leira, T. Moan and M. I. Kvittem.
Inhomogeneous wave load effects on a long, straight and side-anchored floating pontoon bridge.
Marine Structures, 72, 102763.
<https://doi.org/10.1016/j.marstruc.2020.102763>

2019 B. Panjwani, M. Kvittem, L. Eliassen, H. Ormberg and M. Godvik.
Effect of Wake Meandering on Aeroelastic Response of a Wind Turbine Placed in a Park.
Journal of Physics: Conference Series 1356, no. 1 (October 2019): 012039.
<https://doi.org/10.1088/1742-6596/1356/1/012039>.

2018 M. Kvittem, P. A. Berthelsen, L. Eliassen, M. Thys

- Calibration of hydrodynamic coefficients for a semi-submersible 10 MW wind turbine.
ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering
<https://doi.org/10.1115/OMAE2018-77826>
- 2016 A. Steinert, S. Ehlers, M. Kvittem, D. Merino and M. Ebbesen
Cost Assessment for a Semi-submersible Floating Wind Turbine with Respect to the Hydrodynamic Response and Tower Base Bending Moments Using Particle Swarm Optimisation
ISOPE 2105 26th International Ocean and Polar Engineering Conference
<https://onepetro.org/ISOPEIOPEC/proceedings-abstract/ISOPE16/All-ISOPE16/17000>
- 2015 L. Vita, G. Ramachandran, A. Krieger, M. Kvittem, D. Merino, J. Cross-Whiter, B. Ackers
Comparison of numerical models and verification against experimental data, using Pelastar TLP concept.
ASME 2015 34th International Conference on Ocean, Offshore and Arctic Engineering
<https://doi.org/10.1115/OMAE2015-41874>
- 2015 M. Kvittem, T. Moan
Time Domain Analysis Procedures for Fatigue Assessment of a Semi-submersible Wind Turbine
Marine Structures 40: 38-59
<https://doi.org/10.1016/j.marstruc.2014.10.009>
- 2015 M. Kvittem, T. Moan
Frequency versus Time Domain Fatigue Analysis of a Semisubmersible Wind Turbine Tower
Journal of Offshore Mechanics and Arctic Engineering 137.1, 011901
<https://doi.org/10.1115/1.4028340>
- 2015 A. R. Nejad, E. E. Bachynski, M. I. Kvittem, C. Luan, Z. Gao, and T. Moan.
Stochastic Dynamic Load Effect and Fatigue Damage Analysis of Drivetrains in Land-Based and TLP, Spar and Semi-Submersible Floating Wind Turbines. Marine Structures 42 (July 1, 2015): 137–53.
<https://doi.org/10.1016/j.marstruc.2015.03.006>
- 2014 E. Bachynski, M. Kvittem, C. Luan, T. Moan
Wind-Wave Misalignment Effects on Floating Wind Turbines: Motions and Tower Load Effects
Journal of Offshore Mechanics and Arctic Engineering 136.4, 041902
<https://doi.org/10.1115/1.4028028>
- 2013 E. Bachynski, M. Etemaddar, M. Kvittem, C. Luan, T. Moan
Dynamic analysis of floating wind turbines during pitch actuator fault, grid loss, and shutdown
Elsevier Energy Procedia, Vol 35, 210-222
<https://doi.org/10.1016/j.egypro.2013.07.174>
- 2012 M. Kvittem, E. Bachynski, T. Moan
Effects of Hydrodynamic Modelling in Fully Coupled Simulations of a Semi-Submersible Wind Turbine
Elsevier Energy Procedia Vol 24, 351 – 362
<https://doi.org/10.1016/j.egypro.2012.06.118>
- 2012 M. Kvittem, T. Moan
Effect of Mooring Line Modelling on Motions and Structural Fatigue Damage for a Semisubmersible Wind Turbine
ISOPE2012-TPC-0699

- 2011 M. Kvitem, T. Moan, Z. Gao, C. Luan
Short-Term Fatigue Analysis of Semi-Submersible Wind Turbine Tower
OMAE2011-50092
<https://doi.org/10.1115/OMAE2011-50092>
- 2009 R. Igland, M. Kvitem, D. Vysochinsky
Expansion Design Philosophy to Prevent Buckle Walking at Very Uneven
Seabed
OMAE2009-79363
<https://doi.org/10.1115/OMAE2009-79363>