Raphaël E. G. Mounet

2450 Copenhagen, Denmark · Tel: (+45) 5264 5994
regmo@dtu.dk · **ORCID: 0000-0001-8770-2061**
Born in 1996 · French citizenship

EDUCATION

- ***2020 – Graduation in January 2024***
  Double Doctorate Degree in Maritime Engineering, TECHNICAL UNIVERSITY OF DENMARK (DTU CONSTRUCT) and NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY (NTNU).
  "Sea state estimation based on measurements from multiple observation platforms"

- ***2018 – Graduated August 2020***
  Master's Degree in Mechanical Engineering, TECHNICAL UNIVERSITY OF DENMARK (DTU).
  Specialization in Maritime engineering and Applied fluid mechanics

- ***2018 – Graduated August 2020***
  Engineering Degree, ECOLE CENTRALE DE LYON (FRANCE), DOUBLE DEGREE WITH DTU.

- ***2016 – Graduated November 2017***
  Bachelor's Degree in Engineering, ECOLE CENTRALE DE LYON (FRANCE).
  General engineering

- ***2014 – 2016***
  Intensive Foundation Degree, LYCEE DU PARC, LYON (FRANCE).

WORK EXPERIENCE

- ***January 2020 – August 2020***
  Master's Thesis Project, CADELER, COPENHAGEN (DENMARK).
  "Hydrodynamic loading on offshore wind installation vessels"

- ***September 2019 – May 2020***
  Teaching Assistant, TECHNICAL UNIVERSITY OF DENMARK.
  Assistance in the courses 'Marine Structures 1' and 'Knowledge-Based Entrepreneurship'

- ***May 2018 – August 2018***
  Mechanical Engineer Intern in R&D, VIBRATEC, ECULLY (FRANCE).
  Experimental characterization of the flow-induced vibrations (FIV) in industrial valves

TECHNICAL SKILLS

- **Programming**: Python, MATLAB, Excel
- **Modelling**: Star-CCM+, ANSYS Fluent, SWAN
- **Data acquisition & processing**: LMS Test.Lab
- **Other**: LaTeX, Word, PowerPoint, Git

LANGUAGES

- **French**: Native speaker
- **English**: Full professional proficiency
- **Spanish**: Professional working proficiency
- **Danish**: Limited working proficiency

LIST OF PUBLICATIONS

Journal papers

- Nielsen, U.D.; Bingham, H.B.; Brodtkorb, A.H.; Iseki, T.; Jensen, J.J.; Mittendorf, M.; Mounet, R.E.G.; Shao, Y.; Storhaug, G.; Sørensen, A.J.; Takami, T. (2023). *Estimating waves via measured ship responses*. Scientific Reports, 13, 14 p., 17342.

- Mounet, R.E.G.; Chen, J.; Nielsen, U.D.; Brodtkorb, A.H.; Pillai, A.C.; Ashton, I.G.C.; Steele, E.C.C. (2023). *Deriving spatial wave data from a network of buoys and ships*. Ocean Engineering, 281, 19 p., 114892.

- Nielsen, U.D.; Mounet, R.E.G.; Brodtkorb, A.H. (2022). *Parameterised transfer functions with associated confidence bands*. Applied Ocean Research, 125, 16 p., 103250.

- Mounet, R.E.G.; Nielsen, U.D.; Brodtkorb, A.H.; Tannuri, E.A.; de Mello, P.C. (2022). *Simultaneous sea state estimation and transfer function tuning using a network of dynamically positioned ships*. Applied Ocean Research, 129, 19 p., 103367.

- Nielsen, U.D.; Mounet, R.E.G.; Brodtkorb, A.H. (2021). *Tuning of transfer functions for analysis of wave-ship interactions*. Marine Structures, 79, 21 p., 103029.

Conference papers

- Mounet, R.E.G.; Nielsen, U.D.; Brodtkorb, A.H. (2023). *Doppler Shift Approximation for Predicting the Wave-Induced Response of Advancing Vessels in Following Waves*. Proc. of the ASME 2023 42nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE), Melbourne, Australia. American Society of Mechanical Engineers Digital Collection.

- Mounet, R.E.G.; Nielsen, U.D.; Brodtkorb, A.H. (2022). *A Computationally Efficient Procedure for Tuning of Ship Transfer Functions*. Proc. of the 7th World Maritime Technology Conference (WMTC), Copenhagen, Denmark.