

# Curriculum Vitae – Sören Schenke

## PERSONAL INFORMATION

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Host institution: Delft University of Technology  
Faculty: Mechanical, Maritime and Materials Engineering  
Department: Maritime & Transportation Technology  
Mekelweg 2, 2628 CD Delft, The Netherlands

E-mail: s.schenke@tudelft.nl

Nationality: German

## EDUCATION AND RESEARCH

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October 2015 - present **PhD research at Delft University of Technology**

- Project: Predicting Dynamics of Cavitating Vortices and their Relation to Surface Erosion
- Numerical multiphase flow simulation and cavitation modeling
- Cavitation erosion risk assessment

October 2012 - August 2015 **Master of Science at Hamburg University of Technology**

- Programme: Naval Architecture and Ocean Engineering
- Master's thesis at DNV GL Hamburg, co-supervised by the institute of Fluid Dynamics and Ship Theory: Assessment of Propulsion Efficiency for Hull-Propeller Systems (coupling a RANS solver with a BEM)
- Erasmus semester at Delft University of Technology (February - July 2014)

October 2008 - July 2012 **Bachelor of Science at Hamburg University of Technology**

- Programme: Naval Architecture
- Bachelor's thesis at the institute of Ship Structural Design and Analysis: Optimizing a Method to Predict the Forces and Moments due to Groundings

## FURTHER EXPERIENCE

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October - December 2014  
July - September 2015 **Internship at DNV GL Hamburg**

DNV GL SE Hamburg, Brooktorkai 18, 20457 Hamburg, Germany

- Worked at the department of Fluid Engineering
- Conducted case studies to compare characteristics and wake fields resulting from different propeller panel codes and RANS solvers
- Programmed converters for geometrical propeller description and meshing
- Automated determination of ship operating points based on a coupled RANS-BEM simulation

October 2012 - May 2013 **Research assistant at Hamburg University of Technology**

TUHH, Institute M-8, Am Schwarzenberg-Campus 4 C, 21073 Hamburg, Germany

- Worked at the Institute of Fluid Dynamics and Ship Theory
- Developed a tool for automated parameter studies with a propeller panel code