

Yaolin Ge

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PERSONAL INFORMATION

Date of Birth: October 20, 1996

Place of Birth: Shaanxi, China

Citizenship: Chinese

Gender: Male

EDUCATION

Aug. 2019 – Present	KTH Royal Institute of Technology, Stockholm, Sweden M.S. Maritime Engineering (Small Craft Design)
Aug. 2018 – Jun. 2019	Norwegian University of Science and Technology, Trondheim, Norway G.P.A. 3.93/4.00 M.S. Marine Technology (Ocean Structure)
Sept. 2017 – Jan. 2018	University of Strathclyde, Glasgow, United Kingdom G.P.A. 3.85/4.00 B.S. Naval Architecture & Ocean and Marine Engineering
Sept. 2014 – Jun. 2018	Jiangsu University of Science and Technology, Zhenjiang, China G.P.A. 3.89/4.00 B.S. Naval Architecture & Ocean Engineering

PROJECT EXPERIENCE

Jan. 2019 – Jun. 2019	Project on numerical analysis of a Wageningen B-screw series propeller TMR4220 Naval Hydrodynamics, NTNU, Trondheim <ul style="list-style-type: none">Analysed the propeller with induction-factor-enhanced lifting line methodInvestigated rake, skew and hub effects on the propeller bladeConducted an experimental testing in the towing tank at MARINTEK Supervisors: Kourosh Koushan, Professor
Aug. 2018 – Dec. 2018	Project on dynamic & static analysis of marine structures TMR4305 Advanced Analysis of Marine Structures, NTNU, Trondheim <ul style="list-style-type: none">Developed the dynamic response model for a marine riser subjected to waves by use of mode superposition method and analysed the drag forces in both time and frequency domainApplied static condensation & master-slave techniques for reduction of number of degrees of freedoms and evaluated the riser performance using frequency response methodConducted ABAQUS analysis for an elastic-plastic jacket structure and a stiffened plate and studied the linear buckling analysis and nonlinear ultimate strength analysis Supervisor: Svein Sævik, Professor; Erin Bachynski, Associate Professor
Sept. 2018 – Dec. 2018	Project on local structural design of the cruise ship balcony TMR4320 Simulation-Based Design, NTNU, Trondheim <ul style="list-style-type: none">Developed an initial design concept and assessed the principle dimensions, stress distribution & deflectionConducted the FEA analysis under multiple loading conditionsEstablished a parametric model and optimised the model using PSO codes out of minimum weight Supervisor: Ekaterina Kim, Associate Professor

Jan. 2018 – Jun. 2018

Project on the added mass effect of VIV for flexible risers

Bachelor's project, Jiangsu University of Science and Technology, Zhenjiang

- Studied the VIV phenomenon and physics behind VIV and summarised the current research model and developed the time-domain VIV model for low mass ratio system considering added mass effect
- Conducted the sensitivity analysis for different top tension force, current velocity as well as mass ratio working conditions

Supervisor: ZHOU Hong, Professor; WANG Kunpeng, Associate Professor

PROFESSIONAL QUALIFICATIONS

Personal Skills:

FEA analysis using Abaqus & ANSYS APDL; Programming language with C++, Python & MATLAB; Foil analysis using XFOIL; CFD analysis using Star-CCM+; CAD modelling with Solidworks/AutoCAD; Simulation with Simlink (Simevents); 3D FDM printing; Microsoft Office; Latex

Languages:

English (fluent)

Chinese (native)

AWARDS

2019	Intel® Edge AI Scholarship, Intel
2019	Best Popular Prize, AI + Art in Robot Dancing Competition, PKU
2017	First Prize, Academic Competition in Mechanics Knowledge, JUST
2016 – 2017	National Scholarship, MOE
2015	Honourable Mention, Xuediao Structural Innovative Design Contest, JUST
2014	First Prize, Diesel Engine Assembly & Disassembly Contest, SIYANG

PROFESSIONAL MEMBERSHIPS

The Royal Institute of Naval Architects (RINA)

Kongl. Sjöfartssällskapet

EXTRA-CURRICULAR

Aug. 2019 – Present	Maribot Vane 2.0 Design Project KTH & SMARC (Swedish Maritime and Robotic Center), Stockholm, Sweden <ul style="list-style-type: none">• Designed and built the next Maribot Vane, an autonomous sailing vessel
Jul. 2019 – Aug. 2019	Summer campus student Peking University, Beijing, China <ul style="list-style-type: none">• Applied deeplearning algorithm to achieve the motion capture activities and applied and programmed Yanshee Robot to dance following human motions
Oct. 2014 – Jun. 2018	Team Member Student Volunteer Association, Zhenjiang, China <ul style="list-style-type: none">• Participated in local and on-campus volunteering activities regularly

REFEREES:

Kourosh Koushan Professor	Department of Marine Technology, NTNU kourosh.koushan@ntnu.no +47 41105297
Tahsin Tezdogan Senior Lecturer	Department of NAOME, University of Strathclyde tahsin.tezdogan@strath.ac.uk +44 (0)141 548 4532
ZHOU Hong Professor	Department of Naval Architecture and Ocean Engineering, JUST zjcyzh@163.com +86 1365 6136 398

INTERESTS

Running, bicycling, swimming, Taekwondo, cross-country skiing