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
- Analysed the propeller with induction-factor-enhanced lifting line method
- Investigated rake, skew and hub effects on the propeller blade
- Conducted the 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
- 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 domain
- Applied static condensation & master-slave techniques for reduction of number of degrees of freedoms and evaluated the riser performance using frequency response method
- Conducted 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
- Developed an initial design concept and assessed the principle dimensions, stress distribution & deflection
- Conducted the FEA analysis under multiple loading conditions
- Established the 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** |
| | B.S. Degree project, Jiangsu University of Science and Technology, Zhenjiang |

- Studied the VIV phenomenon and physics behind VIV and summarised the current research and applied the semi-empirical TD model considering added mass effect for the low mass ratio system (cylinders & SCRs)
- Conducted the sensitivity analysis for different top tension force, current velocity as well as mass ratio working conditions to verify the model

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

PROFESSIONAL QUALIFICATIONS

Personal Skills:

Programming language with C++, Python & MATLAB; FEA analysis using Abaqus & ANSYS APDL; CAD modelling with Solidworks/AutoCAD; Foil analysis using XFoil; CFD analysis using Star-CCM+; 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

PROFESSINOAL MEMBERSHIPS

The Royal Institute of Naval Architects (RINA)
Kongl. Skeppssällskapet

EXTRA-CURRICULAR

| Aug. 2019 – Present | **Maribot Vane 2.0 Design Project** |
| | KTH & SMaRC (Swedish Maritime and Robotic Center), Stockholm, Sweden |

- Designed and built the next Maribot Vane, an autonomous sailing vessel

| Jul. 2019 – Aug. 2019 | **Summer campus student** |
| | Peking University, Beijing, China |

- Applied deep learning 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 |

- Participated in local and on-campus volunteering activities regularly

REFEREES:

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

INTERESTS

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