

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

Aug. 2018 – Jun. 2019

Norwegian University of Science and Technology, Trondheim, Norway
G.P.A. 3.93/4.00
M.S. Marine Technology

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

Aug. 2019 – present

Research on the Signal Processing of Underwater Beacons for AUVs
KTH & Swedish Maritime Robotics Centre (SMaRC), Stockholm, Sweden

- Upgraded the firmware of the sonar microcontroller
- Commissioning the sonar hardware setup environment
- Prepared to do site tests in both open air and underwater environments
- To Signal process returned echoes and set proper noise filter
- To implement on large projects such as LoLo

Supervisors: Peter Sigraay, Professor; Martin Ludvigsen, Professor

Aug. 2019 – Dec. 2019

Maribot Vane 2.0 Design Project

KTH & SMaRC (Swedish Maritime and Robotic Center), Stockholm, Sweden

- Designed and built the Maribot Vane 2.0, an autonomous sailing vessel
- Engineered and manufactured the glass fibre-made rudder
- Evaluated the mechanical behaviour under certain load conditions for most of 3D printed parts as well as parts made from composite materials
- Studied and assessed the performance of the components made from composite materials in terms of weight and strength

Supervisors: Jakob Kutteneuler, Professor; Stefan Hallström, Assoc. Professor

Jan. 2019 – Jun. 2019

Project on the acoustic sensing seabed survey of a virgin wreck site

The Applied Underwater Robotics Laboratory, Trondheim, Norway

- Prepared the seabed sensing survey equipment, such as LAUV Fridtjof with sensors like SSS, CTD profiler, DVL, GPS, Camera etc.
- Planned the appropriate preliminary underwater survey paths considering the bathymetry & topology of the seabed
- Conducted the field trip on board R/V Gunnerus to collect data
- Post-processed and documented the acoustic images for further research

Supervisor: Martin Ludvigsen, Professor

Jan. 2018 – Jun. 2018

Research on the dynamic response of flexible risers under VIV load

Bachelor's thesis, 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/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
2015	National Encouragement Scholarship, MOE
2014	First Prize, Diesel Engine Assembly & Disassembly Contest, SIYANG

PROFESSIONAL MEMBERSHIPS

The Royal Institute of Naval Architects (RINA)

Kongl. Skeppssällskapet

EXTRA-CURRICULAR

Jul. 2019 – Aug. 2019

Summer campus student

Peking University, Beijing, China

- Applied OpenPose algorithm to achieve the motion capture activities
- Applied the motion mapping tool to convert 2D motions to 3D skeleton ones
- Programmed Yanshee Robot to dance following human motions

Oct. 2014 – Jun. 2018

Team Leader

Student Volunteer Association, Zhenjiang, China

- Organised in local and on-campus volunteering activities regularly

REFEREES:

Mehdi Zadeh (Ph.D.)
Associate Professor

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ZHOU Hong
Professor

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INTERESTS

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