

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	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 Maribot Vane 2.0, an autonomous sailing vesselEvaluated the hydrodynamic behaviour under wave load conditionsStudied and assessed the performance of the components made from composite materials in terms of weight and strength
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 Supervisor: Kourosh Koushan, Professor
Jan. 2019 – Jun. 2019	Projects on Hydrodynamics of High-Speed Marine Vehicles Department of Marine Technology, NTNU, Trondheim <ul style="list-style-type: none">Conducted the numerical lifting line analysis for the lift and drag of T-foils and rudderAnalysed resistance, propulsion power and manoeuvrability for three types of high-speed marine craftsEvaluated other relevant hydrodynamic aspects for high-speed vehicles such as ventilation, cavitation, wave-induced motions and free-surface effects Supervisors: Sverre Steen, Eirik Bøckmann, Marilena Greco

Aug. 2017 – Jan. 2018

Project on the investigation of flow pattern on a circular cylinder

NM402 Theory and Practice of Marine CFD, Univ. of Strathclyde, Glasgow

- Studied the vortex shedding phenomenon and physics behind VIV and applied the time-domain VIV model for low mass ratio system
- Reviewed analysis methods such as finite volume method and finite difference method for necessary analysis of computational fluid dynamics
- Simulated the behaviour of the flow pattern for a rigid body circular cylinder under steady flow condition using Star-CCM+

Supervisor: Qing Xiao, Reader; Wendi Liu, Research Associate

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

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 Leader Student Volunteer Association, Zhenjiang, China <ul style="list-style-type: none">• Organised 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