**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

* Designed and built the Maribot Vane 2.0, an autonomous sailing vessel
* Evaluated the hydrodynamic behaviour under wave load conditions
* Studied 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

* Analysed the propeller with induction-factor-enhanced lifting line method
* Investigated rake, skew and hub effects on the propeller blade
* Conducted 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

* Conducted the numerical lifting line analysis for the lift and drag of T-foils and rudder
* Analysed resistance, propulsion power and manoeuvrability for three types of high-speed marine crafts
* Evaluated 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

**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 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

* Organised in local and on-campus volunteering activities regularly

**REFEREES:**

Kourosh Koushan Department of Marine Technology, NTNU

Professor [kourosh.koushan@ntnu.no](mailto:kourosh.koushan@ntnu.no) +47 41105297

Tahsin Tezdogan Department of NAOME, University of Strathclyde

Senior Lecturer [tahsin.tezdogan@strath.ac.uk](mailto:tahsin.tezdogan@strath.ac.uk) +44 (0)141 548 4532

ZHOU Hong Department of Naval Architecture and Ocean Engineering, JUST

Professor [zjcyzh@163.com](mailto:zjcyzh@163.com) +86 1365 6136 398

**INTERESTS**

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