**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**

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

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 in TD and FD
* Applied static condensation (concentrated mass) & master-slave (consistent mass) 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

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:**

Programming language with C/C++, Python & MATLAB; FEA analysis using Abaqus & ANSYS APDL; 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 Merit Student, MOE

2017 First Prize, Academic Competition in Mechanics Knowledge, JUST

2016 – 2017 National Scholarship, MOE

2016 Second Prize Scholarship, CSSC Huangpu Wenchong

2015 National Encouragement Scholarship, MOE

2015 Honourable Mention, Xuediao Structural Innovative Design Contest, JUST

2014 Honourable Mention, CMIH Simulation Model 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**

Jul. 2019 – Aug. 2019 **Project on computer vision for robotic perception**

Peking University, Beijing, China

* Applied OpenPose algorithm to achieve the motion capture activities
* Employed 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 local and on-campus volunteering activities regularly

Mar. 2017 – Apr. 2017 **Interpreter Intern**

IDP Education Ltd., Nanjing, China

* Organised the introduction events for university’s admission committee and expected applicants
* Interpreted and assisted applicants with communications with admission committees’ representatives

**REFEREES:**

Ivan Stenius Dept. of Aeronautics and Vehicle Engineering, KTH

Associate Professor [stenius@kth.se](mailto:stenius@kth.se) +46 70 288 82 63

Kourosh Koushan Department of Marine Technology, NTNU

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

Tahsin Tezdogan (Ph.D.) Dept. of NAOME, University of Strathclyde

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

**INTERESTS**

Sailing, running, bicycling, swimming, Taekwondo, cross-country skiing