**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 (Adviser Prof. Kuttenkeuler)**

**Thesis: 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 (Co-adviser Prof. Ludvigsen)**

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. 3.81/4.00**

**B.S. Naval Architecture & Ocean Engineering**

**RESEARCH EXPERIENCE**

Aug. 2019 – present **Project on the Hydrodynamic Manoeuvrability for AUVs**

KTH & Swedish Maritime Robotics Centre (SMaRC), Stockholm, Sweden

* Analysed the equations of motion for underwater vehicles
* Analysed all lift and drag components for the flap (tail foil) on the vehicles
* Determined total hydrodynamic load on the AUV
* Simulated the manoeuvring behaviour for the AUV
* Conducted the stability analysis for the AUV

Supervisors: Ivan Stenius, Associate Professor

Jan. 2019 – Jun. 2019 **Projects on Hydrodynamics of High-Speed Marine Vehicles**

Department of Marine Technology, NTNU,Trondheim, Norway

* 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

Supervisor: Sverre Steen, Eirik Bøckmann, Marilena Greco

Jan. 2019 – Jun. 2019 **Project on the design of a propeller using lifting line theory**

Department of Marine Technology, NTNU, Trondheim, Norway

* Investigated linear foil theory and propeller characteristics
* Applied numerical lifting line method to optimise the propeller design
* Conducted various experimental testing for the propeller at Marin Teknikk

Supervisor: Kourosh Koushan, Professor

**PROFESSIONAL QUALIFICATIONS**

**Personal Skills:**

Computational Fluid Dynamic Analysis using Star-CCM+; Programming language with C, C++, Python & MATLAB; CAD modelling with Solidworks/AutoCAD; Simulation with Simlink; 3D FDM printing; Microsoft Office; Latex

**Languages:**

English (fluent)

Chinese (native)

Norwegian (conversational)

**AWARDS**

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 – 2016 First Prize, Renmin Scholarship, MOE

2015 Honourable Mention, Xuediao Innovative Design Contest, JUST

2015 National Encouragement Scholarship, MOE

2015 Second Prize, Decelerator Assembly & Disassembly 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 **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

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

IDP Education Ltd., Nanjing, China

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

Oct. 2014 – Jun. 2018 **Team Member**

Student Volunteer Association, Zhenjiang, China

* Participated in local and on-campus volunteering activities regularly

**REFEREES:**

Kourosh Koushan (Ph.D.) Department of Marine Technology, NTNU

Professor [kourosh.koushan@ntnu.no](mailto:kourosh.koushan@ntnu.no) +47 73594501

Mehdi Zadeh (Ph.D.) Hybrid Power Systems Laboratory (HPS), NTNU

Associate Professor [mehdi.zadeh@ntnu.no](mailto:mehdi.zadeh@ntnu.no) +47 73413202

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**

Running, bicycling, swimming, fitness training, cross-country skiing