Yaolin Ge

Teknikringen 8, 11428, Stockholm, Sweden | +46 073 095 8626 | yaolin@kth.se

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	+46 70 288 82 63
Kourosh Koushan	Department of Marine Technology, NTNU	
Professor	kourosh.koushan@ntnu.no	+47 41105297
Tahsin Tezdogan (Ph.D.)	Dept. of NAOME, University of Strathclyde	
Senior Lecturer	tahsin.tezdogan@strath.ac.uk	+44 (0)141 548 4532

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