

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. Kutteneuler) Thesis: Signal Processing of Underwater Beacons for AUVs
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) Co-thesis: Signal Processing of Underwater Beacons for AUVs
Sept. 2017 – Jan. 2018	University of Strathclyde, Glasgow, United Kingdom G.P.A. 3.32/4.00 B.S. Naval Architecture & Marine, Ocean 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 Degree Project: Dynamic Analysis of Added Mass Effect on Slender Riser based on Semi-empirical Model (Supervisor: Prof. Kunpeng Wang)

RESEARCH EXPERIENCE

Aug. 2019 – present	Research on the Signal Processing System for Underwater Beacons KTH & Swedish Maritime Robotics Centre (SMaRC), Stockholm, Sweden <ul style="list-style-type: none">Participated regular meetings with researchers who work on the next generation AUV – LoLoSet up hardware simulation testing environment (i.e. sonar equipment & other electronics) and conducted literature review on signal processing fieldsDiagnosed the current sensing model, and learning to formulate an upgraded one Supervisors: Jakob Kutteneuler, Professor; Martin Ludvigsen, Professor
Apr. 2017 – Feb. 2018	Research on the Shipyard Material Management System based on the IoT Naval Architecture & Ocean Engineering Laboratory, JUST, Zhenjiang, China <ul style="list-style-type: none">Participated in literature review and field survey in local shipyardsTook main responsibility in preliminary and following tests on PDA, client program and network environmentUndergraduate Student Innovation Training Project Supervisor: Zhu Anqing, Senior Engineering

PROFESSIONAL QUALIFICATIONS

Personal Skills:

FEM analysis by ANSYS APDL, ANSYS Workbench, Abaqus; Programming language with C, C++, Python & MATLAB; CAD Modelling by AutoCAD, Solidworks; Microsoft Office; Latex; Adobe Photoshop & Illustrator; 3D FDM printing; XFoil; Origin; OpenCV; ROS

Languages:

English (fluent)

Chinese (native)

Norwegian (beginner)

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

PROFESSIONAL MEMBERSHIPS

The Royal Institute of Naval Architects

Kongl. Skeppssällskapet

EXTRA-CURRICULAR

Jul. 2019 – Aug. 2019

Research Assistant

Peking University, Beijing, China

- Applied OpenPose algorithm to achieve the motion capture activities
- Programmed Yanshee Robot to dance following human motions
- Developed the motion mapping tool to convert 2D motions to 3D ones

Mar. 2017 – Apr. 2017

Interpreter Intern

IDP Education Ltd., Nanjing, China

- Organised the introduction events for university's admission committee and expected applicants
- Acted as an interpreter among applicants and admission committees
- Prepared and presented useful information for applicants

Oct. 2014 – Jun. 2018

Team Member

Student Volunteer Association, Zhenjiang, China

- Participated in local and on-campus volunteering activities regularly

REFEREES:

Kunpeng Wang

Associated Professor

Jiangsu University of Science and Technology

wangkunpeng@just.edu.cn

INTERESTS

KTH Formula Students (2019 – present)

KTH Hyperloop (2019 – present)

World Taekwondo Federation (2015 - present)

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