

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. 2020 – present	Norwegian University of Science and Technology, Trondheim, Norway Ph.D. Mathematical Sciences
Aug. 2019 – Jun. 2020	KTH Royal Institute of Technology, Stockholm, Sweden G.P.A. 3.95/4.00 M.S. Information Technology and Computer Sciences
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

RESEARCH EXPERIENCE

Aug. 2020 – present	Research on the autonomous underwater sampling (Ph.D. Degree Project) NTNU & AURLab (NTNU) & UPorto, Norway & Portugal <ul style="list-style-type: none">Simulate the 3D path planning algorithm for the autonomous underwater vehicles to conduct sampling missionsConduct in-situ experiments to evaluate the algorithm Supervisors: Jo Eidsvik, Professor; Geir-Arne Fuglstad, Associate Professor
Jan. 2019 – Jun. 2019	Research on the acoustic sensing seabed survey of a virgin wreck site The Applied Underwater Robotics Laboratory, Trondheim, Norway <ul style="list-style-type: none">Studied the seabed sensing survey equipment, such as LAUV Fridtjøf with sensors like SSS (side-scan sonar), CTD profiler, DVL, GPS, Camera etc.Planned the appropriate preliminary underwater survey paths considering the bathymetry & topology of the seabed Supervisor: Martin Ludvigsen, Professor
Jan. 2019 – Jun. 2019	Project on the design and analysis of underwater robotics KTH & Swedish Maritime Robotics Centre (SMaRC), Stockholm, Sweden <ul style="list-style-type: none">Designed a new generation underwater robotics based on EelumeInvestigated the hydrodynamic performance of the designed vehicleConducted the manoeuvring simulation and hardware-in-the-loop testingDelivered the presentation to the clients including professors & fellows Supervisor: Ivan Stenius, Associate Professor

PROFESSIONAL QUALIFICATIONS

Personal Skills:

Programming language with C, C++, Python & MATLAB; Deep Learning framework with TensorFlow; Computer Vision with OpenCV; Robotics development with ROS; 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 - 2016	First Prize, Renmin Scholarship, MOE
2015	National Encouragement Scholarship, MOE

PROFESSIONAL MEMBERSHIPS

IEEE Youth Member

EXTRA-CURRICULAR

Jan. 2020 – Present

NanoDegree program in Sensor Fusion

Udacity, United States

- Participated the MOOCs web-based courses, seminars and discussions
- Studied common sensing systems including Lidar, Radar, Camera etc.
- Worked with simulators to merge all sensing data

Jul. 2019 – Aug. 2019

Summer campus program in Deep Learning

Peking University, Beijing, China

- Studied the deep learning principles and applied openpose algorithm
- Conducted the motion capture and mapped the 2D motion to 3D skeleton
- Programmed Yanshee Robot to dance following human motions

Oct. 2014 – Jun. 2018

Team Member

Student Volunteer Association, Zhenjiang, China

- Participated in local and on-campus volunteering activities regularly

REFEREES:

Jo Eidsvik (Ph.D.)

Professor

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Martin Ludvigsen (Ph.D.)

Professor

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Tahsin Tezdogan (Ph.D.)

Senior Lecturer

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INTERESTS

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