

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 missions• Conduct 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 Fridtjof 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 Eelume• Investigated the hydrodynamic performance of the designed vehicle• Conducted the manoeuvring simulation and hardware-in-the-loop testing• Delivered 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 <ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• Participated in local and on-campus volunteering activities regularly

REFEREES:

Jo Eidsvik (Ph.D.) Professor	Dept. of Mathematical Sciences, NTNU jo.eidsvik@ntnu.no	+47 73590153
Martin Ludvigsen (Ph.D.) Professor	Dept. of Marine Technology, NTNU martin.ludvigsen@ntnu.no	+47 91897272
Tahsin Tezdogan (Ph.D.) Senior Lecturer	Dept. of NAOME, University of Strathclyde tahsin.tezdogan@strath.ac.uk	+44 (0)141 548 4532

INTERESTS

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