

Norwegian University of Science and Technology  
Faculty of Engineering

# DIPLOMA

**Yaolin Ge**

born 20 October 1996

has 1 June 2020 been awarded the degree

**Master of Science in Maritime Engineering**

Programme of Study: Maritime Engineering

Study Track: Small Crafts

Thesis Title: Development of an underwater ruler using an AUV-deployed  
beacon and Matched filter CFAR detector

The diploma is issued 12 October 2020.

  
\_\_\_\_\_  
Dean of Faculty  
\_\_\_\_\_  
Faculty Officer



## DIPLOM

Kungliga Tekniska högskolan gör vederligt att

*Yaolin Ge*

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har avlagt examen och förklaras därav för

**TEKNOLOGIE MASTER**

Stockholm, 18 december 2020

SIGBRITT KARLSSON,  
Rektor

# Norwegian University of Science and Technology

## Transcript of records



Name: **Ge, Yaolin**

National identity: 201096 27578

Study programme: Mathematical Sciences

The student has completed the following examinations at Norwegian University of Science and Technology:

					<b>Grade <sup>1)</sup> distribution</b>				
<b>Course</b>		<b>Semester</b>	<b>Credits</b>	<b>Grade</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
<b>Other courses</b>									
IDT8000	Research Ethics	2020 autumn	2.5	Passed					
TMA4315	Generalized Linear Models	2020 autumn	7.5	A					
IØ8906	Research based innovation	2021 spring	2.5	Passed					
MA8004	Mathematical Sciences Seminar for PhD-students - mini	2021 spring	2.5	Passed					
MA8701	Advanced statistical methods in inference and learning	2021 spring	7.5	Passed					
MA8702	Advanced Computer Intensive Statistical Methods	2021 spring	7.5	Passed					
TMR4115	Design Methods	2018 autumn	7.5	B					
TMR4190	Finite Element Methods in Structural Analysis	2018 autumn	7.5	A					
TMR4305	Advanced Analysis of Marine Structures	2018 autumn	7.5	A					
TMR4320	Simulation-Based Design	2018 autumn	7.5	A					
TMR4120	Underwater Engineering, Basic Course	2019 spring	7.5	A					
TMR4217	Hydrodynamics for High-Speed Marine Vehicles	2019 spring	7.5	B					
TMR4220	Naval Hydrodynamics	2019 spring	7.5	A					
TMR4290	Marine Electric Power and Propulsion Systems	2019 spring	7.5	A					
NFUT0101	Norwegian for Foreigners 1	2020 autumn	15	B					
NFUT0203	Norwegian for Foreigners 2	2021 spring	15	A					
NFUT0301	Norwegian for Foreigners 3	2021 autumn	15	C					
<b>Total:</b>			<b>135.0</b>						

1) For an explanation of the grade distribution, see the last page.

# Norwegian University of Science and Technology

## Transcript of records



Name: **Ge, Yaolin**

National identity: 201096 27578

Study programme: Mathematical Sciences

### Credit system and grading

The academic year normally runs from mid-August to mid-June and lasts for 10 months. Courses are measured in "studiepoeng", considered equivalent to the European Credit Transfer System standard (ECTS credits). The full-time workload for one academic year is 1500 - 1800 hours of study / 60 "studiepoeng".

The Norwegian grading system consists of two grading scales: one scale with the grades pass or fail and one graded scale from A to E for pass and F for fail. The graded scale has the following qualitative descriptions:

<b>A</b>	Excellent	An excellent performance, clearly outstanding. The candidate demonstrates excellent judgement and a very high degree of independent thinking.
<b>B</b>	Very good	A very good performance. The candidate demonstrates sound judgement and a high degree of independent thinking.
<b>C</b>	Good	A good performance in most areas. The candidate demonstrates a reasonable degree of judgement and independent thinking in the most important areas.
<b>D</b>	Satisfactory	A satisfactory performance, but with significant shortcomings. The candidate demonstrates a limited degree of judgement and independent thinking.
<b>E</b>	Sufficient	A performance that meets the minimum criteria, but no more. The candidate demonstrates a very limited degree of judgement and independent thinking.
<b>F</b>	Fail	A performance that does not meet the minimum academic criteria. The candidate demonstrates an absence of both judgement and independent thinking.

The assessment is criterion referenced.

### Grade distribution

The distribution of grades is shown by the percentage for courses using the graded scale A – F. Fail (F) is not included in the distribution. All results from the last five years are included in the calculation. The distribution is also shown for courses that have been active for less than five years. There has to be at least 10 approved results during the period.



# Official Transcript of Records

Yaolin Ge  
19961020-5537

2020-09-22

Completed courses	Scope	Grade	Date	Note
<b>SD2709 Underwater Technology</b>	7.5 hp	A	2019-10-18	1
PRO1 Project	(7.5 hp)	A	2019-10-18	1
<b>DD2325 Applied Programming and Computer Science</b>	7.5 hp	A	2020-01-10	1
LAB1 Laboratory Work	(1.5 hp)	P	2019-12-18	2
LAB2 Laboratory Work	(1.5 hp)	P	2019-12-18	2
LAB3 Laboratory Work	(1.5 hp)	P	2019-12-18	2
TEN1 Examination	(3.0 hp)	A	2020-01-10	1
<b>EQ2300 Digital Signal Processing</b>	7.5 hp	C	2020-01-11	1
PRO1 Project Assignment	(1.0 hp)	P	2019-12-01	2
LAB1 Laboratory Work	(0.5 hp)	P	2019-12-11	2
TEN1 Examination	(6.0 hp)	C	2020-01-11	1
<b>SD2711 Small Craft Design</b>	10.0 hp	B	2020-01-14	1
PRO1 Project	(10.0 hp)	B	2020-01-14	1
<b>SD271X Degree Project in Naval Architecture, Second Cycle</b>	30.0 hp	P	2020-08-12	2
XUPP Examination Question	(30.0 hp)	P	2020-08-12	2

Credited education	Scope	Grade	Date	Note
Crediting based on: Marine Electric Power and Propulsion Systems <i>at Norwegian University of Science and Technology, Norway</i>	7,5 Credits			
Credited as: <b>Course within the programme</b>	7.5 hp		2020-08-17	
Crediting based on: Naval Hydrodynamics <i>at Norwegian University of Science and Technology, Norway</i>	7,5 Credits			
Credited as: <b>Course within the programme</b>	7.5 hp		2020-08-17	
Crediting based on: Design Methods	7,5 Credits			

Credited education	Scope	Grade	Date	Note
<i>at Norwegian University of Science and Technology, Norway</i>				
Credited as:				
<b>Course within the programme</b>	7.5 hp		2020-08-17	
Crediting based on:				
Finite Element Methods in Structural Analysis	7,5 Credits			
<i>at Norwegian University of Science and Technology, Norway</i>				
Credited as:				
<b>Course within the programme</b>	7.5 hp		2020-08-17	
Crediting based on:				
Advanced Analysis of Marine Structures	7,5 Credits			
<i>at Norwegian University of Science and Technology, Norway</i>				
Credited as:				
<b>Course within the programme</b>	7.5 hp		2020-08-17	
Crediting based on:				
Simulation-Based Design	7,5 Credits			
<i>at Norwegian University of Science and Technology, Norway</i>				
Credited as:				
<b>Course within the programme</b>	7.5 hp		2020-08-17	
Crediting based on:				
Underwater Engineering, Basic Course	7,5 Credits			
<i>at Norwegian University of Science and Technology, Norway</i>				
Credited as:				
<b>Course within the programme</b>	7.5 hp		2020-08-17	
Crediting based on:				
Hydrodynamics for High-Speed Marine Vehicles	7,5 Credits			
<i>at Norwegian University of Science and Technology, Norway</i>				
Credited as:				
<b>Course within the programme</b>	7.5 hp		2020-08-17	

60 credits (hp) represent a full academic year.

#### Notes

- 1 Grading scale: Excellent (A), Very Good (B), Good (C), Satisfactory (D), Sufficient (E)
- 2 Grading scale: Pass (P)

The above is an excerpt from the register of student records.



23 Feb 2018

To whom it may concern,

This is to certify that Mr Yaolin GE was registered, registration number: 201749363, as a full-time student at the Department of Naval Architecture, Ocean and Marine Engineering Department for the period of 11 Sept 2017- 15 Dec 2017. He has taken and passed the following modules:

Class	Description	Results	Credit
21452	FINITE ELEMENT ANALYSIS FOR MARINE STRUCTURES	82	10.0
NM402	THEORY AND PRACTICE OF MARINE CFD	75	10.0
NM404	SHIP STRUCTURAL DYNAMICS	91	10.0
NM423	SEAKEEPING AND MANOEUVRING	77	20.0
NM439	HIGH PERFORMANCE SAILING YACHTS	89	10.0
Credits Awarded for Session ACAD17/18			60.0

Yours sincerely



Peilin Zhou

Professor of Marine Engineering

Associate Head of Department  
Internationalisation and Recruitment





# Jiangsu University of Science and Technology Academic Transcript

Name: Ge Yaolin

Major: Naval Architecture and Ocean Engineering

Student No: 1440101210

No.	Titles of Courses	Semester	Credit	Hrs. /Wks.	Grade
1	Introduction to Naval Architecture and Ocean Engineering	2014-2015-1	1		B
2	College English 1	2014-2015-1	4		73
3	Advanced Mathematics B1	2014-2015-1	5.5		97
4	Military Skills Training	2014-2015-1	2		93
5	Military Theory	2014-2015-1	1		90
6	Training and Testing of Mandarin	2014-2015-1	2		Pass
7	CET4-710	2014-2015-1			485
8	Physical Education 1	2014-2015-1	1		96
9	General Physics Experiment I	2014-2015-1	1		B
10	Mental Healthy Education	2014-2015-1	1		B
11	Situation and Policy 1	2014-2015-1	0.5		B
12	Career Planning and Development	2014-2015-1	1		96
13	The Outline of the Modern Chinese History	2014-2015-1	2		82
14	College Computer Fundamentals	2014-2015-2	3		C
15	College Physics B1	2014-2015-2	6		95
16	College English 2	2014-2015-2	4		81
17	Advanced Mathematics B2	2014-2015-2	6.5		92
18	Introduction to Engineering	2014-2015-2	2		B
19	Engineering Graphics	2014-2015-2	2.5		91
20	Introduction to Mao Zedong Thought and Chinese Characteristic Socialism Theory System 1	2014-2015-2	3		88
21	The Art of Car Walking	2014-2015-2	2		A
22	Job Interview Image and Etiquette	2014-2015-2	1		89
23	Moral & Ethics & Introduction to Law	2014-2015-2	3		A
24	Physical Education 2	2014-2015-2	1		82
25	General Physics Experiment II	2014-2015-2	1.5		B
26	Modern Social Etiquette	2014-2015-2	2		B
27	Lecture & Eloquence	2014-2015-2	2		A
28	Entrepreneurial Basis	2015-2016-1	1.5		B
29	College Physics B2	2015-2016-1	2.5		86
30	College English 3	2015-2016-1	4		81
31	Computer Programming Language (VC++)	2015-2016-1	3.5		95
32	Theoretical Mechanics	2015-2016-1	4.5		74
33	Introduction to Principles of Marxist Philosophy	2015-2016-1	3		87
34	Introduction to Mao Zedong Thought and Chinese Characteristic Socialism Theory System 2	2015-2016-1	3		85
35	Dietary Nutrition Practice	2015-2016-1	2		89
36	Time Management and Operation	2015-2016-1	1		87
37	Physical Education 3	2015-2016-1	1		82
38	Linear Algebra	2015-2016-1	2		91
39	Situation and Policy 2	2015-2016-1	0.5		84
40	Mechanics of Materials	2015-2016-2	4		94
41	Basis of Ship CAD	2015-2016-2	1		A
42	Ship Structure	2015-2016-2	2		96
43	Ship Graphing	2015-2016-2	2.5		A
44	College English 4	2015-2016-2	4		81
45	Probability	2015-2016-2	2		85
46	Basic Training of Engineering Metalworking	2015-2016-2	2		B

Note: 1. The records are marked in five degree grading: Excellent (A=95), Good (B=85), Fair (C=75), Passing (D=65), Failed (E<=59).

2. There is two grades system in some test marks: Pass or Fail and Pass is 75.



# Jiangsu University of Science and Technology Academic Transcript

Name: Ge Yaolin

Major: Naval Architecture and Ocean Engineering

Student No: 1440101210

No.	Titles of Courses	Semester	Credit	Hrs./Wks.	Grade
47	Engineering Mechanics Test	2015-2016-2	1		C
48	Engineering Cognitive Practice and Companies Recognize Internship	2015-2016-2	1.5		A
49	Practice in Computer Programming(VC++)	2015-2016-2	1		A
50	Jiangsu Provincial College Computer Test (Band 2, Visual C++)	2015-2016-2			A
51	National Computer Rank Examination(Band 2) C++ Programming	2015-2016-2			A
52	Physical Education 4	2015-2016-2	1		87
53	Professional Frontier Lectures of Modern Shipbuilding Enterprises and Engineering	2015-2016-2	1		A
54	Online English Autonomous Learning	2015-2016-2	1		91
55	Shipbuilding Material and Welding	2016-2017-1	1		97
56	Ship Statics	2016-2017-1	2		95
57	Ship Fluid Mechanics	2016-2017-1	4.5		93
58	English for Naval Architecture and Ocean Engineering	2016-2017-1	2		99
59	Course Exercise of Ship Graphing	2016-2017-1	2		94
60	Electrotechnics and Electronics Technology	2016-2017-1	2.5		A
61	Elements of Ocean Engineering	2016-2017-1	2		90
62	Basis of Mechanical Designing	2016-2017-1	3		B
63	Course Design on Fundamentals of Machine Design	2016-2017-1	1		C
64	CET6-710	2016-2017-1			495
65	Situation and Policy 3	2016-2017-1	0.5		B
66	Situation and Policy Practice	2016-2017-1	1		B
67	Structural Mechanics for Ships	2016-2017-2	4		96
68	Ship Equipment and System	2016-2017-2	1		87
69	Manufacturing Technology of Naval Architecture and Ocean Structure	2016-2017-2	3		88
70	Ship Resistance and Propulsion	2016-2017-2	4		100
71	Ship Structure Strength	2016-2017-2	2		97
72	Career Guidance	2016-2017-2	0.5		B
73	Sports Speciality	2016-2017-2	0.5		80
74	Modern Shipbuilding Engineering	2016-2017-2	2		94
75	CAX Of Shipbuilding	2016-2017-2	1		A

Note: 1. The records are marked in five degree grading: Excellent (A=95), Good (B=85), Fair (C=75), Passing (D=65), Failed (E<=59).

2. There is two grades system in some test marks: Pass or Fail and Pass is 75.



DEEP  
LEARNING  
INSTITUTE

# CERTIFICATE OF COMPETENCY

This NVIDIA DLI Certificate has been awarded to

## Yaolin Ge

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for the successful completion of  
**Fundamentals of Accelerated  
Computing with CUDA Python**

A handwritten signature in purple ink that reads "Will Ramey".

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**Will Ramey**  
Senior Director, Developer Programs

April 20, 2022



5 Courses

Neural Networks and Deep Learning

Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization

Structuring Machine Learning Projects

Convolutional Neural Networks

Sequence Models



04/15/2020

**Yaolin Ge**

has successfully completed the online, non-credit Specialization

## Deep Learning

The Deep Learning Specialization is designed to prepare learners to participate in the development of cutting-edge AI technology, and to understand the capability, the challenges, and the consequences of the rise of deep learning. Through five interconnected courses, learners develop a profound knowledge of the hottest AI algorithms, mastering deep learning from its foundations (neural networks) to its industry applications (Computer Vision, Natural Language Processing, Speech Recognition, etc.).

Adjunct Professor  
Andrew Ng  
Computer Science

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:  
[coursera.org/verify/specialization/5GW84LB3N6FY](https://coursera.org/verify/specialization/5GW84LB3N6FY)