

# Degree certificate

Albert-Ludwigs-Universität Freiburg

UNI  
FREIBURG

Technische Fakultät

**Farooq Ahmed Zuberi**

born on December 1, 1990

completed the degree program

**Master of Science (M. Sc.)**

in

**Computer Science**

on April 4, 2017

with the final grade of

**excellent (1.4)**

and has earned 120 ECTS credits.

Master's Thesis: excellent (1.5)

Title: CloudSeg: Semantic Segmentation of 3D Point Clouds Using Deep Learning

Freiburg i. Br., May 22, 2017



Prof. Dr. Ulrich Egert

Chair of the Examination Committee



# Albert-Ludwigs-Universität Freiburg

Technische Fakultät

## Transcript of records

for

**Farooq Ahmed Zuberi**

born on December 1, 1990



**Degree program: Master of Science (M. Sc.), Computer Science, Major, 2011**

	Grade/Status	Credits	Remark
<b>Mandatory Modules M.Sc. Informatik (PO-Version 2011)</b>	1.4	70	SS 2017
Master Module	1.5	30	SS 2017
Master's Thesis Topic: CloudSeg: Semantic Segmentation of 3D Point Clouds Using Deep Learning	1.5	25	WS 2016/17
Presentation of the Master's Thesis	BE	5	SS 2017
Core field in Computer Science	1.7	6	SS 2015
Grundlagen der Künstliche Intelligenz / Foundations of Artificial Intelligence - Examination	1.7	6	SS 2015
Master project	1.0	16	WS 2015/16
Project	1.0	16	WS 2015/16
Laboratory	BE	6	WS 2014/15
Laboratory in the research field "Machine Learning"	TRE	6	WS 2014/15
Deepening in Computer Science	1.8	12	WS 2016/17
Maschinelles Lernen / Machine Learning - Examination	2.0	6	WS 2016/17
Systeminfrastruktur für Data Science / System Infrastructure for Data Science - Examination	1.7	6	WS 2014/15
<b>Elective Modules Master of Science in Computer Science</b>	1.2	50	SS 2016
Application Area Biology	1.2	18	SS 2016

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	Grade/Status	Credits	Remark
Computational Neuroscience	1.2	18	SS 2016
Computational Neuroscience- Modulteil 1	BE	4	SS 2016
Neuroscience - The Basics: Basic and Systems Neurobiology - Studienleistung	BE	4	SS 2016
Computational Neuroscience - Modulteil 2	1.0	7	SS 2016
Models of Neurons and Networks - Prüfung	1.0	7	SS 2016
Computational Neuroscience - Modulteil 3	BE	5	SS 2016
Simulation of Biological Neuronal Networks- Studienleistung	BE	5	SS 2016
Computational Neuroscience - Modulteil 4	2.0	2	SS 2016
Current Research Topics in Systems Neuroscience (S1)	2.0	2	SS 2016
Current Research Topics in Systems Neuroscience- Prüfung	2.0		SS 2016
Specialization in M.Sc. Computer Science PO-Version 2011	1.3	32	SS 2015
Kognitive technical Systems - Specialization	1.3	32	SS 2015
Seminar in the research field "Foundations of Artificial Intelligence"	2.0	4	SS 2015
Seminar in the research field "Social Robotics and Human- Robot Interaction"	0.0	4	SS 2015
Kognitive technical Systems - Specialization in Computer Science I	1.3	12	WS 2014/15
Handlungsplanung / Artificial Intelligence Planning - Examination	1.7	6	WS 2014/15

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	Grade/Status	Credits	Remark
Mensch-orientierte Robotik / Human-Oriented Robotics - Examination	1.0	6	WS 2014/15
Kognitive technical Systems - Specialization in Computer Science II	1.3	12	SS 2015
Einführung in die Mobile Robotik / Introduction to Mobile Robotics - Examination	1.3	6	SS 2015
Statistische Mustererkennung / Statistical Pattern Recognition - Examination	1.3	6	SS 2015

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born on December 1, 1990

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<b>Overall ECTS credits:</b>	120
<b>Final Grade for Degree Program:</b>	1.4
<b>Completion of Degree Program:</b>	April 4, 2017

Freiburg i. Br., May 22, 2017

  
Prof. Dr. Ulrich Egert

Chair of the Departmental Examination Committee



BE passed, TRE regular attendance confirmed



## Transcript of Records – Explanations

According to the Examination Regulations of the University of Freiburg for the Master's Program in "Computer Science" – Academic regulations 2011

### 1. Information's and abbreviations

„Grade/Status“	Note value:	Grading of the Modules/Examinations
	BE:	pass; Modules, which are credit-only and are graded as "BE" if successfully completed.
„ECTS-Points“	Point value:	The sum of the credit for the course examined is given in ECTS (European Credit Transfer and Accumulation System). ECTS-Points are awarded for each Module, which approximately correspond to the scope of the course in each case. 1 ECTS-Point stands for 30 working hours
„Grader“	Name:	The Examination Committee appoints the graders of an Examination/ a Module.
„Remark“	Accreditation:	A period of study completed at another university or other equivalent institute of tertiary education, which is acknowledged as being equivalent to this program.

### 2. Grading of Examinations/Modules and the Bachelor's Thesis

1.0/1,3	very good/ excellent	an excellent level of achievement
1.7/2.0/2.3	good	a level of achievement lying considerably above the average requirements
2.7/3.0/3.3	satisfactory	a level of achievement fulfilling the average requirements
3.7/4.0	sufficient	a level of achievement which, despite certain deficiencies, still fulfils the requirements

### 3. Calculation of the Module Grade

The module grade is build from the ECTS-point weighted average (weighted arithmetic mean) of the partial examinations.

### 4. AwardedFinal Grades

With an average of up to 1.5:	excellent/very good
With an average of 1.6 to 2.5:	good
With an average of 2.6 to 3.5:	satisfactory
With an average of 3.6 to 4.0:	sufficient

### 5. Overall assessment „with distinction“

If the grade for all the modules is 1.3 or better, the overall assessment of "with distinction" will be awarded.