# NATIONAL UNIVERSITY OF SINGAPORE



## This is to certify that

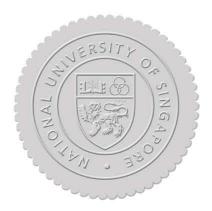
# TIAN FANG

having fulfilled the requirements prescribed by the University was conferred the degree of

# BACHELOR OF SCIENCE WITH MERIT

on

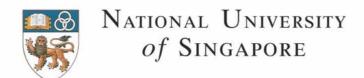
30 June 2023



Chair, Board of Trustees

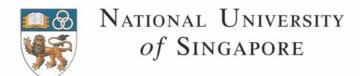
Mhh du the

President



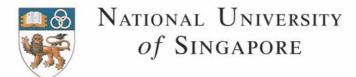
### OFFICIAL TRANSCRIPT

NAME:	TIAN FANG	STUDENT NO:	A0194568L		DATE OF BIRTH:	01/06/2001	DATE ISSUED:	: 02	/07/2023
DEGREE CO	ONFERRED:	BACHELOR OF COMPUTING (CO		ENCE) WITH	MODULE UTC1102G	JUNIOR SEMINAR: PROOF: WHAT'S TR	UTH GOT TO DO WITH	GRADE CS	CREDITS 4.00
CUMULATIV	VE AVERAGE POINT:	4.84			01011020	IT?		00	4.00
CUMULATIV	VE MODULAR CREDITS:	151.00			BACHELOR OF	COMPUTING (COMPUTER SCIENCE)			
ADMISSION	I DATE:	05/08/2019			CUMULATIVE A	VERAGE POINT : 5.00			
CONFERME	ENT DATE:	30/06/2023			ACADEMIC YE	AR 2019/2020 SEMESTER 2			
SPECIALISA	ATION:	MULTIMEDIA MODELLING			CS2030	PROGRAMMING METHODOLOGY II		Α	4.00
		MOZIMIZON (MOZIZIATO			CS2040S	DATA STRUCTURES AND ALGORITHMS		A	4.00
DEGREE CO	ONFERRED:	BACHELOR OF SCIENCE WITH I	MERIT		ES2660	COMMUNICATING IN THE INFORMATION		S	4.00
CUMULATIV	VE AVERAGE POINT:	4.91			GER1000	QUANTITATIVE REASONING		Α	4.00
					IS1103	IS INNOVATIONS IN ORGANISATIONS A	ND SOCIETY	S	4.00
	VE MODULAR CREDITS:				MA1101R	LINEAR ALGEBRA I		A+	4.00
ADMISSION	I DATE:	05/08/2019			UTS2109	ASIA NOW! THE ARCHAEOLOGY OF TH	E FUTURE CITY	S	4.00
CONFERME	ENT DATE:	30/06/2023		. 2004	UTW1001D	SELF, SOCIETY, AND THE DIGITAL TSUN	NAMI ERA	S	4.00
MAJOR:		APPLIED MATHEMATICS		EC 6340	BACHELOR OF	COMPUTING (COMPUTER SCIENCE)			
				是 国际是	CUMULATIVE A	VERAGE POINT : 5.00			
COMPLETE	D THE UNIVERSITY TOW	N COLLEGE PROGRAMME AT TH	HE TEMBUSU (	OLLEGE	1 Tours				
				A STATE OF THE STA	ACADEMIC YE	AR 2020/2021 SEMESTER 1			
COMPLETE	D A DOUBLE DEGREE P	ROGRAMME		1	CP2106	INDEPENDENT SOFTWARE DEVELOPM (ORBITAL)	IENT PROJECT	CS	4.00
				200	CS1010R	PROGRAMMING METHODOLOGY		A+	1.00
MODULE			<u>GRADE</u>	CREDITS	CS2101	EFFECTIVE COMMUNICATION FOR COLPROFESSIONALS	MPUTING	S	4.00
ACADEMIC	YEAR 2019/2020 SEMES	TER 1			CS2103T	SOFTWARE ENGINEERING		A-	4.00
CS1101S	PROGRAMMING METH	ODOLOGY	A+	4.00	CS3230	DESIGN AND ANALYSIS OF ALGORITHM	<b>IS</b>	A+	4.00
CS1231S	DISCRETE STRUCTURE	ES	Α	4.00	MA2104	MULTIVARIABLE CALCULUS		Α	4.00
ES1103	ENGLISH FOR ACADEM	MIC PURPOSES	S	4.00	MA2108	MATHEMATICAL ANALYSIS I		Α	4.00
MA1521	CALCULUS FOR COMP	UTING	A+	4.00	MA2202S	ALGEBRA I (S)		B+	5.00
					MA2213	NUMERICAL ANALYSIS I		A+	4.00



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NAME:	TIAN FANG	STUDENT NO:	A0194568L		DATE OF BIRTH	: 01/06/2001	DATE ISSUED:	02	/07/2023
MODULE	OFNIOR OFMINAR NEG		GRADE	CREDITS	MODULE		9	<u>GRADE</u>	CREDITS
UTC2107	SENIOR SEMINAR: NEG	GOTIATING IN A COMPLEX WORLD	S	4.00	BACHELOR OF	COMPUTING (COMPUTER SCIENCE)			
BACHELOR C	OF COMPUTING (COMPUTE	ER SCIENCE)			CUMULATIVE A	AVERAGE POINT : 4.81			
CUMULATIVE	AVERAGE POINT: 4.95				BACHELOR OF	SCIENCE			
BACHELOR C	OF SCIENCE					AVERAGE POINT : 4.92			
	AVERAGE POINT : 4.88								
					ACADEMIC YE	EAR 2021/2022 SEMESTER 2			
ACADEMIC Y	'EAR 2020/2021 SEMES	TER 2			CS2102	DATABASE SYSTEMS		Α	4.00
CS2100	COMPUTER ORGANISA	TION	Α	4.00	CS2102	INTRODUCTION TO COMPUTER NETWORKS		A	4.00
		ING ON MODERN APPLICATION			CS2106	INTRODUCTION TO OPERATING SYSTEMS		A-	4.00
CS3217	PLATFORMS		A-	5.00	CS3247	GAME DEVELOPMENT		A-	4.00
CS3243	INTRODUCTION TO ART	TIFICIAL INTELLIGENCE	A-	4.00	CS4248	NATURAL LANGUAGE PROCESSING		A+	4.00
MA2101	LINEAR ALGEBRA II		Α	4.00	ST2132	MATHEMATICAL STATISTICS		A-	4.00
MA2216	PROBABILITY		A+	4.00					
MA3252	LINEAR AND NETWORK	COPTIMISATION	A+	4.00	BACHELOR OF	COMPUTING (COMPUTER SCIENCE)			
UTW2001P	SCIENCE FICTION AND	EMPIRE	Α	4.00	CUMULATIVE	AVERAGE POINT : 4.79			
BACHELOR O	OF COMPUTING (COMPUTE	ER SCIENCE)		3 FINS	BACHELOR OF	SCIENCE			
	AVERAGE POINT : 4.88			1 3 6 1 8	The same of	AVERAGE POINT : 4.92			
				1	and I want				
BACHELOR C				1 3	ACADEMIC YE	EAR 2022/2023 SEMESTER 1			
	AVERAGE POINT : 4.91			The state of	CP4101	B.COMP. DISSERTATION		IP	12.00
DEAN'S LIST				1	CS4225	BIG DATA SYSTEMS FOR DATA SCIENCE		Α	4.00
ACADEMIC Y	EAR 2021/2022 SEMES	TER 1			MA4230	MATRIX COMPUTATION		A-	4.00
				A15 (134)	MA4270	DATA MODELLING AND COMPUTATION		Α	4.00
CS3216		ENGINEERING FOR DIGITAL MARKETS		5.00	20200 92 4				
CS3241	COMPUTER GRAPHICS		A+	4.00		F COMPUTING (COMPUTER SCIENCE)			
CS3244	MACHINE LEARNING		A+	4.00	CUMULATIVE /	AVERAGE POINT : 4.80			
CS4243	COMPUTER VISION AN	D PATTERN RECOGNITION	Α-	4.00	BACHELOR OF	SCIENCE			
MA3236	NON-LINEAR PROGRAM	MMING	A+	4.00					



### OFFICIAL TRANSCRIPT

**NAME:** TIAN FANG **STUDENT NO:** A0194568L **DATE OF BIRTH:** 01/06/2001 **DATE ISSUED:** 02/07/2023

MODULE GRADE CREDITS

**CUMULATIVE AVERAGE POINT: 4.90** 

ACADEMIC YEAR 2022/2023 SEMESTER 2

 CM1102
 CHEMISTRY - THE CENTRAL SCIENCE
 A
 4.00

 CP4101
 B.COMP. DISSERTATION
 A+
 12.00

 PC1101
 FRONTIERS OF PHYSICS
 A+
 4.00

 ST3131
 REGRESSION ANALYSIS
 A
 4.00

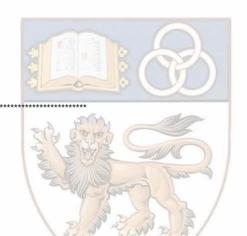
BACHELOR OF COMPUTING (COMPUTER SCIENCE)

**CUMULATIVE AVERAGE POINT: 4.84** 

**DEAN'S LIST** 

**BACHELOR OF SCIENCE** 

**CUMULATIVE AVERAGE POINT: 4.91** 



#### NATIONAL UNIVERSITY OF SINGAPORE (NUS)

Registrar's Office, University Hall (Lee Kong Chian Wing), #UHL-04-01, 21 Lower Kent Ridge Road, Singapore 119077

Telephone : (65) 65162304

Website https://www.nus.edu.sq/registrar

#### TRANSCRIPT INFORMATION

Applicable to undergraduate and graduate programmes (unless specified otherwise)

#### GRADE LEGEND

Grade	Grade Point	Additional Grading Options		
A+, A	5.00	S	Satisfactory	
A-	4.50	U	Unsatisfactory	
B+	4.00	CS	Completed (Satisfactory)	
В	3.50	CU	Completed (Unsatisfactory)	
B-	3.00	IC	Incomplete	
C+	2.50	IP	In Progress	
C	2.00	AUD	Audit	
D+	1.50	EXE	Exempted	
D	1.00	W	Withdrawn	
F	0.00	WU	Withdrawal from University	

### SCHOOL OF BUSINESS - MASTER'S DEGREE PROGRAMME MODULES

Grade	<b>Grade Point</b>
DT (Distinction)	5.00
M (Merit)	4.00
Pass	3.00
Fail	0.00

### FACULTY OF DENTISTRY / YONG LOO LIN SCHOOL OF MEDICINE DEGREE CLASSIFICATION - BACHELOR'S DEGREE PROGRAMME MODULES

Grade	Descriptor	Addi	tional Grading Options
A+	Distinction	DT	Distinction
Α		M	Merit
A-		P	Pass
B+		IC	Incomplete
В		IP	In Progress
B-		W	Withdrawn
C+		WU	Withdrawal from University
C			350
C F			

#### SUPPLEMENTARY EXAMINATION AND RE-EXAMINATION

Students who sit for Supplementary Examination or Re-examination (if applicable) are awarded the grade appropriate to the marks they obtain.

#### MEDIUM OF INSTRUCTION

The medium of instruction used in the University is English, unless specified otherwise.

#### **CUMULATIVE AVERAGE POINT (CAP)**

The Cumulative Average Point (CAP) was introduced for students admitted from the Academic Year (AY) 1998/1999 onwards to track the progress of students under the Modular System. It is the weighted average grade point of all modules taken by the student.

#### MODULAR CREDIT (MC)

A modular credit (MC) is a unit of the effort, stated in terms of time, expected of a typical student in managing his/her workload. 1 MC is equivalent to 2.5 hours of study and preparation per week. Thus, a 4-MC module would require 10 hours of work a week, including lectures, tutorials, laboratory sessions, assignments, and independent or group study, over 13 Instructional Weeks in a semester.

#### GRADE-FREE SCHEME (GFS)

The Grade-free Scheme (GFS), in the form of 32 MCs of Satisfactory/ Unsatisfactory (S/U) option, was introduced for undergraduate students admitted from AY2014/2015 onwards, to provide a supportive and enabling environment for them to make a successful transition into the academic and social aspects of university life.

It was enhanced from a grade-free first semester to a grade-free first year for undergraduate students admitted from AY2016/2017 onwards.

At the end of a semester, students may choose to retain the letter grade or to exercise the S/U option on a module, in which case the letter grade will not be shown on the transcript nor computed towards the CAP. An 'S' grade is assigned if students receive a C grade or above while a 'U' grade is assigned if the grade obtained is D+, D or F. Students will receive credits towards the degree only if they attain an 'S' grade.

#### LEAVE OF ABSENCE

Only leave of absence of one semester or longer is recorded in the transcript.

The criteria for degree classification applicable to students admitted from AY2012/2013 onwards are as follows:

Honours Degree Classification (i)	Criteria
Honours (Highest Distinction)	CAP 4.50 and above (ii)
Honours (Distinction)	CAP 4.00 - 4.49
Honours (Merit)	CAP 3.50 - 3.99
Honours	CAP 3.00 - 3.49
Pass	CAP 2.00 - 2.99
Bachelor's Degree Classification (iii)	Criteria
Pass with Merit	CAP 3.00 and above
Pass	CAP 2.00 - 2.99

- (i) This refers to 160-MC degree programmes.
- (ii) Particular Faculties/Schools may stipulate other requirements.
- (iii) This refers to 120-MC degree programmes.

This transcript shows the latest information. For information on earlier grade legends, please visit:

https://www.nus.edu.sg/registrar/student-records/transcripts/officialtranscripts

#### FACULTY OF LAW - DEGREE CLASSIFICATION

(a) The criteria for degree classification applicable to students conferred their Bachelor's of Laws (LLB) degrees from 30 June 2016 are as follows:

Degree Classification	Criteria	
First Class Honours	Obtained a Cumulative Weighted Numerical Average for all modules taken at NUS that is equivalent to a grade of A- or better, or finished in the top 10% of the graduating class.	
Second Class (Upper Division) Honours	Obtained a Cumulative Weighted Numerical Average for all modules taken at NUS that is equivalent to a grade of B or better, and do not qualify for First Class Honours.	
Second Class (Lower Division) Honours	Obtained a Cumulative Weighted Numerical Average for all modules taken at NUS that is equivalent to a grade of C or better, and do not qualify either for First Class or Second Class (Upper Division) Honours.	
Third Class Honours	Completed the number of credits required for a LLB (Honours) degree but do not qualify for First Class, Second Class (Upper Division) or Second Class (Lower Division) Honours.	

\*Note: A student will not be eligible for First Class or Second Class (Upper Division) Honours if:

- a) the student has failed more than 12 credits of modules at NUS (or while on an approved exchange programme); or
- b) the student has taken more than 9 semesters to complete the 4-year LLB programme or 7 semesters to complete the 3-year Graduate LLB programme (excluding periods where the student has been granted a leave of absence).
- (b) The criteria for degree classification applicable to students conferred their Juris Doctor (J.D.) degrees are as follows:

Degree Classification	Criteria		
JD (Highest Distinction)	Obtained a Cumulative Weighted Numerical Average for all modules taken at NUS that is equivalent to a grade of A- or better.		
JD (Distinction)	Obtained a Cumulative Weighted Numerica Average for all modules taken at NUS that is equivalent to a grade of B or better		
JD (Merit)	Obtained a Cumulative Weighted Numerica Average for all modules taken at NUS that is equivalent to a grade of C or better.		
JD	Completed the number of credits required for a JD degree but do not qualify for HD (Highest Distinction), HD (Distinction) or JD (Merit).		

#### CHECK FOR AUTHENTICITY:

This digital transcript has been issued by NUS and its authenticity is guaranteed only when it can be successfully accessed through the OpenCerts portal (opencerts.io) or nus.edu/e-documents.