

**WASEDA UNIVERSITY**  
**TOKYO, JAPAN**  
**TRANSCRIPT OF ACADEMIC RECORD/GPA**

(Student Number: 1W15BG04 )

School: School of Fundamental Science and Engineering

Major: Department of Computer Science and Engineering

Name: WANG, Chih-hao

Date of Birth: November 4, 1996

Period Attended: From September 21, 2015

To Present

SUBJECT	YEAR	Cr	Gr	GP	SUBJECT	YEAR	Cr	Gr	GP
[Group A]					*Software Engineering	2017	2	A+	4
(Multidisciplinary Studies)					*Information Retrieval	2017	2	A	3
Introduction to Logic	2015	2	A+	4	Electronic Circuits	2018	2	A+	4
Introduction to Ethics	2016	2	A+	4	Advanced Intelligent Software	2018	2	A+	4
Ideas that Shook the Universe	2016	2	A+	4	Perceptual Computing	2018	2	A+	4
(Foreign Language)					Design and Implementation of Programming Languages	2018	2	A+	4
Writing for Scientists and Engineers	2016	1	A+	4	Operating Systems	2019	2	A+	4
Research Presentation Skills	2017	1	A+	4	Foundations of Analysis	2016	2	A+	4
[Group B]					Information Design: Methods and Applications	2016	2	A+	4
(Mathematics)					Fundamentals of Robotics A	2016	2	A+	4
Calculus A	2015	4	A+	4	Numerical Analysis	2017	2	A+	4
Linear Algebra A	2015	2	A+	4	Exercise for Fundamental Mathematics	2017	4	A+	4
Calculus B	2016	4	A+	4	Fundamentals of Robotics B	2017	2	A+	4
Linear Algebra B	2016	2	A+	4	Human-Computer Interaction	2019	2	A+	4
Vector Calculus	2016	2	A+	4	Environmental Science B	2019	2	A+	4
Ordinary Differential Equations	2016	2	A+	4	Fundamentals of Urban Studies and Planning B	2019	2	A+	4
Discrete Mathematics	2016	2	A+	4	*Databases	2017	2	A+	4
*Introduction to Probability and Statistics	2017	2	A	3	Mathematical Programming	2017	2	A+	4
(Natural Science)					[Other Courses]				
Fundamentals of Mechanics	2015	2	A+	4	(Other Courses(Other Faculties・CJL))				
Fundamentals of Electromagnetism	2016	2	A+	4	Comprehensive Japanese 4	2015	5	A+	4
General Chemistry A	2015	2	A+	4	Japanese Traditional Culture and Pop Culture 6-8	2018	1	A+	4
General Chemistry B	2016	2	A+	4	Listening comprehension: Improving Accuracy in News	2018	1	A+	4
Introduction to Bioscience	2015	2	A+	4	Listening 6-7				
(Laboratory・Recitation)					Strategic Reading for Advanced Level Texts 6	2018	1	A	3
Science and Engineering Laboratory 1A	2016	3	A+	4					
Science and Engineering Laboratory 1B	2016	3	A+	4					
Science and Engineering Laboratory 2A	2017	2	A+	4					
(Information Science Courses)									
Introduction to Computer Science	2015	2	A+	4					
Introduction to Programming	2016	2	A+	4					
Codes and Ciphers	2016	2	A+	4					
Intermediate Programming	2016	2	A+	4					
Advanced Java Programming	2016	2	A+	4					
Introduction to Automata	2017	2	A+	4					
[Group C (Specialized Courses)]									
(Specialized Required Courses)									
Research Project B	2019	4	A+	4					
(Specialized Elective Required Courses)									
Circuit Theory A	2016	2	A+	4					
Logic Circuits	2016	2	A+	4					
Fundamentals of Programming	2016	2	A+	4					
Algorithms and Data Structures	2017	2	A+	4					
Computer Systems	2017	2	A+	4					
Signal Processing	2018	2	A+	4					
Information Network Systems	2018	2	A+	4					
Research Project A	2018	2	A+	4					
(Specialized Elective Courses)									

We do not rank students in this school.

Subjects marked with \* indicate credits transferred from other universities including overseas academic institutions.

Only subjects which are included in the GPA calculation are indicated above.

Calculation Formula:

[(No. of A+ credits x 4) + (No. of A credits x 3) + (No. of B credits x 2) + (No. of C credits x 1) + (No. of Failing Grades x 0)]

Total number of registered credits(Include failed subjects)

=GPA

Cr:Credit Gr:Grade

TOTAL REGISTERED CREDITS

124

GPA

3.96

Passing Grades: A+(90 - 100), A(80 - 89), B(70 - 79), C(60 - 69)

Failing Grades: F, G, H(0 - 59)

NOTE		
Study Abroad	9/21/2017 ~ 9/20/2018	National University of Singapore

Date: October 29, 2019

President, Waseda University

TANAKA, Aiji

Signature





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November 21, 2019.

TO WHOM IT MAY CONCERN,

This is to certify that as of November 21, 2019, my student Chih-hao Wang's GPA is 3.96, and that, according to this criterion, he is \*the\* very top student among all the current 4<sup>th</sup>-year international-course and Japanese-course students in the CS department (106 students in total - that makes him the top 1%).

Yours Sincerely,

A handwritten signature in black ink, appearing to read "Tetsuya Sakai".

Professor Tetsuya Sakai

Department of Computer Science and Engineering, Waseda University

<http://sakailab.com/tetsuya/>



NATIONAL UNIVERSITY  
of SINGAPORE

OFFICIAL TRANSCRIPT

NAME: WANG CHIH-HAO

STUDENT NO.: A0175111U

DATE OF BIRTH: 04/11/1996

DATE ISSUED: 01/07/2018

PROGRAMME: NON GRADUATING PROGRAMME

<u>MODULE</u>	<u>GRADE</u>	<u>CREDITS</u>
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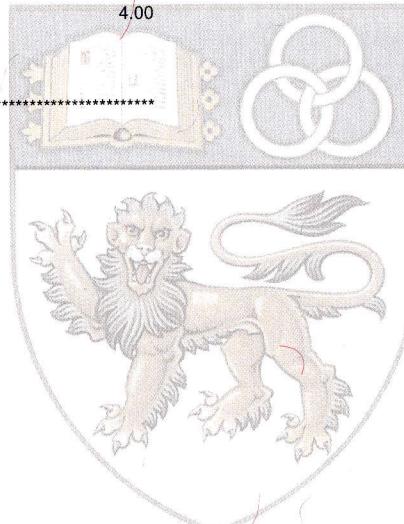
ACADEMIC YEAR 2017/2018 SEMESTER 1

BT3102	COMPUTATIONAL METHODS FOR BUSINESS ANALYTICS	B	4.00
CS21010	DATA STRUCTURES AND ALGORITHMS II	B+	4.00
CS2103	SOFTWARE ENGINEERING	A+	4.00
ST2131	PROBABILITY	A-	4.00

ACADEMIC YEAR 2017/2018 SEMESTER 2

CS2102	DATABASE SYSTEMS	A	4.00
CS3230	DESIGN AND ANALYSIS OF ALGORITHMS	B	4.00
CS3243	INTRODUCTION TO ARTIFICIAL INTELLIGENCE	B-	4.00
CS3245	INFORMATION RETRIEVAL	A-	4.00

\*\*\*\*\*END OF TRANSCRIPT\*\*\*\*\*



**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) 6516 2301 / (65) 6516 2304  
 Facsimile : (65) 6778 6371  
 Website : <http://www.nus.edu.sg/registrar>

#### TRANSCRIPT INFORMATION

Applicable to Undergraduate and Graduate programmes (unless specified otherwise)

#### MEDIUM OF INSTRUCTION

The medium of instruction used in the University is English, 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)
B	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

#### 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. Modules with no assigned modular credit or grade point are excluded from the calculation of CAP.

#### 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. One 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 culture of university life. It serves to facilitate a transformation in students' mindsets towards grades and learning in the university setting, as well as enable them to leverage opportunities for a holistic education. 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.

#### DEGREE CLASSIFICATION

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

##### Honours Degree Classification <sup>(i)</sup>

Honours (Highest Distinction)	Criteria
Honours (Distinction)	CAP 4.50 and above <sup>(ii)</sup>
Honours (Merit)	CAP 4.00 – 4.49
Honours	CAP 3.50 – 3.99
Pass	CAP 3.00 – 3.49
	CAP 2.00 – 2.99

##### Bachelor's Degree Classification <sup>(iii)</sup>

Bachelor's Degree Classification	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.

#### LEAVE OF ABSENCE

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

#### NUS BULLETIN

More information on the University's programmes is available in the NUS Bulletin at: <http://www.nus.edu.sg/nusbulletin>.

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

<http://www.nus.edu.sg/registrar/adminpolicy/transcripts.html>.

For degree verification, please visit:

<http://www.nus.edu.sg/registrar/administrative-policies/degree-verification.html>.

#### CHECK FOR AUTHENTICITY:

NUS official transcript is printed in landscape format on paper with security fibres and displays the NUS coat of arms as a watermark with a smaller NUS coat of arms in full colour as part of the letterhead. Each page of the official transcript is individually validated with the NUS seal and the Registrar's endorsement (on a tri-colour background) or by an authorised staff of the University.

**The following information is specific to the respective Faculties/ Schools:**

#### FACULTY OF DENTISTRY (BDS) / YONG LOO LIN SCHOOL OF MEDICINE (MBBS)

##### GRADE LEGEND

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

#### SUPPLEMENTARY EXAMINATION AND RE-EXAMINATION

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

#### FACULTY OF LAW (LLB)

##### DEGREE CLASSIFICATION

The criteria for degree classification applicable to students conferred their LLB degrees from 30 June 2016 are as follows:

Degree Classification	Criteria
First Class Honours <sup>(i)</sup>	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 <sup>(ii)</sup>	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.
	(i) No student will 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).

#### SUPPLEMENTARY EXAMINATION

Unless otherwise indicated, a student who passes a subject by supplementary examination is awarded only a 'D' grade irrespective of his/her performance.