TSINGHUA UNIVERSITY
ACADEMIC TRANSCRIPT

Student Name Hu Zihan

Gender Female   **Student No.** 2019012330   **Student Type** Undergraduate   **Date of Admission** August,2019

School/Department Institute for Interdisciplinary Information Sciences   **Major** Computer Science and Technology

Course Number	Course Title	Credit	Grade	Point	Year-Semester
12090052	Military Theory	2	A	4.0	2019-Summer
12090062	Military Skills	2	A-	4.0	2019-Summer
00691422	General History of Science	2	A-	4.0	2019-Autumn
00691472	Research on Chinese Technological Thought	2	P	N/A	2019-Autumn
00782741	Dance Culture and Aesthetics	1	P	N/A	2019-Autumn
10421055	Calculus A(1)	5	A+	4.0	2019-Autumn
10610183	Ideological Moral and Legal Education	3	A-	4.0	2019-Autumn
10680011	Situation and Policy	1	A-	4.0	2019-Autumn
10691342	Writing and Communication	2	A-	4.0	2019-Autumn
10720011	Physical Education(1)	1	A	4.0	2019-Autumn
10720150	Swimming Competency Test	0	P	N/A	2019-Autumn
14201102	English for Academic Purposes (B): Essay Writing	2	A-	4.0	2019-Autumn
20240013	Discrete Mathematics(1)	3	A+	4.0	2019-Autumn
20470044	Linear Algebra	4	A	4.0	2019-Autumn
30470013	Introduction to Computer Science	3	A-	4.0	2019-Autumn
00691432	Chinese Calligraphy Culture and Practice	2	P	N/A	2020-Spring
10421065	Calculus A(2)	5	B+	3.6	2020-Spring
10610193	Outline of Modern Chinese History	3	A-	4.0	2020-Spring
10690013	Roads to Academic	3	B+	3.6	2020-Spring
10720021	Physical Education(2)	1	A-	4.0	2020-Spring
14201092	English for Academic Purposes (A): Spoken Communication	2	A-	4.0	2020-Spring
20470024	General Physics(1)(in English)	4	A	4.0	2020-Spring
20470054	Abstract Algebra	4	A	4.0	2020-Spring
30470023	Mathematics for Computer Science	3	A+	4.0	2020-Spring
S1510021	Exploration to Scientific Research of Lab1	1	P	N/A	2020-Spring
30470232	The Physics of Information	2	A+	4.0	2020-Summer
30470312	Introduction to Databases	2	A+	4.0	2020-Summer
10610204	Principle of Marxist Philosophy	4	A	4.0	2020-Autumn
10720031	Physical Education(3)	1	A	4.0	2020-Autumn
14205004	Italian (Second Foreign Language)(1)	4	A	4.0	2020-Autumn
20250153	Fundamentals of Digital Electronics	3	A	4.0	2020-Autumn
20470034	General Physics(2)(in English)	4	A+	4.0	2020-Autumn
30470124	Algorithm Design	4	A	4.0	2020-Autumn
40690952	Logic, Computation and Games	2	A	4.0	2020-Autumn
40470243	Artificial Intelligence: Principles and Techniques	3	W	N/A	2020-Autumn
00782321	Foundation of Vocal Music	1	P	N/A	2021-Spring
10680022	Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era	2	A-	4.0	2021-Spring
10680032	Introduction to MaoZedong Thought and the Theoretical System of Socialism with Chinese Characterist1	2	A	4.0	2021-Spring
10680042	Introduction to MaoZedong Thought and the Theoretical System of Socialism with Chinese Characterist2	2	P	N/A	2021-Spring
10720041	Physical Education(4)	1	A	4.0	2021-Spring
20240033	Numerical Analysis	3	A	4.0	2021-Spring
20470084	Computer Architecture	4	A	4.0	2021-Spring

Total Credits: 173.0   **GPA:** 3.98   **Date of Graduation:** June,2023   **Degree Conferred:** Bachelor of Engineering

Director of Registrar's Office: 尹佳

Official Seal:

Date Printed: June 28, 2023

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TSINGHUA UNIVERSITY
ACADEMIC TRANSCRIPT

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Gender Female   **Student No.** 2019012330   **Student Type** Undergraduate   **Date of Admission** August,2019

School/Department Institute for Interdisciplinary Information Sciences   **Major** Computer Science and Technology

Course Number	Course Title	Credit	Grade	Point	Year-Semester
30470134	Theory of Computation	4	A+	4.0	2021-Spring
40470024	Fundamentals of Cryptography	4	A	4.0	2021-Spring
40470284	Quantum Computer Science	4	A-	4.0	2021-Spring
20470092	Introduction to Robotics	2	A	4.0	2021-Summer
00782221	Foundation of Modern Dance	1	P	N/A	2021-Autumn
10720110	Physical Education(1)	0	A-	4.0	2021-Autumn
30470084	Operating System	4	A	4.0	2021-Autumn
40470293	Quantum Communication and Cryptography	3	A+	4.0	2021-Autumn
30470332	Introduction to Programming in C/C++	2	A+	4.0	2022-Spring
S1510031	Exploration to Scientific Research of Lab2	1	P	N/A	2022-Spring
40470085	Research Immersion Training	5	A+	4.0	2022-Summer
40470169	Research Practice	9	A	4.0	2022-Autumn
40470434	Operating Systems and Distributed Systems	4	A	4.0	2022-Autumn
80470032	Design and Analysis of Algorithms	2	A	4.0	2022-Autumn
80470333	Advanced topics in cryptography	3	A	4.0	2022-Autumn
00780461	Introduction to Piano and Music Rudiments	1	A	4.0	2023-Spring
10720120	Physical Education(2)	0	B+	3.6	2023-Spring
30470154	Game Theory	4	A	4.0	2023-Spring
40470075	Diploma Project (Thesis)	15	A-	4.0	2023-Spring
80470353	Secure Multiparty Computation: Theory and Applications	3	A	4.0	2023-Spring

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KEY TO TRANSCRIPT

I. COURSE NUMBERING SYSTEM
Each course number consists of 8-10 characters.
The first character indicates the course level:
    0-4 or H-T, W = undergraduate courses
    6-9, A-G or X-Z = graduate courses

II. CREDIT
Credit is reported in terms of semester hours, whether earned during a 16-week semester or a summer session. For 1 unit of credit, either one hour per week is allotted to lecture or discussion, or two hours per week are allotted to laboratory, while more hours are needed for preparation or subsequent reading and study.

III. THE RECORD ENDS WITH **********.

IV. DATE OF GRADUATION and DEGREE CONFERRED
For currently enrolled undergraduates, the columns of DATE OF GRADUATION and DEGREE CONFERRED are **********.

V. GRADING SYSTEMS
a) EFFECTIVE for students who matriculated in spring 2015 and after
   (i)   Tsinghua University converted to a LETTER GRADING SYSTEM. The table below shows the grades in detail.
   (ii) Credits are given for A+, A, A-, B+, B, B-, C+, C, C-, D+, D, P and EX.
   (iii) W: Withdrew.
   (iv) I: Incomplete. Marked when a student's application is approved for not attending the final exam.
   (v)   EX: Exemption. Students receive credits for exempted courses.

Grade	Grade Points	Corresponding 100-point Range	Equivalent 100-point value*
A+	4.0	95-100	100
A			98
A-		90-94	92
B+	3.6	85-89	87
B	3.3	80-84	82
B-	3.0	77-79	78
C+	2.6	73-76	75
C	2.3	70-72	71
C-	2.0	67-69	68
D+	1.6	63-66	65
D	1.3	60-62	61
F	0	0-59	0
P	N/A	N/A	N/A
F	N/A	N/A	N/A

* For the transition period in 2015-2018 between the 100-point grading system and the letter grading system, Tsinghua has provided a corresponding average of values in the 100-point range of each grade. The equivalent 100-point value for course receiving credits corresponds to the median in the range. Students who matriculated in spring 2019 and after no longer use the equivalent 100-point value.

b) EFFECTIVE for students who matriculated prior to spring 2015
   (i)   100-POINT GRADING SYSTEM: Credits are given for 60 points and above.
   (ii) PASS/FAIL SYSTEM: Credits are given for PASS.
         DISTINCTION (for undergraduates only): Credits are given for DISTINCTION.
   (iii) REPEATED COURSES: The transcript displays only the latest result of a repeated course. Repeated courses are designated with an "Rn" code beside the final grade, where "n" indicates the number of times the course was repeated.

VI. GRADING POLICY REFORM 2015-2018
In the ten years prior to spring 2015, 30 percent of A-range grades have been given. From fall 2015, Tsinghua initiated a grading reform: A-range grades (A+, A, A-) were to account for 20 percent of the grades given in all courses. In Spring 2019, the faculty reaffirmed its commitment to fair and transparent assessment and removed its numeric target for the percent of A-range grades.

VII. GPA CALCULATION

$$GPA = \frac{\sum \text{Course Credit} * \text{Grade Point}}{\sum \text{Course Credit}}$$

GPA is shown for students who matriculated in spring 2015 and after in a 4.0 grading scale. Course grades with N/A (Not Applicable) should not be included in GPA calculation.