How to Authenticate This Official Transcript

This official transcript has been delivered to the recipient, and is intended solely for use by that recipient. It is not permissible to replicate this document or forward it to any person or organization other than the identified recipient. Release of this record or disclosure of its contents to any third party without written consent of the record owner is prohibited.

Printed Transcript:
If you have received this transcript as a printed document, you may verify its authenticity by testing the security features noted on the document.

Electronic Transcript:
This document is official when downloaded by a Parchment Receive member from their inbox. If receiving via email, this official transcript has been digitally signed and therefore contains special characteristics. This document will reveal a digital certificate that has been applied to the transcript, and for optimal results, we recommend that this document is viewed with the latest version of Adobe® Acrobat or Adobe® Reader. This digital certificate will appear in a pop-up screen or status bar on the document, display a blue ribbon, and declare that the document was certified by Parchment, with a valid certificate issued by GlobalSign CA for Adobe®. This document certification can be validated by clicking on the Signature Properties of the document.

The Blue Ribbon Symbol: The blue ribbon is your assurance that the digital certificate is valid, the document is authentic, and the contents of the transcript have not been altered.

Invalid: If the transcript does not display a valid certification and signature message, reject this transcript immediately. An invalid digital certificate display means either the digital signature is not authentic, or the document has been altered. The digital signature can also be revoked by the transcript office if there is cause, and digital signatures can expire. A document with an invalid digital signature display should be rejected.

Author Unknown: Lastly, one other possible message, Author Unknown, can have two possible meanings: The certificate is a self-signed certificate or has been issued by an unknown or untrusted certificate authority and therefore has not been trusted, or the revocation check could not complete. If you receive this message make sure you are properly connected to the internet. If you have a connection and you still cannot validate the digital certificate on-line, reject this document.

The current version of Adobe® Reader is free of charge, and available for immediate download at http://www.adobe.com.

ABOUT PARCHMENT: Parchment is an academic credential management company, specializing in delivery of official electronic credentials. As a trusted intermediary, all documents delivered via Parchment are verified and secure.

Learn more about Parchment at www.parchment.com

Washington University in St. Louis
Office of the University Registrar

Record Of: **Wu, Tong**
Student ID Number: 465823
Social Security No: 662-39-7199
Date Of Birth: 06/16/1998
Transcript Issued 12/15/2020 To:

Current Programs Of Study:
M.S. IN COMPUTER SCIENCE
SECOND MAJOR IN MATHEMATICS
B.S. IN COMPUTER SCIENCE

RECIPIENT AS DESIGNATED BY STUDENT

Fall Semester 2018

Course	Dept	Number	Units	Grade
PROBABILITY AND STATISTICS FOR ENGINEERING	ESE	E35 326	3.0	A
INTERNET OF THINGS	CSE	E81 222S	3.0	W
SEMINAR: DATA STRUCTURES AND ALGORITHMS	CSE	E81 247R	1.0	P#
OBJECT-ORIENTED SOFTWARE DEVELOPMENT LABORATORY	CSE	E81 332S	3.0	A
INTRODUCTION TO MACHINE LEARNING	CSE	E81 417T	3.0	A
STATISTICAL COMPUTATION	MATH	L24 475	3.0	A
PROBABILITY	MATH	L24 493	3.0	A

Spring Semester 2019

Course	Dept	Number	Units	Grade
WEB DEVELOPMENT	CSE	E81 204A	3.0	A
BAYESIAN METHODS IN MACHINE LEARNING	CSE	E81 515T	3.0	A
SPECIAL TOPICS IN COMPUTER SCIENCE THEORY	CSE	E81 544T	3.0	A
ANALYSIS OF IMAGING DATA	CSE	E81 586A	3.0	A
CALCULUS OF SEVERAL VARIABLES	MATH	L24 318	3.0	A+

Fall Semester 2019

Course	Dept	Number	Units	Grade
INDEPENDENT STUDY	CSE	E81 400E	6.0	A
SYSTEMS SECURITY	CSE	E81 523S	3.0	A+
COMPUTER VISION	CSE	E81 559A	3.0	A
MATHEMATICAL STATISTICS	MATH	L24 494	3.0	A
TOPICS IN PHYSICAL EDUCATION: INDEPENDENT FITNESS & CONDITIONING	P.E.	L28 136	1.0	P#
APPLICATIONS OF DEEP NEURAL NETWORKS	INFO	T81 558	3.0	A+

Spring Semester 2020

Course	Dept	Number	Units	Grade
INTRODUCTION TO ARTIFICIAL INTELLIGENCE	CSE	E81 511A	3.0	A
ADVANCES IN COMPUTER VISION	CSE	E81 659A	3.0	P#
INTERMEDIATE MICROECONOMIC THEORY	ECON	L11 4011	3.0	A+
MULTIVARIATE STATISTICAL ANALYSIS	MATH	L24 460	3.0	A

Fall Semester 2020

Course	Dept	Number	Units	Grade
VIDEO GAME PROGRAMMING	CSE	E81 450A	3.0	
HUMAN-IN-THE-LOOP COMPUTATION	CSE	E81 518A	3.0	
ALGORITHMS FOR NONLINEAR OPTIMIZATION	CSE	E81 543T	3.0	
MASTERS PROJECT	CSE	E81 598	3.0	

Remarks

FL2018 FROM: DEPAUW UNIVERSITY ENGINEERING MATHEMATICS A	0 UNITS
FL2018 FROM: DEPAUW UNIVERSITY ENGINEERING MATHEMATICS B	3.0 UNITS

Keri A. Disch
Keri A. Disch, University Registrar

Record Of: **Wu, Tong**

Student ID Number: 465823

Social Security No: 662-39-7199

Date Of Birth: 06/16/1998

Remarks

FL2018 FROM: DEPAUW UNIVERSITY	INTRODUCTION TO COMPUTER SCIENCE	3.0 UNITS
FL2018 FROM: DEPAUW UNIVERSITY	DATA STRUCTURES AND ALGORITHMS	3.0 UNITS
FL2018 FROM: DEPAUW UNIVERSITY	GENERAL CHEMISTRY II	3.0 UNITS
FL2018 FROM: DEPAUW UNIVERSITY	GENERAL CHEMISTRY LABORATORY II	1.0 UNITS
FL2018 FROM: DEPAUW UNIVERSITY	ECONOMICS ELECTIVE: 100-LEVEL	4.0 UNITS
FL2018 FROM: BEIJING JIAOTONG UNIVERSITY	ECONOMICS ELECTIVE: 200-LEVEL	8.0 UNITS
FL2018 FROM: DEPAUW UNIVERSITY	EDUCATION ELECTIVE: 100-LEVEL	4.0 UNITS
FL2018 FROM: DEPAUW UNIVERSITY	RELIGIOUS STUDIES ELECTIVE: 100-LEVEL	4.0 UNITS
FL2018 FROM: ADVANCED PLACEMENT	CALCULUS I	0 UNITS
FL2018 FROM: ADVANCED PLACEMENT	CALCULUS II	0 UNITS
FL2018 FROM: DEPAUW UNIVERSITY	DIFFERENTIAL EQUATIONS	3.0 UNITS
FL2018 FROM: DEPAUW UNIVERSITY	CALCULUS III	3.0 UNITS
FL2018 FROM: BEIJING JIAOTONG UNIVERSITY	MATRIX ALGEBRA	3.0 UNITS
FL2018 FROM: DEPAUW UNIVERSITY	FOUNDATIONS FOR HIGHER MATHEMATICS	3.0 UNITS
FL2018 FROM: DEPAUW UNIVERSITY	MATHEMATICS ELECTIVE: 300-LEVEL	8.0 UNITS
FL2018 FROM: DEPAUW UNIVERSITY	MUSIC ELECTIVE: 100-LEVEL	4.0 UNITS
FL2018 FROM: ADVANCED PLACEMENT	GENERAL PHYSICS I	0 UNITS
FL2018 FROM: ADVANCED PLACEMENT	GENERAL PHYSICS II	0 UNITS
FL2018 FROM: DEPAUW UNIVERSITY	PHYSICS ELECTIVE - 200 LEVEL	2.0 UNITS
FL2018 FROM: DEPAUW UNIVERSITY	ANTHROPOLOGY ELECTIVE: 100-LEVEL	4.0 UNITS
FL2018 FROM: DEPAUW UNIVERSITY	COLLEGE WRITING	3.0 UNITS

SP2020 SPECIAL NOTE: DURING THE SPRING OF 2020, A GLOBAL PANDEMIC REQUIRED SIGNIFICANT CHANGES TO
COURSEWORK. UNUSUAL ENROLLMENT PATTERNS AND GRADES MAY REFLECT THE TUMULT OF THE TIME.

Distinctions, Prizes and Awards

SP2020 TAU BETA PI - ENGINEERING HONOR SOCIETY

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

Keri A. Disch, University Registrar

Washington University in St. Louis
Office of the University Registrar
One Brookings Drive, Campus Box 1143, St. Louis, MO 63130-4899 www.registrar.wustl.edu 314-935-5959

Washington University in St. Louis is accredited by the Higher Learning Commission www.hlcommission.org, and its schools by various professional accrediting bodies. The CEEB code is 6929.

Transcript Nomenclature
Transcripts issued by Washington University are a complete and comprehensive record of all classes taken unless otherwise indicated. Each page lists the student's name and Washington University student identification number. Transcript entries end with a line across the last page indicating no further entries.

Degrees conferred by Washington University and current programs of study appear on the first page of the transcript. The Degrees Awarded section lists the date of award, the specific degree(s) awarded and the major field(s) of study.

Courses in which the student enrolled while at Washington University are listed in chronological order by semester, each on a separate line beginning with the course title followed by the academic department abbreviation, course number, credit hours, and grade.

Honors, awards, administrative actions, and transfer credit are listed at the end of the document under "Distinctions, Prizes and Awards" and "Remarks".

Course Numbering System
In general course numbers indicate the following academic levels: courses 100-199 = first-year; 200-299 = sophomore; 300-399 = junior; 400-500 = senior and graduate level; 501 and above primarily graduate level. The language of instruction is English unless the course curriculum is foreign language acquisition.

Unit of Credit/Calendar
Most schools at Washington University follow a fifteen-week semester calendar in which one hour of instruction per week equals one unit of credit. Several graduate programs in the School of Medicine and several master's programs in the School of Law follow a year-long academic calendar. The Doctor of Medicine program uses clock hours instead of credit hours.

Academic and Disciplinary Notations
Students are understood to be in good academic standing unless stated otherwise. Suspension or expulsion, i.e. the temporary or permanent removal from student status, may result from poor academic performance or a finding of misconduct.

Grading Systems
Most schools within Washington University employ the grading and point values in the Standard column below. Other grading rubrics currently in use are listed separately. See www.registrar.wustl.edu for earlier grading scales, notably for the School of Law, Engineering prior to 2010, Social Work prior to 2009 and MBA programs prior to 1998. Some programs do not display GPA information on the transcript. Cumulative GPA and units may not fully describe the status of students enrolled in dual degree programs, particularly those from schools using different grading scales. Consult the specific school or program for additional information.

Rating	Grade	Standard Points	Social Work
Superior	A+/A	4	4
	A-	3.7	3.7
	B+	3.3	3.3
Good	B	3	3
	B-	2.7	2.7
	C+	2.3	2.3
Average	C	2	2
	C-	1.7	1.7
	D+	1.3	0
Passing	D	1	0
	D-	0.7	0
Failing	F	0	0

Grade	Law Values (Effective Class of 2013)
A+	4.00-4.30
A	3.76-3.94
A-	3.58-3.70
B+	3.34-3.52
B	3.16-3.28
B-	3.04-3.10
C+	2.92-2.98
C	2.80-2.86
D	2.74
F	2.50-2.68

Additional Grade Notations			
AUD	Audit	NC/NCR/NCR#	No Credit
CIP	Course in Progress	NP	No Pass
CR/CR#	Credit	P/P#	Pass
E	Unusually High Distinction	PW	Permitted to Withdraw
F/F#	Fail	R	Course Repeated
H	Honors	RW	Required to Withdraw
HP	High Pass	RX	Reexamined in course
I	Incomplete	S	Satisfactory
IP	In Progress	U	Unsatisfactory
L	Successful Audit	W	Withdrawal
LP	Low Pass	X	No Exam Taken
N	No Grade Reported	Z	Unsuccessful Audit

(revised 11/2020)