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If you require further information regarding the authenticity of this transcript, you may email or call the Office of the Registrar at the Georgia Institute of Technology at [comments@registrar.gatech.edu](mailto:comments@registrar.gatech.edu) or 404-894-4150.

**THE GEORGIA INSTITUTE OF TECHNOLOGY**  
**GEORGIA INSTITUTE OF TECHNOLOGY**  
 A UNIT OF THE UNIVERSITY SYSTEM OF GEORGIA  
 OFFICE OF THE REGISTRAR - ATLANTA, GEORGIA 30332-0315  
**OFFICIAL DOCUMENT**

Student No: 902-99-9525

Date of Birth: 06-AUG-1989

Date Issued: 15-MAY-2021

AEEE

Page: 1

Issued To: Dingtian Zhang

PARCHMENT DOCUMENTID: 34208024

Record of: Dingtian Zhang

SUBJ	NO.	C	COURSE TITLE	CRED	GRD	PTS	R
Current Program							
Major : Computer Science							
Degrees Awarded Doctor of Philosophy 08-MAY-2021							
Primary Degree							
Major : Computer Science							
Degrees Awarded MS in Computer Science 02-MAY-2015							
Primary Degree							
Major : Computer Science							
Maj/Concentration : Human-Computer Interaction							
SUBJ	NO.	C	COURSE TITLE	CRED	GRD	PTS	R
Institution Information continued:							
Summer 2014							
Computer Science							
COOP	6012	A	Co-op Work Assignment	12.00	V	0.00	
Term:	Ehrs:	0.00	GPA-Hrs:	0.00	Pts:	0.00	GPA: 0.00
Fall 2014							
Computer Science							
CS	6460	A	Educ Tech-Foundations	3.00	A	12.00	
CS	7641	A	Machine Learning	3.00	B	9.00	
CSE	8997	A	Teaching Assistantship	3.00	V	0.00	
MUSI	6001	A	Mus Perception&Cognition	3.00	A	12.00	
Term:	Ehrs:	9.00	GPA-Hrs:	9.00	Pts:	33.00	GPA: 3.66
Spring 2015							
Computer Science							
CS	6770	A	Mixed Reality Design	3.00	A	12.00	
CS	6999	A	Master's Project	3.00	A	12.00	I
CS	8903	A	Special Problems	3.00	A	12.00	I
CS	8997	A	Teaching Assistantship	3.00	V	0.00	
Term:	Ehrs:	9.00	GPA-Hrs:	9.00	Pts:	36.00	GPA: 4.00
Fall 2015							
Computer Science							
CETL	8000	A	GTA Preparation	1.00	S	0.00	
CS	6491	A	Computer Graphics	3.00	B	9.00	
CS	7001	A	Grad Studies-Computing	5.00	A	20.00	
CS	8001	A	Seminar	1.00	S	0.00	I
GVU Brown Bag							
CS	8001	A	Seminar	1.00	S	0.00	I
CoC PhD career seminar							
CS	8903	A	Special Problems	3.00	A	12.00	I
CS	8997	A	Teaching Assistantship	6.00	V	0.00	
Term:	Ehrs:	14.00	GPA-Hrs:	11.00	Pts:	41.00	GPA: 3.72

INSTITUTION CREDIT:

Fall 2013

Human-Computer Interaction							
CS	4495	A	Computer Vision	3.00	W	0.00	
CS	6456	A	Principles-UI Software	3.00	A	12.00	
CS	6750	A	Human-Computer Interact	3.00	A	12.00	
CS	8803	A	Special Topics	3.00	A	12.00	I
Sonification Lab R&D Studio							
CS	8903	A	Special Problems	3.00	A	12.00	I
Term:	Ehrs:	12.00	GPA-Hrs:	12.00	Pts:	48.00	GPA: 4.00

Spring 2014

Computer Science							
CS	6999	A	Master's Project	6.00	A	24.00	I
CS	7470	A	Ubiquitous Computing	3.00	A	12.00	
CS	8803	A	Special Topics	3.00	A	12.00	I
Animal Interaction							
Term:	Ehrs:	12.00	GPA-Hrs:	12.00	Pts:	48.00	GPA: 4.00

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SUBJ	NO.	C	COURSE TITLE	CRED	GRD	PTS	R	SUBJ	NO.	C	COURSE TITLE	CRED	GRD	PTS	R	
Spring 2016								Institution Information continued:								
Computer Science								Fall 2017								
CS	7616	A	Pattern Recognition	3.00	W	0.00		Computer Science								
CS	8001	A	Seminar	1.00	S	0.00	I	COOP 6012	A	Co-op Work Assignment	12.00	V	0.00			
COSMOS Research Seminar								Term: Ehrs: 0.00 GPA-Hrs: 0.00 Pts: 0.00 GPA: 0.00								
CS	8999	A	Doctoral Thesis Prep	9.00	S	0.00	A	Spring 2018								
ECE	6615	A	Sensor Networks	3.00	A	12.00		Computer Science								
ECE	8903	A	Special Problems	3.00	A	12.00		CETL 8801	A	Special Topics	1.00	S	0.00			
Term: Ehrs: 7.00 GPA-Hrs: 6.00 Pts: 24.00 GPA: 4.00								Advanced GTA Preparation								
Summer 2016								CS	8997	A	Teaching Assistantship	3.00	V	0.00		
Computer Science								CS	9000	A	Doctoral Thesis	15.00	S	0.00	I	
COOP 6012	A	Co-op Work Assignment	12.00	V	0.00			Term: Ehrs: 16.00 GPA-Hrs: 0.00 Pts: 0.00 GPA: 0.00								
Term: Ehrs: 0.00 GPA-Hrs: 0.00 Pts: 0.00 GPA: 0.00								Summer 2018								
Fall 2016								Computer Science								
Computer Science								COOP 6012	A	Co-op Work Assignment	12.00	V	0.00			
CS	6455	A	User Interface Dsgn&Eval	3.00	W	0.00		GT 4694	A	Undergraduate Internship	1.00	V	0.00			
CS	6505	A	Computability&Algorithms	3.00	A	12.00		CREATE X Internship								
CS	8998	A	Research Assistantship	3.00	V	0.00		Term: Ehrs: 0.00 GPA-Hrs: 0.00 Pts: 0.00 GPA: 0.00								
CS	8999	A	Doctoral Thesis Prep	12.00	S	0.00	A	Fall 2018								
Term: Ehrs: 3.00 GPA-Hrs: 3.00 Pts: 12.00 GPA: 4.00								Computer Science								
Spring 2017								CS	8998	A	Research Assistantship	3.00	V	0.00		
Computer Science								CS	9000	A	Doctoral Thesis	12.00	S	0.00	I	
CS	7999	A	Prep-Doctoral Qual Exams	15.00	S	0.00		ID 6515	A	Interface Prototyping	3.00	A	12.00			
CS	8998	A	Research Assistantship	3.00	V	0.00		Term: Ehrs: 15.00 GPA-Hrs: 3.00 Pts: 12.00 GPA: 4.00								
CS	8999	A	Doctoral Thesis Prep	3.00	S	0.00	I	Spring 2019								
Term: Ehrs: 18.00 GPA-Hrs: 0.00 Pts: 0.00 GPA: 0.00								Computer Science								
Summer 2017								CS	6260	A	Applied Cryptography	3.00	V	0.00		
Computer Science								CS	8998	A	Research Assistantship	6.00	V	0.00		
COOP 6012	A	Co-op Work Assignment	12.00	V	0.00			CS	9000	A	Doctoral Thesis	12.00	S	0.00	I	
Term: Ehrs: 0.00 GPA-Hrs: 0.00 Pts: 0.00 GPA: 0.00								Term: Ehrs: 12.00 GPA-Hrs: 0.00 Pts: 0.00 GPA: 0.00								
***** CONTINUED ON NEXT COLUMN ***** CONTINUED ON PAGE 3 *****																



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Record of: Dingtian Zhang

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SUBJ	NO.	C	COURSE TITLE	CRED	GRD	PTS	R	Institution Information continued:			
								***** BEGIN GRADUATE SEMESTER TOTALS *****			
Fall 2019								Earned Hrs	GPA Hrs	Points	GPA
Computer Science								TOTAL INSTITUTION	208.00	71.00	278.00 3.91
CS	8997	A	Teaching Assistantship	3.00	V	0.00					
CS	9000	A	Doctoral Thesis	18.00	S	0.00	I	TOTAL TRANSFER	0.00	0.00	0.00 0.00
Term: Ehrrs: 18.00 GPA-Hrs: 0.00 Pts: 0.00 GPA: 0.00								OVERALL	208.00	71.00	278.00 3.91
Spring 2020								REGENTS	229.00	71.00	278.00 3.91
Computer Science											
CS	6476	A	Computer Vision	3.00	A	12.00					
CS	8998	A	Research Assistantship	3.00	V	0.00		ACADEMIC STANDING	Good Standing		
CS	9000	A	Doctoral Thesis	15.00	S	0.00	I	***** END GRADUATE SEMESTER TOTALS *****			
Term: Ehrrs: 18.00 GPA-Hrs: 3.00 Pts: 12.00 GPA: 4.00								***** END OF TRANSCRIPT *****			
								***** END OF RECORD *****			
Summer 2020											
Computer Science											
CS	8997	A	Teaching Assistantship	3.00	V	0.00					
CS	9000	A	Doctoral Thesis	12.00	S	0.00	I				
Term: Ehrrs: 12.00 GPA-Hrs: 0.00 Pts: 0.00 GPA: 0.00											
Fall 2020											
Computer Science											
CS	7450	A	Inform Visualization	3.00	V	0.00					
CS	8998	A	Research Assistantship	3.00	V	0.00					
CS	9000	A	Doctoral Thesis	15.00	S	0.00	I				
Term: Ehrrs: 15.00 GPA-Hrs: 0.00 Pts: 0.00 GPA: 0.00											
Spring 2021											
Computer Science											
CS	7643	A	Deep Learning	3.00	A	12.00					
CS	8998	A	Research Assistantship	3.00	V	0.00					
CS	9000	A	Doctoral Thesis	15.00	S	0.00	I				
Term: Ehrrs: 18.00 GPA-Hrs: 3.00 Pts: 12.00 GPA: 4.00											
***** CONTINUED ON NEXT COLUMN *****											

# GEORGIA INSTITUTE OF TECHNOLOGY OFFICIAL DOCUMENT INFORMATION

## ACCREDITATION

The Georgia Institute of Technology is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award bachelor's, master's, and doctoral degrees. Inquiries to the Southern Association of Colleges and Schools (SACS) should be forwarded to Southern Association of Colleges and Schools, 1866 Southern Lane, Decatur, Georgia 30033-4097, phone (404)679-4500. The Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - phone: (410)347-7700, has accredited engineering B.S. degrees in Aerospace, Biomedical, Chemical and Biomolecular, Civil, Computer, Electrical, Industrial, Materials Science, Mechanical, Nuclear and Radiological, Polymer and Fiber, and two engineering B.S. degrees offered through the Regional Engineering Program: Civil and Computer. Not currently accredited are the B.S. in Environmental Engineering and three engineering BS degrees offered through the Regional Engineering Program: Electrical, Mechanical, and Environmental. The American Chemical Society has accredited the BS. degree in Chemistry: the Human Factors and Ergonomics Society has accredited the Ph.D. in Engineering Psychology: the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the National Commission on Orthotic and Prosthetic Education (NCOPE) has accredited the M.S. Degree in Prosthetics and Orthotics (MSPO). The B.S. in Computer Science program is accredited by the Computing Accreditation Commission (CAC) of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - phone (410) 347-7700. The College of Management and all of its degrees are fully accredited by the Association to Advance Collegiate Schools of Business. The National Architectural Board has accredited the Master of Architecture; the American Council for Construction Education has accredited the BS. in Building Construction the M.S. in Building Construction and Integrated Facility Management is recognized by the International Facility Management Association (IFMA) and the Design Build Institute of America (DBIA). The Planning Accreditation Board has accredited the Master of City and Regional Planning: the BS.in Industrial Design has been accredited by the National Association of Schools in Art and Design (NASAD) and is recognized by the Industrial Designers Society of America. Extended version may be viewed at <http://catalog.gatech.edu/about/accreditation/>

## CALENDAR

Prior to July 1, 1948, the Georgia Institute of Technology was known as the Georgia School of Technology. From September, 1946, through Summer Term, 1999, the Institute was on the quarter system. Effective Fall Term, 1999, all curricula are based upon a semester calendar with three terms per calendar year. For academic calendar information please visit. <https://registrar.gatech.edu/calendar>

## CONTACT INFORMATION

Office of the Registrar, Georgia Institute of Technology, Atlanta, GA 30332-0315, 404-894-4150 (voice) 404-894-0167 (fax), [comments@registrar.gatech.edu](mailto:comments@registrar.gatech.edu), or <http://www.registrar.gatech.edu>

## COURSE NUMBERING SYSTEM

Course numbers below 1000 denote remedial courses and may not be used in satisfying degree requirements. Course numbers below 3000 denote lower division (freshman and sophomore) courses. Those numbered 3000-4999 denote upper division (junior and senior) courses. Courses designed for graduate students are numbered 6000 and above.

## GRADING SYSTEM

Effective September 17, 1973

Grade	Definition	Quality Points Per Credit Hour
A	Excellent	4
B	Good	3
C	Satisfactory	2
D	Passing	1
F	Failure	0
S	Satisfactory completion of a course taken under pass/fail, or of a course in which no other letter grade may be assigned	0
U	Unsatisfactory completion of a course taken under pass/fail, or of a course in which no other letter grade may be assigned	0
V	Audit (no academic achievement implied)	0
I	Incomplete	0
W	Withdraw	0
NR	Not Reported. Assigned when an instructor fails to submit grades by the published deadline, through no fault of the student	0

## GRADE POINT AVERAGE

The scholastic average is computed by dividing the quality points earned by the number of credit hours scheduled in which a final grade of A, B, C, D or F has been recorded. In the case of repeated courses, all grades earned are calculated into the grade point average with the exception of those changed via grade substitution (see below). The Institution grade point average displayed will take Substituted grades into consideration. The Regents grade point average displayed will be a calculation of all grades. Prior to Fall Term, 1999, all instances of an individual course, including those associated with repeated and remedial courses, were counted in the total number of earned hours. Effective Fall Term 1999, earned hours from repeated courses and remedial courses (those numbered below 1000) will not be included in the earned hours total.

## GRADE SUBSTITUTION

Beginning with first-time freshmen entering Fall 2005 through Spring 2019, students may request a grade substitution for no more than two courses taken in the first two semesters where the grade is "D" or "F". The original grade will not be included in the computation of the grade point average but will appear on the transcript. Effective Summer 2019, undergraduate students may repeat courses for grade substitution according to the criteria established at <http://catalog.gatech.edu/policies/grading-gpa/grade-substitution/>

## ANTICIPATED GRADUATION DATE

Anticipated graduation dates are calculated for all students based on the average number of terms required to complete degree requirements with the assumption that the student will enroll as a full-time student each term (including summer term). The anticipated graduation date should not be viewed as a guarantee of graduation.

Graduation is based on hours, courses and scholastic average only: no prescribed time is set.

## ACADEMIC STANDING

### GOOD

Student is not on academic warning « probation; is maintaining satisfactory academic progress.

### WARNING

A sub-set of GOOD. Student's most recent academic performance has been unsatisfactory *or* the overall average is below the minimum requirement.

### PROBATION

Student's most recent academic performance has been extremely unsatisfactory or the overall academic average has continued to be below the minimum requirement.

### REVIEW

Student who normally would be dropped from the rolls due to academic deficiencies but appears from the record not to have completed the term. Student cannot be enrolled on Review status.

### DROP/DISMISSAL

Student has been dropped from the rolls due to academic deficiencies.

## DEANS LIST FACULTY HONORS

Term honors for undergraduate students on GOOD academic standing. Deans List- 3.0 grade point average for term with no incomplete grades and a full load taken on letter grade basis  
Faculty Honors - 4.0 grade point average for term with no incomplete grade or Withdrawals and a full load taken on letter grade basis.

## TRANSFER CREDIT

In general, a grade of "C" or better is required before transfer credit is awarded. Courses transferred from another institution are recorded as the equivalent Georgia Tech courses and the grades are not recorded

## TRANSCRIPT LEGEND

SUBJ	=	Subject
NO	=	Course Number
C	=	Campus (A =Atlanta Campus, O = Online) Full listing at <a href="https://registrar.gatech.edu/info/campus-codes">https://registrar.gatech.edu/info/campus-codes</a>
TITLE	=	Course Title
CRED	=	Credit Hours
GRD	=	Grade
PTS	=	Quality Points
R	=	Indicates course has been repealed.
Repeat column codes:		
E	=	Excluded from earned hours and GPA
I	=	Included in earned hours and GPA
A	=	Included in GPA, but not in earned hours