

Student Name: Yumeng Xiu

Birth Date/Month: 26-Feb

Date Awarded Degree Awarded

May 14, 2023 Master of Science in Mechanical Engineering - Research

## Beginning of Graduate Record

### Fall 2020

DPT	CRS #	COURSE TITLE	UNITS	FINAL GRADE	QUALITY POINTS
ROB	16720	COMPUTER VISION	12.0	A	48.0
		UNITS PASSED	UNITS FACTORED	FINAL QPA	TOTAL POINTS
Semester		12.0	12.0	4.00	48.0
Cumulative		12.0	12.0	4.00	48.0

### Spring 2021

DPT	CRS #	COURSE TITLE	UNITS	FINAL GRADE	QUALITY POINTS
MLG	10601	MACHINE LEARNING	12.0	B+	40.0
MEG	24703	NUML MTHS IN ENGNG	12.0	A	48.0
MEG	24794	MSTR OF SCNCE RSRCH	24.0	A	96.0
		UNITS PASSED	UNITS FACTORED	FINAL QPA	TOTAL POINTS
Semester		48.0	48.0	3.83	184.0
Cumulative		60.0	60.0	3.87	232.0

### Spring 2022

DPT	CRS #	COURSE TITLE	UNITS	FINAL GRADE	QUALITY POINTS
LTI	11785	INTRO DEEP LRNG.	12.0	A	48.0
ECE	18660	OPTIMIZATION	12.0	A	48.0
MEG	24791	GRADUATE SEMINAR	0.0	S	0.0
MEG	24794	MSTR OF SCNCE RSRCH	24.0	A	96.0
		UNITS PASSED	UNITS FACTORED	FINAL QPA	TOTAL POINTS
Semester		48.0	48.0	4.00	192.0
Cumulative		108.0	108.0	3.93	424.0

### Fall 2022

DPT	CRS #	COURSE TITLE	UNITS	FINAL GRADE	QUALITY POINTS
ROB	16833	LOCALIZATION/MAPPING	12.0	A	48.0
MEG	24677	ST: LIN CTRL SYS	12.0	A-	44.0
MEG	24791	GRADUATE SEMINAR	0.0	S	0.0
MEG	24794	MSTR OF SCNCE RSRCH	24.0	A	96.0
		UNITS PASSED	UNITS FACTORED	FINAL QPA	TOTAL POINTS
Semester		48.0	48.0	3.92	188.0
Cumulative		156.0	156.0	3.92	612.0

### Spring 2023

DPT	CRS #	COURSE TITLE	UNITS	FINAL GRADE	QUALITY POINTS
ROB	16745	OPT CNTRL & REIN LRN	12.0	A	48.0
MEG	24784	ST: TRUST AI	12.0	A	48.0
MEG	24791	GRADUATE SEMINAR	0.0	S	0.0
MEG	24794	MSTR OF SCNCE RSRCH	24.0	A	96.0
		UNITS PASSED	UNITS FACTORED	FINAL QPA	TOTAL POINTS
Semester		48.0	48.0	4.00	192.0
Cumulative		204.0	204.0	3.94	804.0

## End of Graduate Record

A raised seal is not required.

<http://www.cmu.edu/hub/transcript-legend.html>

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John R. Papinchak  
University Registrar

# Carnegie Mellon University

## Transcript Information

This information is also available at:

<https://www.cmu.edu/hub/registrar/student-records/transcripts/legend.html>

### Contact Information

Please direct all questions to The University Registrar's Office:

Carnegie Mellon University      Phone: 412-268-4138  
University Registrar's Office      Fax: 412-268-6651  
5000 Forbes Avenue              Email: [uro-transcripts@andrew.cmu.edu](mailto:uro-transcripts@andrew.cmu.edu)  
Pittsburgh, PA 15213-3890      Website: <http://www.cmu.edu/hub>

### Family Education Rights and Privacy Act (FERPA) of 1974 as Amended

This record is released on the condition that the student information contained herein will not be transferred to a third party without the written consent of the student.

### Accreditation

Carnegie Mellon University is an accredited member of the Middle States Commission on Higher Education, 3624 Market St., Philadelphia, PA 19104.

College and department accreditations include:

- Accreditation Board for Engineering Technology (ABET) – Chemical Engineering, Civil Engineering, Electrical and Computer Engineering, Engineering and Public Policy, Mechanical Engineering, and Materials Science and Engineering
- National Architectural Accrediting Board (NAAB) – Architecture
- National Association of Schools of Art and Design (NASAD) – Art and Design
- National Association of Schools of Music (NASM) – Music
- American Assembly of Collegiate Schools of Business (AACSB) and Middle Atlantic Association of College of Business Administration (MAACBA) – David A. Tepper School of Business; American Chemical Society (ACS) – Chemistry
- National Association of Schools of Public Affairs and Administration (NAPAA) – H. John Heinz III College.

### Language of Instruction

All Carnegie Mellon University courses are taught in English.

### Teaching Location

This transcript reflects all Carnegie Mellon coursework, independent of campus or teaching location.

### Calendar

Carnegie Mellon observes the semester system with two six-week summer sessions. Courses may be taught in other shortened sessions.

### Course Numbers

Each Carnegie Mellon University course number begins with a two-digit prefix which designates the department offering the course (76-xxx courses are offered by the Department of English, etc.). Although each department maintains its own course numbering practices, typically the first digit after the prefix indicates the class level: xx-1xx courses are freshmen-level, xx-2xx courses are sophomore level, etc. xx-6xx courses may be either undergraduate senior-level or graduate-level, depending on the department. Xx-7xx courses and higher are graduate-level.

### Degree Requirements

Degrees are awarded upon satisfactory completion of residence requirements, all requirements in the approved curriculum(a) and by recommendation for degree(s) by the faculty of the appropriate college(s).

### Units of Work vs. Credit Hours

Three units equal one semester hour of credit.

### Quality Point Average (QPA) Calculations

Carnegie Mellon University defines a quality point as a point value times units for a given course. QPAs are calculated according to the following formula:

*Semester QPA:* quality points divided by factorable units.

*Cumulative QPA:* total quality points divided by total factorable units.

Undergraduate courses may not be factorable into the QPA for graduate students, depending on the student's college.

### Units Carried vs. Passed vs. Factored

Units Carried refers to the total number of units for which the student is registered.

Units Passed is the total of all units that have a passing grade. Grades of 'R', 'N', and 'I' are not included in units passed.

Units Factored is the total of all units factored into QPA. See Grading Standards for grades not factorable into QPA. Undergraduate courses are not factorable into QPA for graduate students.

### Cumulative QPA

A separate cumulative QPA is calculated for undergraduate and graduate records. If a student attends for a combination of undergraduate, graduate studies, and/or non-degree studies, a cumulative QPA may not be calculated.

Cumulative QPA may not be available on transcripts for semesters prior to 1989.

### 4.0 Grading Standards

Undergraduate students (and graduate students in CFA, CIT, CMU, MCS, and SCS who entered before Fall 1995):

Grade	Point Value	Description
A	4.0	Excellent
B	3.0	Good
C	2.0	Satisfactory
D	1.0	Passing
R	0.0	Failure
X	0.0	Conditional Failure
S	non-factorable	Satisfactory
P	non-factorable	Passing
N	non-factorable	Failure in Pass/Fail Course
O	non-factorable	Audit
W	non-factorable	Withdrawal
I	non-factorable	Incomplete
AD	non-factorable	Credit by examination
TR	non-factorable	Transfer credit

### 4+ Grading Standards / 9.0 Grading Standards

The 4+ grading scale is applicable to graduate students who entered in and after Fall 1995. The 9.0 grading scale is applicable only to certain graduate students who entered before Fall 1995: Students in the Graduate School of Industrial Administration (GSIA, now Tepper School of Business (TSB)), the School of Urban and Public Affairs (SUPA, now Heinz College (HC)), and graduate students who were admitted to the College of Humanities and Social Sciences (H&SS, now Dietrich College (DC)) after August 1986.

Grade	Point Value (4+)	Point Value (9.0)	Description
A+ *	4.33	9	
A	4.00	8	
A-	3.66	7	
B+	3.33	6	
B	3.00	5	
B-	2.67	4	
C+	2.33	3	
C	2.00	2	
C-	1.67	1	
D+ *	1.33	-	
D *	1.0	0	
R	0.0	0	Failure
X	0.0	-	Conditional Failure
S	non-factorable	non-factorable	Satisfactory
P	non-factorable	non-factorable	Passing
N	non-factorable	-	Failure in Pass/Fail Course
O	non-factorable	-	Audit
W	non-factorable	-	Withdrawal
I	non-factorable	-	Incomplete
AD	non-factorable	-	Credit by examination
TR	non-factorable	-	Transfer credit

\* DC and CIT graduate students are not permitted to receive an A+. TSB and HC graduate students do not receive D or D+ grades.

**After the mid-point of the spring 2020 semester, a global pandemic caused a significant disruption that warranted temporary changes to our grading policy. These changes offered broader use of our Pass/No Pass (P/NP) grading option and the acceptance of passing grades to fulfill degree requirements.**

### Grading Scale & QPA Conversion

We are unable to provide conversion to other grading scales, such as percentage. A guide to our grading scale is provided on the back of all official transcripts. While we do provide overall semester QPA and cumulative QPA, we are unable to provide an "in-major" QPA (i.e. QPA for courses only in your major).

### Physical Education Courses

Physical Education Courses are considered Units Passed in the student's overall semester and cumulative QPA; they are not considered Units Factorable and are not used in calculating the student's overall semester QPA, rank in class or for academic actions.

### Statement Of Assurance

Carnegie Mellon University does not discriminate in admission, employment, or administration of its programs or activities on the basis of race, color, national origin, sex, handicap or disability, age, sexual orientation, gender identity, religion, creed, ancestry, belief, veteran status, or genetic information. Furthermore, Carnegie Mellon University does not discriminate and is required not to discriminate in violation of federal, state, or local laws or executive orders.

Inquiries concerning the application of and compliance with this statement should be directed to the Vice President for Campus Affairs, Carnegie Mellon University, 5000 Forbes Avenue, Pittsburgh, PA 15213, telephone 412-268-2056.

Obtain general information about Carnegie Mellon University by calling 412-268-2000.

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