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University of Waterloo  
200 University Ave. West  
Waterloo Ontario  
Canada  
N2L3G1

# Undergraduate Official Transcript



**Name:** Suo, Yinglun  
**Student ID:** 20650836  
**Ontario Education Nbr:** 847687829

## Degrees Awarded

**Degree:** Bachelor of Mathematics  
**Confer Date:** 06/19/2020  
**Computer Science, Honours**  
**Statistics, Honours**

## Beginning of Undergraduate Record

### Fall 2016

**Program:** Computer Science, Honours

Course	Description	Attempted	Earned	Grade
CS 135	Designing Functional Programs	0.50	0.50	81
ECON 101	Introduction to Microeconomics	0.50	0.50	81
EMLS 102R	Clear Communication in English Writing	0.50	0.50	67
MATH 135	Algebra for Honours Mathematics	0.50	0.50	79
MATH 137	Calculus 1 for Honours Mathematics	0.50	0.50	80
Academic Standing: Good standing Effective 12/31/2016				

### Winter 2017

**Program:** Computer Science, Honours

Course	Description	Attempted	Earned	Grade
CS 136	Elementary Algorithm Design and Data Abstraction	0.50	0.00	46
ECON 102	Introduction to Macroeconomics	0.50	0.50	81
MATH 136	Linear Algebra 1 for Honours Mathematics	0.50	0.50	77
MATH 138	Calculus 2 For Honours Mathematics	0.50	0.50	60
PHYS 111	Physics 1	0.50	0.50	85
Academic Standing: Good standing Effective 04/30/2017				

### Spring 2017

**Program:** Computer Science, Honours

Course	Description	Attempted	Earned	Grade
CS 136	Elementary Algorithm Design and Data Abstraction	0.50	0.50	74
EMLS 103R	Effective English Pronunciation	0.50	0.50	70
MATH 239	Introduction to Combinatorics	0.50	0.50	78
STAT 230	Probability	0.50	0.50	73
Academic Standing: Good standing Effective 08/31/2017				

### Fall 2017

**Program:** Computer Science, Honours

Course	Description	Attempted	Earned	Grade
CHEM 120	Physical and Chemical Properties of Matter	0.50	0.50	77
CS 245	Logic and Computation	0.50	0.50	86
CS 246	Object-Oriented Software Development	0.50	0.50	74
STAT 231	Statistics	0.50	0.50	79
Academic Standing: Good standing Effective 12/31/2017				



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Student ID: **20650836**  
Ontario Education Nbr: **847687829**

## Winter 2018

Program: Computer Science, Honours

Course	Description	Attempted	Earned	Grade
CS 240	Data Structures and Data Management	0.50	0.50	72
CS 241	Foundations of Sequential Programs	0.50	0.50	77
CS 251	Computer Organization and Design	0.50	0.50	84
ECON 201	Microeconomic Theory for Business and Policy	0.50	0.50	88

Academic Standing: Good standing Effective 05/18/2018

## Spring 2018

Program: Computer Science, Honours

Course	Description	Attempted	Earned	Grade
CS 350	Operating Systems	0.50	0.50	70
CS 370	Numerical Computation	0.50	0.00	WD
ECON 206	Money and Banking 1	0.50	0.50	73
MATH 235	Linear Algebra 2 for Honours Mathematics	0.50	0.50	72
MATH 237	Calculus 3 for Honours Mathematics	0.50	0.50	83

Academic Standing: Good standing Effective 09/19/2018

## Fall 2018

Program: Computer Science, Honours

Course	Description	Attempted	Earned	Grade
CS 341	Algorithms	0.50	0.50	66
CS 349	User Interfaces	0.50	0.50	73
ECON 344	Marketing 1: Principles of Marketing and Consumer Economics	0.50	0.50	80
STAT 330	Mathematical Statistics	0.50	0.50	71
STAT 331	Applied Linear Models	0.50	0.50	74

Academic Standing: Good standing Effective 01/18/2019

## Winter 2019

Program: Computer Science, Honours  
Statistics, Honours

Course	Description	Attempted	Earned	Grade
CS 370	Numerical Computation	0.50	0.50	81
STAT 332	Sampling and Experimental Design	0.50	0.50	82
STAT 333	Applied Probability	0.50	0.50	70
STAT 443	Forecasting	0.50	0.50	78

Academic Standing: Good standing Effective 05/22/2019

## Spring 2019

Program: Computer Science, Honours  
Statistics, Honours

Course	Description	Attempted	Earned	Grade
CS 446	Software Design and Architectures	0.50	0.50	88
CS 480	Introduction to Machine Learning	0.50	0.50	83
ENGL 378	Professional Communications in Statistics and Actuarial Science	0.50	0.50	84
STAT 431	Generalized Linear Models and their Applications	0.50	0.50	65

Academic Standing: Good standing Effective 09/18/2019





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### Fall 2019

**Program:** Computer Science, Honours  
Statistics, Honours

Course	Description	Attempted	Earned	Grade
CS 360	Introduction to the Theory of Computing	0.50	0.50	70
CS 486	Introduction to Artificial Intelligence	0.50	0.50	68
STAT 430	Experimental Design	0.50	0.50	85

Academic Standing: Good standing Effective 01/21/2020

### Winter 2020

**Program:** Computer Science, Honours  
Statistics, Honours

COVID-19 impacted assessment methods and performance in many courses this term.

Course	Description	Attempted	Earned	Grade
MUSIC 100	Understanding Music	0.50	0.50	86

Academic Standing: Good standing Effective 05/27/2020

Term Honours: Term Distinction

### Milestones

Date Completed	Description	Status
12/20/2016	English Proficiency	Completed

### Scholarships and Awards

2017 University of Waterloo President's Scholarship of Distinction

End of Undergraduate Official Transcript

## Grading

### Effective Fall 2001

#### Graduate Studies

Averages are reported in all Faculties as percentages. Average calculation values are used for overall averages for students with letter grades on their records.

Numeric grades on a scale from 0 – 100 as well as CR and NCR will be used by all Faculties. Grades for all courses taken prior to Fall 2001 appear on transcripts either as one of 10 letter grades from A+ to F, or as numeric grades on a percentage scale.

#### Undergraduate Studies

Averages are reported in all Faculties as percentages. Average calculation values are used for overall averages for students with letter grades on their records.

Numeric grades on a scale from 0 – 100 as well as CR and NCR will be used by all Faculties. Grades for all courses taken prior to Fall 2001 appear on transcripts either as one of 15 letter grades from A+ to F-, or as numeric grades on a percentage scale.

### Fall 1971 to Spring 2001

#### Graduate Studies

<i>Assigned Letter Grade</i>	<i>Percentage Range</i>	<i>Average Calculation Value</i>
A+	90 – 100	95
A	85 – 89	89
A-	80 – 84	83
B+	77 – 79	78
B	73 – 76	75
B-	70 – 72	72
C+	67 – 69	68
C	63 – 66	65
C-	60 – 62	62
F	0 – 59	0

#### Undergraduate Studies

<i>Assigned Letter Grade</i>	<i>Percentage Range</i>	<i>Average Calculation Value</i>
A+	90 – 100	95
A	85 – 89	89
A-	80 – 84	83
B+	77 – 79	78
B	73 – 76	75
B-	70 – 72	72
C+	67 – 69	68
C	63 – 66	65
C-	60 – 62	62
D+	57 – 59	58
D	53 – 56	55
D-	50 – 52	52
F+	42 – 49	46
F	35 – 41	38
F-	0 – 34	32

## Non-numeric Grades

### Graduate Studies

<i>Grade</i>	<i>Description</i>
ACC	Accepted (thesis)
AEG	Aegrotat, credit granted due to illness or extenuating circumstances
AUD	Audit, no credit granted
CR	Credit granted
DNW	Did not write examination, no credit granted (value 0)
FTC	Failure to complete course requirements in a course with a grade of INC (incomplete), no credit granted (value 0)
INC	Incomplete course work, no credit granted
NAC	Not accepted (thesis)
NCR	No credit granted
NMR	No mark reported, no credit granted (value 0)
T	Transfer credit granted
UR	Under review, decision pending, no credit granted
WD	Withdrew, no credit granted

### Undergraduate Studies

<i>Grade</i>	<i>Description</i>
AEG	Aegrotat, credit granted under extraordinary circumstances
AUD	Audit, no credit granted
CR	Credit granted
DNW	Did not write examination, no credit granted (value 32)
FTC	Failure to complete course requirements, no credit granted (value 32)
INC	Incomplete course work, no credit granted
IP	Course in progress, no grade assigned at this time and no credit granted
MM	Missing mark
NCR	No credit granted, failure recorded
NG	In progress grade
NMR	No mark reported, no credit granted (value 32)
UR	Grade under review or disciplinary proceedings underway, decision pending, no credit granted
WD	Withdrew, no credit granted
WF	Withdrew/Failure, no credit granted (value 32)

### Notes

- Date format: MM/DD/YYYY.
- Milestone: A non-course requirement that must be met to receive the credential.
- Courses vary from 0.00 to 3.00 units. Most courses have a 0.50 unit and are of one-term duration. Course units are used to calculate weighted averages.
- **This transcript legend may be periodically updated.** Please visit [uwaterloo.ca/registrar/transcripts/transcript-legend](http://uwaterloo.ca/registrar/transcripts/transcript-legend) for the previous transcript legend.
- The University of Waterloo is a public university having full membership in the Council of Ontario Universities and the Association of Universities and Colleges of Canada. These memberships constitute full accreditation in Canada.

### Graduate Studies

1. Graduate students must obtain an average of at least 70% in the set of courses they present in fulfilment of course requirements for any graduate degree. Some departments may require higher program averages or course grades for graduate degrees.
2. The grading scheme for the external institution applies to courses taken for Graduate Studies transfer credit. A grade status of "T" is applied where the grading system from an external institution differs from that of the University of Waterloo.
3. A standing of INC will convert to FTC following a lapse period of two academic terms.

### Undergraduate Studies

1. Courses with (WLU) in the description have been taught at Wilfrid Laurier University.
2. Grades for courses taken at Wilfrid Laurier University will be reported as letter grades and converted to University of Waterloo numeric values for the purpose of calculating averages.