UNIVERSITY OF TORONTO

TRANSCRIPT OF CONSOLIDATED ACADEMIC RECORD
TORONTO, ONTARIO, CANADA

NAME: **Lo, Alston Lon Hang**	RECORD AS OF: **2024-07-24**
	STUDENT NUMBER: 1006172151
ISSUED TO: Alston Lo	OEN: 348925058
	BIRTH DAY/MONTH: 29/11

REGISTRATION HISTORY
2019 Fall - 2024 Winter : Faculty of Arts and Science

GRADUATION SUMMARY
HONOURS BACHELOR OF SCIENCE CONFERRED - JUNE 2024 WITH HIGH DISTINCTION

Faculty of Arts and Science

Completed - 2024 Winter - SPECIALIST - COMPUTER SCIENCE

2020 Winter-Dean's List Scholar
2021 Winter-Dean's List Scholar
2022 Winter-Dean's List Scholar

CRS CODE	TITLE	WGT			
PSY1***	Transfer Credit - Equivalent	0.50			
	(BR=2)				
	Advanced Placement Examination				

Credits earned: 0.50

2019 FALL - 1ST YEAR STUDIES IN LIFE SCIENCES - TRINITY COLLEGE
SESSIONAL GPA: **4.00**   CUMULATIVE GPA: **4.00**

CRS CODE	TITLE	WGT	MRK	GRD	CRS AVG
BIO120H1	Adaptation & Biodiv	0.50	97	A+	B
CHM151Y1	Chemistry: Molec Sci	1.00		IPR	
MAT157Y1	Analysis I	1.00		IPR	
MAT240H1	Algebra I	0.50	98	A+	B-
SOC100H1	Intro to Soc-Soc Perspectives	0.50	91	A+	C+

Credits earned: 1.50

2020 WINTER - 1ST YEAR STUDIES IN LIFE SCIENCES - TRINITY COLLEGE
In the 2019-20 academic year, the University of Toronto was affected by the global COVID-19 pandemic. Instructional methods were modified and some students were graded on the University's approved Credit/No Credit scale for courses completed in Winter 2020.
For more information, see:
http://www.transcripts.utoronto.ca/guide
SESSIONAL GPA: **4.00**   ANNUAL GPA: **4.00**   CUMULATIVE GPA: **4.00**
STATUS: **IN GOOD STANDING**

CRS CODE	TITLE	WGT	MRK	GRD	CRS AVG
BIO130H1	Molecular & Cell Bio	0.50	100	A+	B+
CHM151Y1	Chemistry: Molec Sci	1.00	96	A+	B
CSC148H1	Intro to Comp Sci	0.50	99	A+	B+
CSC165H1	Math Expr&Rsng for Cs	0.50	98	A+	B+
MAT157Y1	Analysis I	1.00	94	A+	B-

Credits earned: 3.50

2020 SUMMER - BACHELOR'S DEGREE PROGRAM - TRINITY COLLEGE
SESSIONAL GPA: **4.00**   CUMULATIVE GPA: **4.00**
STATUS: **IN GOOD STANDING**

CRS CODE	TITLE	WGT	MRK	GRD	CRS AVG
CSC299Y1	Rsch Opportunity Prg	1.00	90	A+	*

Credits earned: 1.00

2020 FALL - BACHELOR'S DEGREE PROGRAM - TRINITY COLLEGE
SESSIONAL GPA: **4.00**   CUMULATIVE GPA: **4.00**
STATUS: **IN GOOD STANDING**

CRS CODE	TITLE	WGT	MRK	GRD	CRS AVG
CHM222H1	Intro Phys Chem	0.50	92	A+	B
CSC207H1	Software Design	0.50	92	A+	B+
CSC265H1	Enr Data Struct Anal	0.50	97	A+	B
MAT257Y1	Analysis II	1.00		IPR	
STA257H1	Probability and Statistics I	0.50	93	A+	B-

Credits earned: 2.00

2021 WINTER - BACHELOR'S DEGREE PROGRAM - TRINITY COLLEGE
SESSIONAL GPA: **4.00**   ANNUAL GPA: **4.00**   CUMULATIVE GPA: **4.00**
STATUS: **IN GOOD STANDING**

CRS CODE	TITLE	WGT	MRK	GRD	CRS AVG
CSC209H1	Soft Tools & Sys Prog	0.50	98	A+	B+
CSC258H1	Computer Organizatn	0.50	100	A+	A-
CSC373H1	Algo Design & Analysis	0.50	95	A+	C+
MAT247H1	Algebra II	0.50	100	A+	B
MAT257Y1	Analysis II	1.00	97	A+	B+

Credits earned: 3.00

2021 FALL - BACHELOR'S DEGREE PROGRAM - TRINITY COLLEGE
SESSIONAL GPA: **4.00**   CUMULATIVE GPA: **4.00**

CRS CODE	TITLE	WGT	MRK	GRD	CRS AVG
BCH210H1	Biochemistry I	0.50	90	A+	B
CSC311H1	Intro Machine Learning	0.50	98	A+	B+
CSC498H5	Topics in Computer Science	0.50	96	A+	
	Intro to Reinforcement Learning				
MAT1841H1	Mathematics of Massive Data Analysis:	0.50	89	A	
	Fundamentals and Applications				
MAT327H1	Intro to Topology	0.50	99	A+	B+

Credits earned: 2.50

2022 WINTER - BACHELOR'S DEGREE PROGRAM - TRINITY COLLEGE
SESSIONAL GPA: **4.00**   ANNUAL GPA: **4.00**   CUMULATIVE GPA: **4.00**
STATUS: **IN GOOD STANDING**

CRS CODE	TITLE	WGT	MRK	GRD	CRS AVG
APM462H1	Nonlinear Optimization	0.50	98	A+	C-
CSC412H1	Uncertainty & Learng	0.50	96	A+	B+
CSC413H1	Neural Nets and Deep Learning	0.50	99	A+	A-
CSC420H5	Introduction to Image Understanding	0.50	100	A+	B+
MAT357H1	Real Analysis I	0.50	98	A+	B

Credits earned: 2.50

2022 FALL - BACHELOR'S DEGREE PROGRAM - TRINITY COLLEGE
SESSIONAL GPA: **4.00**   CUMULATIVE GPA: **4.00**

CRS CODE	TITLE	WGT	MRK	GRD	CRS AVG
CSC494H1	Project in CSC	0.50	100	A+	
	3D structure determination by inferring				
	signed from unsigned xyz coordinates				
	[Supervised by A. Guzik]				
PEY200Y1	Pro Experience Year	0.00		IPR	

Credits earned: 0.50

2023 WINTER - BACHELOR'S DEGREE PROGRAM - TRINITY COLLEGE
STATUS: **IN GOOD STANDING**

CRS CODE	TITLE	WGT	MRK	GRD	CRS AVG
PEY200Y1	Pro Experience Year	0.00		CR	

Credits earned: 0.00

2023 SUMMER - BACHELOR'S DEGREE PROGRAM - TRINITY COLLEGE

NAME: **Lo, Alston Lon Hang**

ISSUED TO: Alston Lo

RECORD AS OF: 2024-07-24
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BIRTH DAY/MONTH: 29/11

CRS CODE	TITLE	WGT	MRK	GRD	CRS AVG
PHL245H1	Mod Symbolic Logic	0.50		CR	B-

Credits earned: 0.50

2023 FALL - BACHELOR'S DEGREE PROGRAM - TRINITY COLLEGE
SESSIONAL GPA: **4.00**   CUMULATIVE GPA: **4.00**

CRS CODE	TITLE	WGT	MRK	GRD	CRS AVG
CSC495H1	Project in CSC	0.50	98	A+	
	Fast and accurate organic crystal structure prediction with diffusion models Supervised by <A.Aspuru-Guzik>				
MGY441H1	Bioinformatics	0.50	99	A+	B+

Credits earned: 1.00

2024 WINTER - BACHELOR'S DEGREE PROGRAM - TRINITY COLLEGE
SESSIONAL GPA: **4.00**   ANNUAL GPA: **4.00**   CUMULATIVE GPA: **4.00**
STATUS: **IN GOOD STANDING**

CRS CODE	TITLE	WGT	MRK	GRD	CRS AVG
CSC300H1	Computers & Society	0.50		CR	A-
CSC369H1	Operating Systems	0.50	94	A+	B
MAT367H1	Differential Geometry	0.50		CR	C+

Credits earned: 1.50

Angelique Saweczko
University Registrar

—————— **End of Transcript** ——————

HH (High Honours), **H** (Honours), **P** (Pass), **LP** (Low Pass), **F** (Fail)
The Faculty of Law J.D. program used the following grade scale between Fall-1998 and Fall-2012:
A:80-100 (Excellent); B+:75-79 (Good); B:70-74 (Good); C+:65-69 (Adequate);
C:60-64 (Adequate); D:50-59 (Marginal); F:below 50 (Inadequate).
In cases where the FL grade is used in calculating grade point averages, the symbol FL% is used and a grade point value of 0.0 is assigned.
CR (Credit), **NCR** (No Credit).
In cases where the NCR grade is used in calculating grade point averages, the symbol NC% is used and a grade point value of 0.0 is assigned.

Other Symbols and Notations:

ADD   Additional course, taken for credit. Included in grade point averages.
(note: the following symbols are not used in calculating grade point averages.)
AEG   Aegrotat standing granted on the basis of term work and medical or similar evidence. Course credit granted.
DNW   Did not write/did not attend/did little work.
EXT   Extra course, not for credit.
GWR   Grade withheld pending review.
INC   Incomplete.
IPR   In progress.
(IPR will also appear if the course has not yet started or the course has finished but an approved grade is not yet available.)
LWD   Late withdrawal without academic penalty.
NGA   No grade available.
SDF   Standing deferred on the basis of incomplete course work because of medical or similar reasons.
WDR   Withdrawn without academic penalty.
XMP   Exemption granted on the basis of credit for work done elsewhere. Course credit granted.
Candidacy Achieved
A student who has completed all program requirements for the PhD degree exclusive of thesis research will be considered a candidate in the School of Graduate Studies.

Averages Information:

The following types of averages may appear:
GPA   Grade Point Average*
(*for CTEP programs, the GPA does not include performance in B.Ed. Courses)
ACCA   GPA on the Academic Activity Component of the Bachelor of Physical Health and Education
CICA   GPA on the Curriculum and Instruction Component of the Bachelor of Education and Diploma in Technical Education
CTPA   GPA on the Bachelor of Education Activity Component of the Concurrent Teacher Education Program
FNCA   GPA on Foundations Component of the Bachelor of Education and Diploma in Technical Education
PACA   GPA on the Physical Activity Component of the Bachelor of Physical and Health Education
PERS   Percentage Average
ACCUM. AVG
Accumulated Average

Awards Information:
Academic awards information is not listed on University of Toronto transcripts.
Academic Sessions:
Fall Session (September – December)
Winter Session (January – April)
Summer Session (May – August)
Course Credits:
A course with a weight of 1.00 equals 6 semester hours.
Course Average:
Course average is shown for undergraduate courses with a size of 12 or more and is expressed as a letter grade correspondingto the refined letter grade scale. The symbol "*" is used to indicate an undergraduate course with fewer than 12 students. A"blank" is used to indicate that a course average has not been calculated.

University of Toronto
Guide to Transcript

Effective September 1998

Grade Meanings	Undergraduate Grade Scale		Grade Point Value	Graduate Grade Scale	
	Refined Letter Grade Scale	Numerical Scale of Marks		Truncated Letter Grade Scale	Numerical Scale of Marks
Excellent	A+	90 – 100%	4.0	A+	90 – 100%
	A	85 – 89%	4.0	A	85 – 89%
	A-	80 – 84%	3.7	A-	80 – 84%
Good	B+	77 – 79%	3.3	B+	77 – 79%
	B	73 – 76%	3.0	B	73 – 76%
	B-	70 – 72%	2.7	B-	70 – 72%
Adequate	C+	67 – 69%	2.3		
	C	63 – 66%	2.0		
	C-	60 – 62%	1.7		
Marginal	D+	57 – 59%	1.3		
	D	53 – 56%	1.0		
	D-	50 – 52%	0.7		
Inadequate	F	0 – 49%	0.0	FZ	0 – 69%

Approved grade scales that are outside the standard system:
A passing mark in the Faculty of Dentistry, Faculty of Medicine, and the Faculty of Nursing is 60%.
H (Honours), **P** (Pass), **FL** (Failure).

—————— **End of Guide** ——————