

Gary L. Hutchins
Assistant Dean and Graduate Registrar

6062 Wentworth Hall · Room 304 Hanover, New Hampshire 03755-3526

> Telephone: 603/646-2106 Fax: 603/646-8762 Gary.L.Hutchins.edu

This official transcript has been transmitted electronically and is intended solely for use by the recipient.

| \mathbf{r} | • | • | |
|--------------|------|-----|-------|
| 1, | ecip | 101 | . + • |
| к | | 161 | |
| | | | |

Student:

How to authenticate this official transcript from Graduate Studies at Dartmouth

This official transcript has been transmitted electronically to the recipient, and is intended solely for use by that recipient. If you are not the intended recipient, please notify the Graduate Registrar at the Office of Graduate Studies, Dartmouth College. 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.

This official transcript has been digitally signed and therefore contains special characteristics. If this document has been issued by Dartmouth College, and for optimal results, we recommend that this document is viewed with the latest version of Adobe® Acrobat or Adobe® Reader; it will reveal a digital certificate that has been applied to the transcript. 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 Dartmouth College with a valid certificate issued by GeoTrust CA for Adobe®. This document certification can be validated by clicking on the Signature Properties of the document.



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



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.



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 transcript key and guide to transcript evaluation is the last page of this document.

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

If you require further information regarding the authenticity of this transcript, you may email the Graduate Studies Office at Graduate.Studies@Dartmouth.EDU or call 603-646-2106.

This certifies that Qian Han was admitted to Dartmouth College in Fall Term 2016 as a Graduate student.

Major: Computer Science

| Term | Course | Course Title | Gr. | CC. |
|------|-----------|--------------------------|-----|-----|
| | COSC170 | Num. & Computational Too | Р | 1 |
| 16F | COSC189.4 | Research Topics in HCI | Р | 1 |
| | COSC296 | Supervised UG Teaching | Р | 1 |
| | COSC297 | Graduate Research | HP | 1 |
| | COSC165 | Smartphone Programming | Р | 1 |
| 17W | COSC296 | Supervised UG Teaching | Р | 1 |
| | COSC297 | Graduate Research | Р | 1 |
| | COSC167 | Human-Computer Interacti | Р | 1 |
| 17S | COSC296 | Supervised UG Teaching | Р | 1 |
| | COSC297 | Graduate Research | Р | 1 |
| | COSC149 | Randomized Algorithms | Р | 1 |
| 17F | COSC174 | Machine Lrng&Stat Analys | Р | 1 |
| | COSC297 | Graduate Research | HP | 1 |
| 18W | COSC031 | Algorithms | В | 0 |
| 1044 | COSC298 | Thesis Research | HP | 2 |
| 18S | COSC299 | Full Time Thesis Researc | HP | 3 |
| 18X | COSC299 | Full Time Thesis Researc | HP | 3 |
| 405 | COSC058 | Operating Systems | B+ | 0 |
| 18F | COSC299 | Full Time Thesis Researc | HP | 3 |
| 19W | COSC231 | Advanced Algorithms | Р | 1 |
| 1900 | COSC299 | Full Time Thesis Researc | HP | 3 |
| 400 | COSC258 | Advanced Operating Syste | Р | 1 |
| 198 | COSC299 | Full Time Thesis Researc | HP | 3 |
| 19X | COSC299 | Full Time Thesis Researc | HP | 3 |
| | COSC299 | Full Time Thesis Researc | | |

Dartmouth Hall, built 1784



Statement of Credits

All courses are in the form of course units. In 2018 the course count unit was adjusted to better reflect actual equivalency. Each course count unit may be considered the equivalent of a semester course worth 3.5 semester hours (4.5 if a laboratory course) or 5 quarter hours (6.7 if a laboratory course).

The normal course load is three but, within specified limits, loads of two or four courses are allowed. Terms are identified by the last two digits of the calendar year followed by F for Fall, W for Winter, S for Spring, X for Summer.

COURSE NUMBERING AND LEVEL

| 1-9 | Primarily Introductory Level Courses |
|---------|--|
| 10-79 | Primarily General Course Offerings |
| | , |
| 80-89 | Certain Special Types of Courses |
| 90-99 | Certain Advanced Undergraduate Major Courses |
| 100-299 | Graduate Level Courses |

EXPLANATION OF GRADUATE RECORD

| HP | High Pass | Superior Quality |
|----|-----------|---|
| Р | Pass | Good Quality |
| LP | Low Pass | Acceptable Quality |
| NC | No Credit | Work that is not acceptable for graduate credit |
| | | |
| CT | Credit | |

The CT grade denotes Satisfactory work in certain courses, such as research courses, that assignment of a grade of HP, P and LP is considered inappropriate. The grade of CT is not intended as a routine alternative to the HP, P, LP system. CT is the *only* passing grade in a course in which it is used.

Graduate students enrolled in undergraduate courses which do not count for graduate credit are graded on the undergraduate grading system:

GRADES AND POINTS

| Α | 4 |
|----|-------|
| A- | 3 2/3 |
| B+ | 3 1/3 |
| В | 3 |
| B- | 2 2/3 |
| C+ | 2 1/3 |
| С | 2 |
| C- | 1 2/3 |
| D | 1 |
| Ε | 0 |

OTHER DESIGNATIONS

| AD | Administrative Delay - Temporary Designation |
|----|--|
| 1 | Incomplete - Temporary Designation |
| ON | On-going Course – Temporary Designation |
| TR | Transferred Course |
| W | Withdrawn from Course |
| * | Citation |

TO TEST FOR AUTHENTICITY: The face of this transcript is printed on green SCRIP-SAFE paper.

ADDITIONAL TESTS: When photocopied, a latent security statement containing the institutional name and the words COPY COPY COPY appear over the face of the entire document. When this paper is touched by fresh liquid bleach, an authentic document will stain. A black and white or color copy of this document is not an original and should not be accepted as an official institutional document. This document cannot be released to a third party without the written consent of the student. This is in accordance with the Family Rights and privacy Act of 1974. If you have any questions about this document, please contact our office at (603) 646-2246. ALTERATION OF THIS DOCUMENT MAY BE A CRIMINAL OFFENSE!