

## How to Authenticate This Official PDF Transcript

This official PDF transcript has been transmitted electronically to the recipient, and is intended solely for use by that recipient. 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. This document will reveal a digital certificate that has been applied to the transcript, and for optimal results, we recommend that this document is viewed with the latest version of Adobe® Acrobat or Adobe® Reader. 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 Parchment, with a valid certificate issued by GlobalSign CA for Adobe®. This document certification can be validated by clicking on the Signature Properties of the document.



**The Blue Ribbon Symbol:** The blue ribbon is your assurance that the digital certificate is valid, the document is authentic, and the contents of the transcript have not been altered.



**Invalid:** 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.



**Author Unknown:** 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 current version of Adobe® Reader is free of charge, and available for immediate download at <http://www.adobe.com>.

**ABOUT PARCHMENT:** Parchment is an academic credential management company, specializing in delivery of official electronic credentials. As a trusted intermediary, all documents delivered via Parchment are verified and secure.

Learn more about Parchment at [www.parchment.com](http://www.parchment.com)



Student No: 917859282

Date Issued: 25-DEC-2021

Record of: Edward Bingham

Page: 1

Issued To: Edward Bingham

Parchment DocumentID: 37227625

Date Entered: Spring 2017

School : Graduate School of Arts &amp; Sci

Major : Computer Science

Adviser : R. Manohar

SUBJ NO.	COURSE TITLE	CRED	GRD	INSTRUCTOR
----------	--------------	------	-----	------------

Spring 2017

DISR 999 Diss Research - in Residence 0.00 CR

Exchng scholar from Cornell Univ.

Fall 2017

DISR 999 Diss Research - in Residence 0.00 CR

Spring 2018

DISR 999 Diss Research - in Residence 0.00 CR

Fall 2018

DISR 999 Diss Research - in Residence 0.00 CR

Exchng scholar from Cornell Univ.

Spring 2019

VAIR 999 Visiting Assistant in Research 0.00 CR

Exchng scholar from Cornell Univ.

Fall 2019

DISR 999 Diss Research - in Residence 0.00 CR

Exchng scholar from Cornell Univ.

Spring 2020

DISR 999 Diss Research - in Residence 0.00 CR

Exchng scholar from Cornell Univ.

Due to the COVID-19 pandemic, students were given the option to have their courses marked Sat/Unsat rather than be graded under the standard policy.

Fall 2020

DISR 999 Diss Research - in Residence 0.00 CR

Exchng scholar from Cornell Univ.

\*\*\*\*\* END OF TRANSCRIPT \*\*\*\*\*



# Yale University

OFFICE OF THE UNIVERSITY REGISTRAR · POST OFFICE BOX 208321 · NEW HAVEN, CONNECTICUT 06520-8321 · (203) 432-2330

*The Graduate School of Arts and Sciences is the division of Yale University that awards advanced, post-baccalaureate degrees (Master of Arts, Master of Science, Master of Philosophy, and Doctor of Philosophy). This document is a transcript of the student's graduate record at Yale. Yale University is accredited by the New England Association of Schools and Colleges. Federal law prohibits release of information from this transcript to a third party without the express written consent of the student.*

## GRADING SYSTEM

*The Graduate School of Arts and Sciences does not calculate grade-point averages nor does it assign numerical or letter equivalents to the marks designated above.*

Grades assigned in the Graduate School of Arts and Sciences are as follows:

H	Honors
HP	High Pass
P	Pass
F	Fail
Sat	Satisfactory (see below*)
Unsat	Unsatisfactory (see below*)
I or INC	Incomplete (course not completed at end of term)
W	Withdrew from course
Credit/No Credit	Credit/No Credit granted for course

\* Grades of Sat (Satisfactory) and Unsat (Unsatisfactory) may be assigned if all of the students enrolled in the course are so graded.

*The following marks may also appear on some transcripts:*

Aud	Audit
FY	Temporary grade for a full-year course that is not yet completed
NA	Audit not fulfilled; requirements for an Audited course not satisfied
NM	No Mark Submitted
TI	Temporary Incomplete for a course that is expected to be completed

## COURSE NUMBERING

Graduate courses are numbered 100 and above through the Spring term of 1977. Beginning with the Fall term of 1977, courses are numbered 500 and above. The letters "a" or "b" following a course number indicate a first-term (fall) or second-term (spring) course, respectively. Courses with no alphabetic suffix are year-long offerings and extend through both the fall and spring terms. Undergraduate courses taken in Yale College through the Spring term of 1977 bear two-digit numbers (10-99). Beginning with the Fall term of 1977 and thereafter, Yale College courses are numbered from 100 through 499.

## COURSES TAKEN IN OTHER SCHOOLS OF YALE UNIVERSITY

With the approval of the student's academic department, advanced courses offered through other schools of the University may be taken for credit toward the Graduate School degree. Undergraduate courses recorded prior to the 1972-1973 academic year provided graduate credit only if marked "for graduate credit." As of September 1972, this distinction was no longer made.

Grades for courses taken through other schools of Yale University are recorded according to the grading systems in place at the respective schools.

## TRANSFER CREDIT

The Graduate School of Arts and Sciences does not award transfer credit for graduate work completed before matriculation. A department may, however, with the approval of the Graduate School, waive a portion of the Ph.D. course requirement in recognition of previous graduate-level work completed at Yale University or elsewhere. Courses taken elsewhere will not appear on the student's Graduate School transcript. Also with the approval of the department, a student who is currently enrolled in the Graduate School may petition for advanced standing of up to one year for work completed in a Yale professional master's program or doctoral program that is relevant to the student's Ph.D. program.

## TEACHING FELLOW PROGRAM PARTICIPANT

Training in teaching is an essential part of students' academic programs and professional preparation and therefore appears on the transcript. **For students who were enrolled in the Graduate School in the spring of 2003 or later, all teaching assistantships are included on the transcript.** Each assistantship is listed under the semester in which it was completed. When students serve as discussion or lab section leaders or graders, the name of the faculty member teaching the course appears in the right-hand column. Students listed as part-time acting instructors are responsible for one section of an introductory course or an independent seminar.

## OFFICIAL RECORD

A transcript without the signature of the University Registrar is to be considered only as a statement of the student's academic progress toward the degree and is not to be considered as an official document.