

Yutong (Daisy) He

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EDUCATION

Northeastern University, Boston, MA **Sept 2021 – Present**

MS in Computer Science Candidate, GPA: 4.00/4.00

Related Courses: Data Structures, Algorithms, Computer Systems, Object-Oriented Design, Discrete Structure

New York University, New York, NY **May 2015**

MA in Teaching Foreign Language (Mandarin) and TESOL, GPA: 4.00/4.00

Beijing Normal University, Beijing, China **July 2013**

BA in Chinese Language & Literature, GPA: 3.69/4.00

TECHNICAL KNOWLEDGE

Languages: Python, Java, C **Database:** SQL **Web Technologies:** HTML, CSS, JavaScript

PROJECTS

Using NLP/Machine Learning for Bibliography Parsing **Jan 2022 – Apr 2022**

XN Rising Project Spring 2022, Northeastern University

- Created regular expressions parsing tools in Python for APA and MLA reference styles.
- Wrote tests for regular expression parsing tools on 30K references from PubMed dataset.
- Collaborated with teammates to combine regular expression parsing tools with CERMINE and improved accuracy rates of bibliography parsing in all reference fields.

Shape Photo Album (with Swing GUI) **Apr 2022**

Course Project, Northeastern University

- Designed a photo album application in Java with multiple classes for users to view pictures through both GUI and web with the Model-View-Controller architecture.
- Wrote JUnit tests for each class to test functionality of the program.

Loan Calculator & Record **Sept 2021**

Personal Project

- Designed a web-based application using JavaScript, Python, and SQL to keep records of home loans and auto loans for each registered user and visualized monthly payment, repayment, and remaining balance, etc. in tables and plot charts using Matplotlib library.

WORK EXPERIENCE

Pelham Middle School & Pelham Memorial High School, Pelham, NY **Sept 2015 – June 2021**

Tenured Mandarin Teacher, Grades 6-12

- Founded and expanded the Mandarin program for grades 6-12 in Pelham Public School District.
- Designed curricula for seven consecutive Mandarin courses and taught in grades 6-12.
- Advised Mandarin Club in middle school and Asian Culture Club in high school.
- Established the Pelham Memorial High School Chapter of the National Chinese Honor Society.
- Organized class field trips, school-wide and community-wide events annually.

HONORS & AWARDS

The Outstanding Achievement Award for Excellence in Scholarship, New York University

May 2015

Beta Pi Chapter of Kappa Delta Pi International Honor Society in Education

PUBLICATION

1. He, Y. (2021). A Contrastive Study of the Use of Verbs and Nouns in Chinese and English Using a Corpus-based Approach. *Journal of Chinese Language Teaching and Research in the U.S.*, 2021, 77-84.

2. He, Y. (2021). A Story of the Chinese Character “Upright”. In Z. Liu (Ed.), *Tales of Teachers: Case Studies and Reflections from CFL Classroom in North America (Chinese Edition)* (pp. 38-41). Peking University Press.