

# Ming Zhang

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## EXPERIENCE

### Research Assistant Jun–Sep 2016

for **Low Resource Languages for Emergent Incidents**

Worked in the lab of Prof. Mitchell Marcus for the Exploiting Quantitative Universals for Unsupervised Acquisition of Language Structure (EQUUALS) Project as part of DARPA's Low Resource Languages for Emergent Incidents Program. Assisted in building a learner for language classification in **Python**; prepared corpus data for over 80 languages from Wikipedia XML dumps; evaluated grammar rules on the corpus

### Co-President Sep 2016–Present

of **Pling: Penn Undergrad Linguistics Society**

Re-establish weekly event “Linguistically Speaking”; promote events on social media; manage Facebook group with over 90 members; increase participation of general body; communicate with Penn Linguistics Department for funding and faculty speakers

### Web Developer & Video Editor Sep 2015–Present at **The Daily Pennsylvanian**

Build webpages for featured news stories and web templates for regular stories; maintain and improve the webpages based on statistics of usage; collect interview and b-roll footage on a weekly basis; create and manipulate graphics, film pieces, music, and special effects in a logical and attractive manner using Final Cut Pro

### Tutor Jan 2016–Present

for **CIS-160: Mathematical Foundations of Computer Science** and **CIS-120: Programming Languages and Techniques I**

Course materials include data types and data representation, test-driven development, programming patterns, functional programming, and object-oriented programming. Programming languages include **OCaml** and **Java**. Assisted students with study techniques

### Teaching Assistant Jan–Mar 2016

for **CIS-160: Mathematical Foundations of Computer Science**

Course materials include proof principles and logics, functions and relations; induction principles, combinatorics, probabilities, and graph theory. Held office hours to answer students' questions; wrote solutions to homework and exams; graded homework

### Volunteer Oct–Dec 2015

at **Mighty Writers: El Futuro**

Taught second-generation Hispanic and Spanish immigrant elementary school children to write in Spanish with correct grammar and logical structures in weekly workshops; replied to the children's letters in Spanish regularly

## EDUCATION

### University of Pennsylvania May 2019

Cumulative GPA **3.88** / 4

#### Dual Degree Program

B.A.S. in **Computer and Cognitive Science**, School of Engineering & Applied Science

B.A. in **Linguistics**, College of Arts and Sciences

## COURSEWORK

### Computer Science Related

Programming Languages and Techniques I

Programming Languages and Techniques II: Data Structures in Java

Mathematical Foundations of Computer Science

Introduction to Computer Architecture

iPhone Application Development

Automata, Computability, and Complexity

### Linguistics Related

Introduction to Linguistics

Sound Structure of Language

### Fall 2016 Courses

Discrete Probability, Stochastic Processes, and Statistical Inference

Introduction to Artificial Intelligence

Introduction to Syntax

Writing Systems

American Sign Language III

Gender and Society

## SKILLS & ABILITIES

### Languages

Native in Mandarin Chinese; fluent in German (CEFR German Level A2);

comprehensive in French (SAT French 720/800); basic American Sign

Language, Cantonese, Spanish, Russian, Latin, and Japanese

### Computer Related

Python, Java, HTML, CSS, JavaScript, PHP, MySQL, C, Assembly language,

Objective-C, Xcode, Haskell, OCaml, Git, Photoshop, Mathematica,  $\LaTeX$ ,

Final Cut Pro, Microsoft Office

## AWARDS

### Best Social Impact Hacking Prize Jan 2016

at **PennApps XIII**

with Web App “Foodship” at [www.foodship.me](http://www.foodship.me)

### Silver Medal Jul 2014

at **2014 International Linguistics Olympiad**

among top 9%

### 5th Place at Team Round Feb 2014

at **2014 Harvard-MIT Math Tournament**

out of 88 teams

THANKS FOR READING!