

Ming Zhang

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EXPERIENCE

Research Assistant Jun 2016–Present

for **Low Resource Languages for Emergent Incidents**

Work 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. Prepare corpus data for over 80 languages from Wikipedia XML dumps; experiment grammar rules on the corpus; help build a learner for language classification in Python

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

Tutoring 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. Coordinate with tutees to meet; help 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

Founder & Manager 2014

of **Instagram Account “das.wort”**

Founded an Instagram account at www.instagram.com/das.wort, with currently over 1400 followers, to help people learn German words and their usage in grammatical and cultural contexts

EDUCATION

University of Pennsylvania May 2019

Cumulative GPA **3.88 / 4**

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

B.A. in **Linguistics**, College of Arts and Sciences
in Computer and Cognitive Science: Artificial Intelligence Program

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
Artificial Intelligence
Introduction to Syntax
Writing Systems
Gender and Society

SKILLS & ABILITIES

Languages

Native in Mandarin Chinese; fluent in German (CEFR German Level A2); comprehensive in French (SAT French Test); basic American Sign Language, Cantonese, Spanish, Russian, Latin, and Japanese

Computer Related

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

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!