

CHRISTINA MA

Education

Carnegie Mellon University, Pittsburgh, PA

Sept. 2018-May 2022

B.S. in Cognitive Science | Minor in Computer Science and Design for Learning | QPA: 3.88/4.0

Courses: Educational Goal, Assessment, and Instruction; Introduction to Machine Learning

Research

Independent Study, VR Education Research

Jan. 2021-present

- Research on the integration of VR technology into interdisciplinary freshman seminar course
- Conducted a literature review, design the educational research and data collection protocols

Research Assistant, Cognitive Linguistics Lab

Sept. 2020-Dec. 2020

- Selected stimulus set, designed a counterbalanced experiment with PMI & log-likelihood scores to explore different semantic relations' influence on language production, and modeled it with a fully recurrent network using Lens
- Implemented a picture-naming typing online experiment using jspsych, psiTurk, and MTurk

Research Assistant, Cognitive Development Lab

Feb. 2019-Aug. 2020

- Helped a project on children's semantic acquisition, cleaned data from corpora (Common Crawl, Chldes, Wiki, TASA), calculated and analyzed statistical measures (GloVe, LSA, PMI), with some work under the auspices of a \$3500 fellowship
- Trained on social and behavioral research and helped lab tasks in detailed-oriented manner

Independent Study, Carnegie Museum of Art Website Research *Sept. 2019-May 2020*

- Received a \$500 SURG grant and IRB approval with proposal: *Improving Art Museums' Websites to Support Teachers and Parents — a Case Study of the Carnegie Museum of Art's Website*
- Designed rubrics, conducted a comparative analysis, a survey, and card sorting user interviews

Experience

Teaching Assistant, Principles of Functional Programming

Feb. 2021-present

- Co-lead lab sections, host office hours, and facilitate course communication for 20+ hrs/week
- Develop supplementary course materials and grade homework for the course of 150+ students
- Teach mathematical formalizations of code and parallel data structures with SMLNJ

Author, Operator, Individual Official WeChat Account

Jan. 2018-present

- Operated WeChat Account, received 3000+ followers and on average 1000+ views each article
- Wrote 80+ articles and made 20+ vlogs, shared by influential platforms with 20k+ views

Product Design Intern, Marketing Volunteer, ExpII, Inc.

Oct. 2018-July 2019

- Assisted user experience research for online math course and communicated with multiple teams
- Created marketing plans for online talks with 500+ audience and designed promotional materials
- Wrote about mathematic competitions and received average view of 1,000+ on each article

Leadership

President, VP of Communications, Project Advisor, Project Ignite *Nov. 2018-present*

- Innovate a remote operational mode and coordinate 7 teams of 70 students and advisors
- Recruited 50% more students, increased diversity, and expanded network with 5 more schools
- Collaborated to lead 5 high school students work on a machine learning topic for 10 workshops



+1 (412) 736-8371



qianoum@andrew.cmu.edu



<https://mqo00.github.io/>

Skills

Programming:

Python, C, SML, R, JavaScript,
HTML, CSS, Jekyll, Git, LaTeX

Natural Language:

Mandarin (native), English (fluent)

Research: SPSS, ELAN, jspsych

Design Tool:

Adobe (AE/PS/AU), CAD, Audacity

Productivity:

Apple iWork, Microsoft Office

Honors & Awards

First Place, College Prose,
20th Annual Martin Luther
King Jr. Writing Awards (2019)

Honorable Mention, "Visionary"
Photography Competition (2018)

Personal Interests

Traveling, Museum Visiting, Roller
Coaster Riding, Musical Theatre