



+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, jpspsych

### Design Tool:

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

## Relevant Coursework

<i>Design Educational Game</i>	S21
<i>Educational Goal, Assessment &amp; Instruction</i>	F20
<i>Intro to Machine Learning</i>	F20
<i>Human Learning &amp; Optimize</i>	S20
<i>Neural Correlates of Learning &amp; Memory</i>	S21
<i>Child Development Principles</i>	S19

## Grants & Fellowships

DC Honor	(\$6500)	2021
Travel Award	(\$250)	2021
SURF	(\$3500)	2020
SURG	(\$500)	2020
Ireland Fund	(\$1750)	2019

## Personal Interests

Traveling, Museum Visiting, Roller  
Coaster Riding, Musical Theatre

# 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: 3.89/4.0

## Research Experience

**Honor Thesis Project, Educational Game Design Support Research** *Mar. 2021-present*

- Conduct a quasi-experiment case study to investigate how the forms and presentation of learning science principles influence designer-teacher collaboration in educational game designs

**Independent Study, VR Education Research**

*Jan. 2021-present*

- Conduct a case study on integrating VR technologies into an interdisciplinary first-year seminar
- Collect and analyze data of student learning and perception of VR with descriptive coding method
- Submitted a work-in-progress paper and presented at the iLRN 2021 International Conference

**Research Assistant, Cognitive Linguistics Lab**

*Sept. 2020-Dec. 2020*

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

**Research Assistant, Cognitive Development Lab**

*Feb. 2019-Aug. 2020*

- Helped investigate word relations' influence on children's semantic acquisition; calculated and analyzed language statistics(GloVe, LSA, PMI) from corpus (Childes, Wiki, Common Crawl, TASA)
- Assisted lab tasks, coded PPVT scores, collected data from SpAM tasks with 3- to 5-year-olds

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

- Designed a case study to improve the information design of art museums' websites for educators
- Designed rubrics, conducted a comparative analysis, a survey, and card sorting user interviews

## Teaching & Service Experience

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

- Innovated virtual programming and coordinated 7 teams of 70 students and advisors (S21)
- Recruited 50% more students, increased diversity, and expanded network with 5 schools (S20)
- Collaborated to lead 5 high schoolers work on a machine learning topic for 10 workshops (S19)

**Teaching Assistant, Principles of Functional Programming**

*Feb. 2021-May 2021*

- Co-led lab sections of 20+ students, hosted office hours, and graded homework for 20 hrs/week
- Developed teaching materials and facilitated communication for the course of 300+ students

## Additional Experience

**Author, Operator, Individual Official WeChat Account**

*Jan. 2018-present*

- Operate WeChat Account generating 3,000+ followers and an average of 1,000+ views per article
- Wrote 80+ articles and made 20+ vlogs, shared by influential platforms with 20,000+ views

**Product Design Intern, Marketing Volunteer, Expil, Inc.**

*Oct. 2018-July 2019*

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