+1(412) 736-8371

qianoum@andrew.cmu.edu

https://mqo00.github.io/

Skills

Programming:
Python, C, SML, R, Go, JavaScript, HTML, CSS, React, Nools, Git, LaTeX

Natural Language:
Mandarin, English

Research:
SPSS, ELAN, Gorilla, Google Analytics

Design Tool:
Adobe (AE/PS/AU), Audacity, Figma
Cognitive Tutor Authoring Tools

Relevant Coursework

Personalized Online Learning	F21
Design Educational Game	S21
Educational Goal, Assessment & Instruction	F20
Intro to Machine Learning	F20
Human Learning & Optimize	S20
Neural Correlates of Learning & Memory	S21
Child Development Principles	S19

Awards & Fellowships

DC Honor	($6500)	2021
Travel Award	($250)	2021
SURF	($3500)	2020
SURG	($500)	2020
Ireland Fund	($1750)	2019
MLK Writing	1st Place	2019

Personal Interests

Museum Visiting, Roller Coaster Riding, Musical Theatre, Archery

CHRISTINA MA

Education

Carnegie Mellon University, Pittsburgh, PA   *Sept. 2018-May 2022*
B.S. in Cognitive Science | B.S. in Computer Science | Minor in Design for Learning | QPA: 3.91/4.0

Research Experience

Honor Thesis Project, CS 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 CS educational game designs
· Submitted a work-in-progress as the first-author at at 2021 CHI-Play Conference

Independent Study, VR Education Research   *Jan. 2021-present*
· Conducted a case study on integrating VR technologies into an interdisciplinary first-year seminar
· Analyzed data of student learning and perception of VR with descriptive coding method
· Published a work-in-progress as the first-author and presented at 2021 iLRN 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 jspsych, 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

Teaching Assistant, School of Computer Science   *Feb. 2021-present*
· Co-led recitations, developed teaching materials, facilitated communication, hosted office hours, and graded homework for undergrad CS classes of 300+ students for 10-20 hrs/week (S21, F21)
· Assisted teaching in a pre-college CS program for underrepresented communities (Summer 21)

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)

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, Expii, 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