Xiaoyi Tian

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EDUCATION

University of Florida	2020 - present
Ph.D. in Human-Centered Computing	*Gainesville, FL*
University of Pittsburgh	2018 - 2020
M.S. in Information Science	*Pittsburgh, PA*
Anhui University	2014 - 2018
B.Mgmt. in Management Science	*Hefei, China*

EXPERIENCE

Graduate Research Assistant | Advisor: Kristy Boyer — 08/2020 - present
LearnDialogue Lab, University of Florida — *Gainesville, FL*
- Developed web application of block-based programming environment using Blazor framework, C# and JavaScript
- Built Bayesian student models on student's trajectory solving programming tasks
- Provided effective and timely problem-solving hints and motivational support to STEM undergraduate students

Research Intern | Supervisors: Michael Madaio and Amy Ogan — 10/2019 - 07/2020
Human-Computer Interaction Institute, Carnegie Mellon University — *Pittsburgh, PA*
- Automated data collection for a child literacy system used by 500+ participants in Côte d'Ivoire over 8 months
- Created data pipelines from 30+ MYSQL database tables and monitored system usage using Python and R
- Visualized user curriculum progression of 8 units and 1,000+ weekly logs of learning actions using R Markdown
- Plotted children's learning curve of phonological awareness skills acquisition and modeled students using Bayesian Knowledge Tracing (BKT)

Research Assistant | Advisor: Erin Walker — 04/2019 - 05/2020
Facet Lab, University of Pittsburgh — *Pittsburgh, PA*
- Conducted qualitative research on long-term rapport management of middle school learners with a social robot
- Coded multiple-sessions human-robot dialogue on rapport strategies and dominance behaviors
- Utilized Independent Component Analysis (ICA) to model linguistic rapport components extracted from human coding and automated LIWC measurements
- Published two papers and presented the work in major artificial intelligence conferences (AIED and ACL)

PROJECTS

StudyBuddy: a Chatbot for Effective Study Habits | *Collaborative project (lead) at Pitt* — 09/2019 - present
- Utilized mix-method to investigate the feasibility of chatbots for study behavioral change of college students
- Formed design inquiry by interviewing with peer tutors and surveying freshmen
- Developed a chatbot prototype in Slack using DialogFlow and Slack API
- Evaluated the prototype through usability studies with both computer science students and faculty
- Organized research timelines and submitted drafts to top human-computer interaction conference (CSCW)

Social Media Attention and Organizational Fundraising | *Independent project at Pitt* — 01/2019 - 04/2019
- Performed quantitative analysis 414,312 Twitter posts of local non-profit organizations and their donations records
- Defined measurements of social media strategies and public attention
- Conducted negative-binomial regression analysis to understand relationships between social media strategies, public attention and donation gained

SKILLS

Programming Languages and Frameworks: Java, Python, C, VB, SQL, MATLAB, Blazor, React
User-Centered Research: Interview, survey, storyboard, persona, usability test, qualitative coding, content analysis
Statistical Analysis: R, SPSS, Stata

AWARDS AND HONORS

Outstanding Undergraduate Thesis (Top 1% in the Class), Anhui University	07/2018
Academic Excellence Scholarship, Anhui University	2015 & 2016 & 2017
'Merit Student', Anhui University	2015 & 2017