

# Xiaoyi Tian

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## EDUCATION

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

## EXPERIENCE

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<b>Graduate Research Assistant</b>   Advisor: Kristy Boyer <i>LearnDialogue Lab, University of Florida</i>	08/2020 - present Gainesville, FL
<ul style="list-style-type: none"><li>Developed web application of block-based programming environment using Blazor framework, C# and JavaScript</li><li>Built Bayesian student models on student's trajectory solving programming tasks</li><li>Provided effective and timely problem-solving hints and motivational support to STEM undergraduate students</li></ul>	
<b>Research Intern</b>   Supervisors: Michael Madaio and Amy Ogan <i>Human-Computer Interaction Institute, Carnegie Mellon University</i>	10/2019 - 07/2020 Pittsburgh, PA
<ul style="list-style-type: none"><li>Monitored system usage of a child literacy system used by 500+ participants in Côte d'Ivoire</li><li>Visualized user curriculum progression and learning performance of 8 curriculum units</li><li>Plotted children's learning curve of phonological awareness skills acquisition and modeled students using Bayesian Knowledge Tracing (BKT)</li></ul>	
<b>Research Assistant</b>   Advisor: Erin Walker <i>Facet Lab, University of Pittsburgh</i>	04/2019 - 05/2020 Pittsburgh, PA
<ul style="list-style-type: none"><li>Conducted qualitative research on long-term rapport management of middle school learners with a social robot</li><li>Coded multiple-sessions human-robot dialogue on rapport strategies and dominance behaviors</li><li>Utilized Independent Component Analysis (ICA) to model individual rapport behaviors</li><li>Published two papers and presented the work in major artificial intelligence conferences (AIED and ACL)</li></ul>	

## PROJECTS

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<b>StudyBuddy: a Chatbot for Effective Study Habits</b>   <i>Collaborative project (lead) at Pitt</i>	09/2019 - present
<ul style="list-style-type: none"><li>Utilized mix-method to investigate the feasibility of chatbots for study behavioral change of college students</li><li>Formed design inquiry by interviewing with peer tutors and surveying freshmen</li><li>Deployed the chatbot prototype in Slack, that provides domain-related and motivational support to students</li><li>Evaluated the prototype through usability studies with both computer science students and faculty</li><li>Organized research timelines and submitted drafts to top human-computer interaction conference (CSCW)</li></ul>	
<b>Social Media Attention and Organizational Fundraising</b>   <i>Independent project at Pitt</i>	01/2019 - 04/2019
<ul style="list-style-type: none"><li>Performed quantitative analysis 414,312 Twitter posts of local non-profit organizations and their donations records</li><li>Defined measurements of social media strategies and public attention</li><li>Conducted negative-binomial regression analysis to understand relationships between social media strategies, public attention and donation gained</li></ul>	

## SKILLS

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

## AWARDS AND HONORS

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