

ZIANG XIAO

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EDUCATION

University of Illinois at Urbana-Champaign

2016-2021(expected)

Ph.D Candidate in Computer Science; GPA: 4.00

Co-Advised by Prof. Hari Sundaram and Prof. Karrie Karahalios

University of Illinois at Urbana-Champaign

2012-2016

B.S. with Highest Distinction in Psychology and High Distinction in Statistics & Computer Science

PUBLICATIONS

- c9. **Xiao, Z.**, Zhou, M., Chen, W., Yang., H., Chi, C., *If I Hear You Correctly: Building and Evaluating Interview Chatbots with Active Listening Skills*. (Accepted by CHI '20)
- j3. **Xiao, Z.**, Zhou, M., Liao, V., Mark, G. Chi, C., Chen, W., Yang., H. *Tell Me About Yourself: Using an AI-Powered Chatbot to Conduct Conversational Surveys with Open-ended Questions*. (TOCHI Under Review)
- j2. **Xiao, Z.**, Wang, X., Ho, P., Karahalios, K. and Sundaram, H. 2019. *Should We Use an Abstract Comic Form to Persuade? Experiments with Online Charitable Donation*. In Proceedings of ACM Human-Computer Interaction, 3, CSCW, Article 75 (CSCW '19).
- c8. **Xiao, Z.**, Zuo, S., Zhao, J., Fu, W., Goldstein, M., Philpott, M., Laystorm-Woodard, J., Pool, M., Wolters, A., and Woodard, B. 2019. *Towards Understanding Interrelated Growth Mindset and Academic Participation & Performance*. In Proceedings of the 126th ASEE Annual Conference and Exposition (ASEE '19). Tampa, Florida.
- c7. **Xiao, Z.**, Zhou, M., and Fu, W. 2019. *Who Should Be My Teammates: Using A Conversational Agent to Understand Individual Difference and Help Teaming*. In Proceedings of the 24th International Conference on Intelligent User Interfaces (IUI '19).
- c6. Zhou, M. Chen, W. **Xiao, Z.**, Yang, H., Chi, T. and Williams, R. .2019. *Getting Virtually Personal: Chatbots Who Actively Listen to You and Infer Your Personality*. In Proceedings of the 24th International Conference on Intelligent User Interfaces Companion (IUI '19 Companion).
- j1. **Xiao, Z.***, Gao, M.* , Karahalios, K. and Fu, W. 2018. *To Label or Not to Label: The Effect of Stance and Credibility Labels on Readers' Selection and Perception of News Articles*. In Proceedings of ACM Human-Computer Interaction, 2, CSCW, Article 55 (CSCW '18).
- c5. **Xiao, Z.**, Wauck, H., Peng, Z., Ren, H., Zhang, L., Zuo, S., Yao, Y., and Fu, W. 2018. *Cubicle: An Adaptive Educational Gaming Platform for Training Spatial Visualization Skills*. In Proceedings of the 23rd International Conference on Intelligent User Interfaces (IUI '18).
- c4. Chiu, P., Wauck, H., **Xiao, Z.**, Yao, Y., and Fu, W. 2018. *Supporting Spatial Skills Learning with Gesture-based Embodied Design*. In Proceedings of the 23rd International Conference on Intelligent User Interfaces (IUI '18).
- c3. **Xiao, Z.**, Yao, Y., and Fu, W. 2018. *An Intelligent Educational Platform for Training Spatial Visualization Skills*. In Proceedings of the 23rd International Conference on Intelligent User Interfaces Companion (IUI '18 Companion).
- c2. **Xiao, Z.**, Yao, Y., Yen, C, Dey, S., Wauck, H., Leake, J., Woodard, B., Wolters, A., and Fu, W. 2017. *A Scalable Online Platform for Evaluating and Training Visuospatial Skills of Engineering Students*. In Proceedings of the 124th 2017 ASEE Annual Conference and Exposition (ASEE '17). Columbus, Ohio.

c1. Wauck, H., **Xiao, Z.**, Chiu, P., and Fu, W. 2017. Untangling the Relationship Between Spatial Skills, Game Features, and Gender in a Video Game. In Proceedings of the 22nd International Conference on Intelligent User Interfaces (IUI '17). ACM, New York, NY, USA, 125-136

t1. **Xiao, Z.** 2016. *Does Grammatically Gendered Language Have an Impact on Investors Behaviors? Companies with Grammatically Masculine Names Show More Stock Momentum Than Those with Grammatically Feminine Names.* Bachelor Thesis. University of Illinois, Champaign, United States.

*Indicates authors contribute equally to the work.

WORKING EXPERIENCE

Research Intern

Juji. Inc, Saratoga CA.

May 2019- Aug 2019

Advisor: Michelle X. Zhou & Huahai Yang

- Extracted semantic evidence from over 2000 real-world conversations to improve the personality inference engine.
- Studied and explored the research questions for using chatbot to conduct longitudinal studies in the field.
- Built a conversation-based recommendation system for book readers.

Research Intern

Juji. Inc, Saratoga CA.

May 2018- Aug 2018

Advisor: Michelle X. Zhou & Huahai Yang

- Built text analytic tool with symbolic and deep learning algorithm to summarize short-text conversation.
- Studied the strength and limitation of using chatbot to conduct conversational survey.
- Analyzed multiple conversation datasets to discover the relationship between human individuality and behavior.

RESEARCH EXPERIENCE

Research Assistant, Crowd Dynamics Lab

Computer Science Department, University of Illinois

June 2016-Present

Advisor: Hari Sundaram

- Investigating the persuasiveness of algorithmically synthesized comic-style messages in behavior adoption.
- Studying how the persuasive messages can build upon the effect of active social role in decision-making.
- Developing and evaluating a web/mobile research platform for conducting large scale field study.

Research Assistant, Cascade Lab

Computer Science Department, University of Illinois

Aug 2015-May 2019

Advisor: Wai-Tat Fu

- Developing and evaluating a scalable online platform for training spatial visualization skills
- Studying how conversational agents can help student teaming in real-world educational setting
- Creating and testing an educational game "Cubicle" for spatial visualization skill training

Research Assistant, Stanford Interventions Lab

Psychology Department, Stanford University

June 2015-May 2016

Advisor: Omid Fotuhi & Geoffrey Cohen

- Cleaned and coded massive dataset from Massive Open Online Courses (MOOCs)
- Designed analysis plan to test the effect of self-affirmation intervention on MOOCs dataset
- Conducted ANOVA test, Factor analysis, and Moderation test on the effect of mindsets on adolescent diabetes.

Research Assistant, Culture and Social Behavior Lab

Psychology Department, University of Illinois

Jan 2015-May 2016

Advisor: Dov Cohen

- Conducted research to investigate the impact of language on people's financial decisions
- Developed a stock market simulation program in R Language by adapting momentum trading strategy
- Designed experiments to test how grammatically gendered language affect peoples Designed experiments to test how grammatically gendered language affect people's financial decisions

PRESENTATIONS & TALKS

1. "A Scalable Online Platform for Evaluating and Training Visuospatial Skills of Engineering Students" at **Brown Bag Talk at College of Education**, University of Illinois at Urbana-Champaign Mar 2017
2. "Does Grammatically Gendered Language Have an Impact on Investors' Behaviors?" (Poster) at **Undergraduate Research Symposium**, University of Illinois at Urbana-Champaign Apr 2016
3. "*Longitudinal Associations between Self-Regulation and Mental Health across Early Childhood to Adolescence*" (Poster) at **16th Biennial Meeting of Society for Research on Adolescence** Baltimore, Md. Mar 2016
4. "Self-Regulation and Mental Health" (Poster) at **Undergraduate Research Symposium**, University of Illinois at Urbana-Champaign Apr 2015

ACADEMIC HONORS

Third Prize in China Collegiate Computing Contest Mobile Application Innovation Contest	Sept 2017
Harry Triandis Award	May 2016
James Scholar Preble Research Award	May 2016
James E. Spoor Scholarship	Aug 2015
James Scholar Preble Research Award	May 2015

SERVICE

ACM Transactions on Interactive Intelligent Systems (TiiS) Reviewer	2020
ACM CHI Reviewer	2020
ACM CSCW Reviewer	2019
ACM CHI PLAY Reviewer	2018, 2019
ACM IUI Reviewer	2017- 2020
ACM CHI Student Volunteer	2017

TEACHING EXPERIENCE

CS465 User Interface Design	Fa16, Sp17, Sp18, Sp19
CS225 Data Structure and Algorithms	Fa19

TECHNICAL AND RESEARCH SKILLS

Programing Language: Python; JavaScript; C++; HTML; MySQL

Statistics/Machine Learning Tools: R; TensorFlow; NLTK; Gensim

Research Methods: Lab/Field Experiment Design; Usability Evaluation; Text Analysis