

Lu Sun

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EDUCATION	UC San Diego , CA, United States PhD, Cognitive Science Department, The DesignLab <ul style="list-style-type: none">Advisor: Prof. Steven Dow Carnegie Mellon University(CMU) , PA, United States Masters of Educational Technology and Applied Learning Science (METALS) Human Computer Interaction Institute , School of Computer Science <ul style="list-style-type: none">Advisor: Prof. Robert E.Kraut, Prof. Kenneth R. Koedinger, Prof. Diyi Yang Beijing University of Posts and Telecommunications(BUPT) , Beijing, China Bachelor of Engineering in Telecommunication Engineering <ul style="list-style-type: none">Advisor: Prof. Wensheng Sun	2019 - present 2017 - 2018 2013 - 2017
PUBLICATIONS	<ul style="list-style-type: none">[1] Lu Sun, Robert E. Kraut, Diyi Yang “Multi-level Modeling of Social Roles in Online Micro-lending Platforms”<i>In Proceedings of The 22nd ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW’19)</i>[2] Kenneth Koedinger, Lu Sun, Elizabeth A. McLaughlin “Using a Hierarchical Model to Get the Best of Both Worlds: Good Prediction and Good Explanation”<i>In Proceedings of the 11th International Conference on Educational Data Mining pp.588-591 (EDM’18 Poster paper).</i>[3] Yuntao Wang, Ke Sun, Lu Sun, Chun Yu, and Yuanchun Shi. “SkinMotion: what does skin movement tell us?.”<i>In Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing: Adjunct, pp. 914-917. ACM, 2016. (UBICOMP’16 ADJUNCT).</i>	
PROFESSIONAL EXPERIENCE	Full-time Funded Research Assistant, CMU HCII Advisor: Prof. Bruce M. McLaren <ul style="list-style-type: none">Program an instructional software in Virtual Reality(VR) to support the instruction of manufacturing lab course for undergraduate students	Sep. 2018 - June. 2019
RESEARCH EXPERIENCE	Research Assistant, UCSD The DesignLab Advisor: Prof. Steven Dow Project: CrowdCivic: An Online Platform for Scaffolding the Crowd Feedback Exchange in Civic Design <ul style="list-style-type: none">Designing and developing a system to support feedback exchange in civic design challenge D4SD(Design for San Diego) Project: Understanding Discussion of Data Visualization on Newspaper Websites <ul style="list-style-type: none">Submitted the work to CSCW 2020 Independent Study, CMU HCII Advisor: Prof. Robert E.Kraut , Prof. Diyi Yang Project: Understanding Emergent Social Roles and Role Effectiveness in a Crowdfunding Site <ul style="list-style-type: none">Applied Gaussian Mixture Model to automatically generate emergent social rolesUtilized natural language processing techniques to extract featuresEvaluated social roles quantitatively and qualitatively using crowdsourcing	Jul. 2019 -Present Jan. 2018 - Sep. 2018

	Independent Study, LearnLab, CMU HCII Advisor: Prof. Kenneth R. Koedinger Project: Using a Hierarchical Model to analyze educational data <ul style="list-style-type: none"> Designed and implemented hierarchical mixed effect regression model to investigate the granularity of learning transfer Ran cross validation test on student-blocked and item-blocked data and visualized the student performance to find the overestimate data 	Oct. 2017 - Sep. 2018
	Research Intern, Articulab, CMU HCII Advisor: Prof. Justine Cassell and Prof. Zhen Bai Project: SCIPR (Sensing Curiosity in Play and Responding) , <ul style="list-style-type: none"> Designed hand gestures coding scheme Found sequential behavioral patterns that maximize curiosity using high utility sequential rules mining technique Designed and implemented a tangible interface system to support the physical collaboration between agent and children, utilizing augmented reality to visual the position and robot to manipulate the objects 	Jan. 2017 - May.2017
	Research Assistant , Pervasive HCI Group, Tsinghua University Advisor: Prof. Yuanchun Shi Project: SkinMotion <ul style="list-style-type: none"> Utilized the linear regression method to achieve an accuracy of 99.7% Achieved 5.84 estimate error for proximal phalanx flexion on average and low training burden with 4.63% accuracy increase with more than one training data 	Aug. 2015 - Aug. 2016
COURSE PROJECTS	Adaptive Learning System Design (Capstone Project) Client: Cross Domain Role: Data Analyst <ul style="list-style-type: none"> Designed and implemented the Bayesian Knowledge Tracing(BKT) in adaptive learning system to do question selection Analyzed and visualized student performance data in Chinese high school math learning Analyzed experiment results on learner's self-regulation ability and evaluated the adaptivity of system 	Jan.2018 - Aug.2018
	Exploration on Deep Knowledge Tracing Instructor: Prof. John Stamper <ul style="list-style-type: none"> Implemented a deep knowledge tracing model using Long Short Term Memory(LSTM) and compare the model with Bayesian Knowledge Tracing(BKT) on ASSISTments dataset 	Nov.2017 - Dec.2017
	MiniJS:Personalized Javascript Tutor for semi-novices Collaborator: Siyu Chen <ul style="list-style-type: none"> Implemented the cognitive tutor to help learners program javascript and use P5.js library Developed the targeted feedbacks and scaffolding hints for the tutoring system 	Mar.2018 - Apr.2018
	Online course design for UCRE <ul style="list-style-type: none"> Designed the online section 'Heuristic Evaluation' for 'User Centered Research Evaluation'(UCRE) course using backwards design, learning principles and cognitive task analysis Conducted the controlled user experiment and found 'self-explanation' instruction principle improved online learning 	Oct.2017 - Dec.2017
HONORS AND AWARDS	<ul style="list-style-type: none"> 1st Scholarship of Beijing University of Posts and Telecommunications 2nd of National Undergraduate Electronics Design Contest 	2014, 2015 2014
TECHNICAL SKILLS	Programming Languages:	

- Experienced: Python,R
- Familiar: HTML, JavaScript, JQuery, Node.JS, React,C#
- Experienced Tools: pyTorch