

Ruanqianqian (Lisa) Huang

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EDUCATION	University of California San Diego , La Jolla, CA	2020 - Present
	Ph.D. Student in Computer Science <i>Advisor:</i> Sorin Lerner	
	Wellesley College , Wellesley, MA	2016 - 2020
	B.A. (summa cum laude) in Computer Science (Honors) & Cognitive and Linguistic Sciences <i>Thesis:</i> The Design and Implementation of Venbrace, a Text Language for App Inventor	
TECHNICAL SKILLS	<i>Significant experience with:</i>	
	Programming Languages: Python, TypeScript, JavaScript, R, HTML/CSS, Scala Tools/Libraries: pandas, matplotlib, ggplot2, dplyr, ANTLR4, Node.JS, jQuery	
	<i>Moderate experience with:</i>	
	Programming Languages: Haskell, Java, MySQL, C, Racket, Standard ML Tools/Libraries: D3.js, PyDruid, Flask, Scikit-learn, NLTK	
RESEARCH EXPERIENCE	Graduate Student Researcher, Programming Systems Group, UC San Diego	2020.8 - Present
	<i>Advisor:</i> Sorin Lerner <i>Skills:</i> Live Programming, Program Synthesis, Large-scale User Studies, Qualitative Analysis * Designing, implementing and evaluating programming tools for novice programmers and software engineers.	
	Researcher, Department of Computer Science, Wellesley College	2019.1 - 2020.7
	<i>Advisor:</i> Franklyn Turbak <i>Skills:</i> Programming Language Design, Quantitative Analysis of User Interactions * Designed and developed Venbrace, a text language for App Inventor's visual coding blocks. * Implemented an HTML-embeddable, syntax highlighted editor for Venbrace that repairs malformed code. * Designed and executed online controlled experiments to evaluate the syntax of Venbrace. (Study Overview)	
	Undergraduate Research Assistant, HCI Lab, Wellesley College	2018.1 - 2018.10
	<i>Advisors:</i> Panagiotis Metaxas and Catherine Delcourt <i>Skills:</i> Data Visualization, Iterative Design * Implemented an interactive visualization for TwitterTrails, a platform for Tweet trustworthiness assessment. * Developed data cleaning and analysis scripts for TwitterTrails' database.	
RESEARCH ARTIFACTS	Ruanqianqian Huang , Kasra Ferdowsifard, Ana Selvaraj, Adalbert Gerald Soosai Raj, Sorin Lerner. Impact of Live Programming on Student Learning in a CS1 Course. <i>In preparation.</i>	
	Ruanqianqian Huang . 2020. <i>The Design and Implementation of Venbrace, a Text Language for App Inventor</i> . Bachelor's thesis. Wellesley College.	
	Ruanqianqian Huang and Franklyn Turbak. 2019. A Design for Bidirectional Conversion between Blocks and Text for App Inventor. In <i>2019 IEEE Blocks and Beyond Workshop (B&B)</i> , Memphis, TN, USA, 2019, pp. 87-89.	
TALKS	Programming with Live Programming	Apr. 2021
	Programming Systems Group, UC San Diego, La Jolla, CA	
	The Design and Implementation of Venbrace, a Text Language for App Inventor	May 2020
	App Inventor Team, Massachusetts Institute of Technology, Cambridge, MA	
	Bidirectional Conversion between Blocks and Text for App Inventor	Aug. 2019
	MIT App Inventor Summit, Cambridge, MA	
	Interactive Visualizations and Credibility Evaluations of News Stories on TwitterTrails	Aug. 2018
	Wellesley College Summer Research Program, Wellesley, MA	

INDUSTRY EXPERIENCE	Data Analysis Intern, Cloud Infrastructure, Apple Inc. , Cupertino, CA	2019.5 - 2019.8
	<ul style="list-style-type: none"> * Forecast future fleet changes to optimize hardware resource allocation with 88.38% accuracy. * Automated a recurring manual report for Finance by improving the API for search queries. 	
	Software Engineering Intern, NLP Lab, Avatar Works , Xiamen, Fujian, China	2017.6 - 2017.7
	<ul style="list-style-type: none"> * Assisted with chat bot development by processing and analyzing Chinese textual data using NLTK. 	
TEACHING EXPERIENCE	Tutor, Principles of Programming Languages, Wellesley College	Fall 2019
	<ul style="list-style-type: none"> * Moderated discussions and helped students debug their homework assignments in office hours. 	
	Tutor, Data Structures, Wellesley College	Spring 2018, Fall 2018
	<ul style="list-style-type: none"> * Moderated discussions and helped students debug their homework assignments in office hours. * Delivered individual tutoring sessions on a per request basis. * Assisted instructors in grading homework assignments. 	
HONORS	Student Scholarship for PLMW , POPL 2021	2021
	Trustee Scholar , Wellesley College	2020
	Academic Achievement Award in Computer Science , Wellesley College	2020
	Sigma Xi Honors Research Society , Wellesley College	2020
	Jerome A. Schiff Fellowship , Wellesley College	2019
	Phi Beta Kappa Honor Society (elected as a junior), Wellesley College	2019
	Wellesley College Science Center Research Award	2018
	Wellesley College Music Department Sandra Wieland Howe Scholarship	2017
SERVICE	Executive Board Member, Wellesley College Chamber Music Society	2017.9 - 2020.5
	Club Facilitator and TA, Girls Who Code Club (Wellesley, MA)	2017.9 - 2017.12
	Mentor, Harvard PBHA Chinatown Teen	2016.9 - 2017.5