

Ruanqianqian (Lisa) Huang

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EDUCATION	University of California San Diego, San Diego, CA Ph.D. Student in Computer Science and Engineering Advisor: Sorin Lerner	2020 - Present
	Wellesley College, Wellesley, MA B.A. (summa cum laude) in Computer Science (Honors) & Cognitive and Linguistic Sciences Thesis: The Design and Implementation of <i>Venbrace</i> , a Text Language for App Inventor	2016 - 2020
RESEARCH EXPERIENCE	Graduate Student Researcher, <i>UC San Diego Programming Systems Group</i> PI: Prof. Sorin Lerner * Design and implement live programming prototypes and evaluate through user studies.	2020.8 - Present
	Undergraduate Researcher, <i>Wellesley College TinkerBlocks Research Group</i> PI: Prof. Franklyn Turbak * Designed and developed <i>Venbrace</i> , a textual syntax that represents MIT App Inventor coding blocks. * Implemented an HTML-embeddable, syntax highlighted <i>Venbrace</i> editor that tracks user behavior. * Designed and executed user studies to evaluate the syntax of <i>Venbrace</i> . (Study Overview)	2019.1 - 2020.7
	Undergraduate Research Assistant, <i>Wellesley College HCI Lab</i> PIs: Prof. Panagiotis Metaxas and Prof. Catherine Delcourt * Implemented and maintained a user-centered interactive visualization for <i>TwitterTrails</i> using D3.js. * Developed scripts that read, purify, and analyze data from <i>TwitterTrails</i> 's database.	2018.1 - 2018.10
RESEARCH ARTIFACTS	R. Huang. "The Design and Implementation of <i>Venbrace</i> , a Text Language for App Inventor." Bachelor's thesis, Wellesley College, Wellesley, MA, May 2020.	
	R. Huang and F. Turbak. "A Design for Bidirectional Conversion between Blocks and Text for App Inventor." <i>2019 IEEE Blocks and Beyond Workshop (B&B)</i> , Memphis, TN, USA, 2019, pp. 87-89, doi: 10.1109/BB48857.2019.8941197.	
	R. Huang and F. Turbak. "Bidirectional Conversion between Blocks and Text for App Inventor." Poster presentation at the <i>MIT App Inventor Summit</i> , Cambridge, MA, Aug. 2019.	
	R. Huang*, B. Garcia*, C. Delcourt, P. Metaxas, and O. Shaer. "Interactive Visualizations and Credibility Evaluations of News Stories on TwitterTrails: A User-Centered Approach." Poster presentation at <i>Wellesley College Summer Research Program</i> , Wellesley, MA, Aug. 2018.	
INDUSTRY EXPERIENCE	Data Analysis Intern, <i>Apple Cloud Infrastructure</i> Apple Inc., Cupertino, CA * 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.	2019.5 - 2019.8
	Software Engineering Intern, <i>Natural Language Processing Lab</i> Avatar Works, Xiamen, Fujian, China * Assisted chat bot development by processing and analyzing Chinese textual data using NLTK.	2017.6 - 2017.7
TEACHING EXPERIENCE	Tutor, CS 251: Principles of Programming Languages	2019.9 - 2019.12
	Tutor, CS 230: Data Structures	2018.1 - 2018.12
	Club Facilitator and TA, Girls Who Code Club at Wellesley, MA	2017.9 - 2017.12

HONORS	Student Scholarship for PLMW at POPL 2021	2021
	Trustee Scholar (one of the four recipients of the graduating class), 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

COMMUNITY SERVICES	Wellesley College Chamber Music Society	Executive Board Member, 2017.9 - 2020.5
	Harvard PBHA Chinatown Teen	Mentor, 2016.9 - 2017.5

COMPUTER SKILLS	<i>Significant experience with:</i>	
	Programming Languages: Python, TypeScript, JavaScript, Haskell, Java, R, MySQL	
	Tools: jQuery, ANTLR, Pandas, NumPy, Plotly, matplotlib	
	Natural Languages: Mandarin (Native), Cantonese	
	<i>Moderate experience with:</i>	
	Programming Languages: C, Racket, Standard ML	
	Tools: D3.js, PyDruid, Flask, Scikit-learn, NLTK	
	Natural Languages: French	