

# ZIYUE (LIZ) LI

ziyueli3@illinois.edu | in/liziyue

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## EDUCATION

**University of Illinois - Urbana Champaign; Urbana, IL**  
*Master of Science, Electrical & Computer Engineering*  
*Bachelor of Science, Computer Engineering(with Honors)*

Expected Graduation Date: May 2021  
Degree Received: May 2019

### *Relevant Coursework:*

Analog/Digital/Multimedia Signal Processing, Random Processes, Distributed Systems, Communication Networks, Embedded Systems, Computer Security, Fault-Tolerant Digital Systems, Computer Organization & Design

## EXPERIENCE

**Google; Boulder, CO**

May 2019 - Aug 2019

### *Software Engineering Intern*

- Worked with Google's User Street View team to generate Street View images from videos taken with commercial cameras such as GoPro and mobile phones
- Processed metadata generated by cameras' GPS and IMU to bring user contributed content to similar quality as Street View images generated by specialized cameras
- Designed an efficient video processing framework for user Street View data that involved face/license plate detection and image blurring

**Google; New York, NY**

May 2018 - Aug 2018

### *Site Reliability Engineering Intern*

- Improved robustness of large-scale distributed system used by Google Maps by analyzing its architecture, identifying bottlenecks and experimenting with load testing environments
- Designed and implemented a scheduling algorithm to periodically measure the propagation latency of data changes from back ends to Google Maps users and achieved 16x improvement in accuracy
- Collaborated with teams in New York, Mountainview and Zurich to deliver above results

**University of Illinois - Urbana Champaign; Urbana, IL**

Aug 2019 - Present

### *ECE 220 Computer Systems and Programming Teaching Assistant*

- Teach laboratory sections for 80+ students to cover assembly language, C programming, basic data structures and algorithms
- Design weekly worksheets to reinforce lecture and lab materials
- Nominated for the Fall 2019 Harold Oleson Award for excellence in undergraduate teaching

## Publications

- Luc Paquette, Jaelyn Ocumpaugh, **Ziyue Li**, Alexandra Andres, Ryan Baker, "Who's learning? Using demographics in EDM research", Journal of Educational Data Mining 2020.
- **Ziyue Li**, Luc Paquette, "Automating the Engineering of Expert-Coded Features from Student Interaction Log Data", International Conference on Quantitative Ethnography 2019.