

# Grace Guo

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## Education

### Carnegie Mellon University

Bachelor of Science in Cognitive Science  
Additional Major in Human-computer Interaction  
QPA: 3.91, Dean's List High Honors

May 2018

## Experience

### Researcher, Meta-design Lab

Singapore University of Technology and Design, Singapore

Current

- Study the role of data visualizations in industry decision making and design tools to optimize visualizations for decision making
- Create a componentized Vue Graphics Grammar library as a foundation on which to develop these tools
- Adapt the grammar of graphics for the library to accommodate greater flexibility while maintaining code clarity
- Documentation: <https://spatialnetworkslab.github.io/docs-vue-graphics-grammar/>

### UX Researcher, macroinvertebrates.org

CMU Learning Media Learning Center, Pittsburgh, PA

Sep 2017  
- May 2018

- Conducted user research to improve macroinvertebrates.org such that citizen scientists using the site can bridge the expertise gap between novices and experts
- Performed quantitative and qualitative data analyses to understand expert versus novice practices when identifying specimens
- Created visualizations that model and communicate expert strategies when faced with uncertainty

### Research Assistant

CMU Memory Lab, Pittsburgh, PA

Sep 2015  
- May 2016

- Studied the relation between memory and expertise in pre-schoolers
- Helped design and pilot experiments
- Liaised with local schools to coordinate participants for study sessions

### Teaching Assistant, Fundamentals of Programming and CS

Carnegie Mellon University, Pittsburgh, PA

Jun 2016  
- Aug 2016

- Led recitations on Python programming
- Planned and conducted lectures on data-mining and HTML parsing in Python
- Mentored student capstone projects to provide guidance where needed

### Research Intern

Agency for Science, Technology and Research, Singapore

Jun 2015  
- Aug 2015

- Developed a Python program that learnt Instagram user interests from their images and recommended new content based on predicted interests
- Used data mining and Instagram API to gather training and testing data

## Skills

- Data mining, data analysis [Python 2/3]
- Front end development [Javascript, Vue, HTML and CSS]
- Design and prototyping [Adobe Suite, InVision]
- General Programming [C, SML]