

# Elizabeth Lee

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## Contact/Personal

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## Education

### **University of Rochester, Rochester, NY | 2017 - 2019**

Master of Science in Computational Linguistics

Thesis: "Towards an Improved Lexicon of Relational Nouns"

Coursework: *Natural Language Processing, Intro to Computational Linguistics, Machine Learning, Data Science for Linguistics, Logical Foundations of AI, Tools for Language Documentation, Intro to Semantic Analysis, Formal Semantics*

### **University of Florida, Gainesville, FL | 2012 - 2016**

Bachelor of Arts in Linguistics, Magna Cum Laude

Thesis: "The Effects of Segmentation on the Processing of Binomial Expressions"

Minor in East Asian Languages and Literatures: Japanese

Relevant coursework: *Applications of Discrete Structures, Programming for CIS Majors 1, Programming Fundamentals II, Second Language Acquisition, Psycholinguistics*

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## Interests

Natural language processing, software development, artificial intelligence, semantics, second-language acquisition

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## Work Experience

### **Research Engineer I, USC Information Sciences Institute | 2019 -**

- Collaborating on and using third-party tools to build semantic extraction systems
- Containerizing software and assembling those components into scientific workflows
- Developed web tools for annotation using Flask and Vue.js
- Wrote and edited scripts in Python, Kotlin, and Bash to extract and process annotation data
- Supervised and corresponded with annotators by guiding them through training, answering their questions, and monitoring their work hours

### **Linguistics Graduate Research Assistant, Quantitative Semantics Lab at UR | 2018 - 2019**

- Wrote and edited scripts primarily in Python to process large amounts of corpus data
- Collaborated with students in linguistics and computer science
- Used results of error analyses to find and fix issues in code and increased accuracy of generated data
- Implemented third-party code to add new features to datasets

### **Computer Science Graduate Research Assistant, TRIPS Lab at UR | Spring 2019**

- Assisted with NLP research by investigating experimental designs and results of projects regarding automated question generation

### **Teaching Assistant for Intro to Semantic Analysis, University of Rochester | Fall 2018**

- Helped students better understand the course and the material through electronic correspondence or one-on-one meetings
- Gave lectures when professor was away
- Graded course assignments

### **Laboratory Assistant, National High Magnetic Field Laboratory at FSU      Summer 2012, 2013**

- Prepared samples for microanalysis (polishing, ion milling, other miscellaneous tasks)
  - Edited images using Photoshop
  - Created slideshow presentations to present research findings
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## **Computer Skills**

### **Programming/Coding**

- Coded several small projects for coursework or personal use in **C++**, **Java**, **Lisp**, and **Python**
- Practiced **Haskell**, **MATLAB**, **MIPS**, **R**, **Ruby**, and **SQL** through coursework or self-study
- Created personal website from scratch with **HTML**, **CSS**, and **JavaScript** ([elizlee.github.io](http://elizlee.github.io))
- Wrote simple Android apps in **Kotlin**

### **Software/Misc.**

- Annotated and documented natural language data (Praat, ELAN, FLEx)
  - Used game engines to create simple games (RPG Maker, RenPy)
  - Created and edited videos (WMM, YouTube)
  - Edited audio files (Audacity, Melodyne)
  - Modeled virtual 3D objects (AutoCAD, SolidWorks, SketchUp)
  - Edited images and created digital art (Adobe Photoshop, PhotoScape, Krita, Paint.NET)
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## **Involvement**

### **Undergraduate Research Assistant, Brain and Language Lab at UF | 2015 - 2016**

- Researched and gathered materials for linguistics experiments
- Edited scripts in Python and R such that they were appropriate for use in different projects
- Ran a psycholinguistics experiment as the basis for an undergraduate thesis which was awarded with high honors
  - Gathered materials through COCA (Corpus of Contemporary American English)
  - Scheduled appointments with participants
  - Recorded and analyzed data using Microsoft Office, E-Prime, and RStudio

### **UF Computational Linguistics Club | 2015—2016**

- Learned how to use Python's NLP Toolkit (NLTK)

## **Japanese Club at UF | 2012—2016**

- Treasurer | 2015 – 2016
  - Kept track of club's budget and efficiently used funds
  - Organized the Spring Festival Fashion Show
- Creative Director | 2014 – 2015
  - Taught students how to make Japanese-themed crafts
  - Obtained and created decorations for club events
- Co-Dance Team Coordinator | 2013 -2014
  - Choreographed and taught Japanese dances for performances

## **Kakehashi Project (promoted by Japan's Ministry of Foreign Affairs) | December 2015**

- Selected to participate in a youth exchange program from a pool of applicants
  - Visited several locations in Japan, interacted with Japanese university students, and participated in homestay
  - Prepared slideshows for our school's presentations
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## **Projects**

### **“Positive anymore” project for Data Science for Linguistics (Spring 2018)**

- Worked with a team of three on a project regarding the use of positive anymore across geographic regions
- Extracted instances of positive anymore by web scraping from geographically associated subreddits

### **“A Study of Modern Spoken Tamil” for Tools for Language Documentation (Fall 2017)**

- Teamed up with two classmates and a native speaker of Tamil on a semester-long language documentation project
- Transcribed and annotated language data using Praat, ELAN, and FLEEx

### **“Class Escape” for Programming Fundamentals II (Fall 2014)**

- Collaborated with a team of five to create simple video game in C++
  - Compromised on development plans through the course of several in-person and Skype meetings
  - Introduced the team to SFML and ultimately used it in the game's development
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## **Publications**

Kametani, F., **Lee, E. G.**, Shen, T., Lee, P. J., Jiang, J., Hellstrom, E. E., and Larbalestier, D. C. **“An Explanation of How Split Melt Processing Can Enhance the Critical Current Density of Bi2212 Round Wires Based on Examination of Bubble Size and Density Formed in the Melt”** *Superconductor Science and Technology* 27, no. 5 (2014): 055004.

## **Foreign Languages**

### ***Japanese***

- Studied Japanese for six semesters
- Member of the Japanese National Honor Society - College Chapter (2016)
- Intermediate-level reading and speaking ability

### ***Mandarin Chinese***

- Studied Chinese for two semesters
- Elementary-level reading and speaking ability