

# **Elizabeth Lee**

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## **Contact/Personal**

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## **Education**

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

Master of Science in Computational Linguistics  
Expected graduation: Spring 2019

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

Bachelor of Arts in Linguistics, Magna Cum Laude, May 2016  
Thesis: "The Effects of Segmentation on the Processing of Binomial Expressions"  
Minor in East Asian Languages and Literatures: Japanese

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## **Interests**

Natural language processing, software development, machine learning, data analysis, semantics, second-language acquisition

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## **Work Experience**

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

- Writing and editing scripts primarily in Python to process large amounts of corpus data
- Collaborating with students in linguistics and computer science

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

### ***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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## **Relevant Coursework**

### ***Natural Language Processing - Fall 2018***

*Intro to Computational Linguistics - Fall 2018*

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### ***Machine Learning - Spring 2018***

- Learned and applied the mathematics behind classification, regression, and decision making
- Experimented with basic machine learning algorithms through Python scripts

### ***Data Science for Linguistics - Spring 2018***

- Explored, processed, and analyzed language data using Bash, Python, and R
- Applied skills learned in class towards several data analysis projects
  - Analyzed trends in baby names
  - Extracted examples of “positive anymore” usage by web scraping
  - Implemented clustering algorithms to find correlations between properties of nouns

### ***Logical Foundations of AI - Fall 2017***

- Learned foundational topics in artificial intelligence such as first-order logic, knowledge representation, and probabilistic inference
- Wrote programs in Lisp that accomplished tasks relevant in AI such as information storage and retrieval, relation manipulation, and planning

### ***Programming Fundamentals 1 & 2 - Spring 2013 / Fall 2014***

- Learned and applied basic concepts in programming with Java and C++ (classes and hierarchies, conditionals, loops, arrays, hashmaps, function calls, recursion, linked lists)
- Worked with a team to develop a simple video game in C++ employing SFML

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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)
- Made simple apps in Android Studio

### ***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, 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

## Elizabeth Lee

- Ran a psycholinguistics experiment
  - Gathered materials through COCA (Corpus of Contemporary American English)
  - Scheduled appointments with participants
  - Recorded and analyzed data using Microsoft Office, E-Prime, and R Studio

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

- Learned how to use Python's Natural Language Toolkit

### *UF Linguistics Society | 2014 - 2016*

### *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
- Wrote a blog about our experiences in Japan ([konnichiwigatordesu.tumblr.com](http://konnichiwigatordesu.tumblr.com))

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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.

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## Foreign Languages

### *Japanese*

- Studied Japanese for six semesters
- Member of the Japanese National Honor Society - College Chapter (2016)
- Elementary proficiency

### *Mandarin Chinese*

- Studied Chinese for two semesters
- Elementary proficiency