Elizabeth Lee

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Contact/Personal

Location	Rochester, NY
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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

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 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

Elizabeth Lee

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

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)

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)

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

- 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 (konnichiwagatordesu.tumblr.com)

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