

## **LING83600: Language Technology**

**Fall 2022**

**CUNY Graduate Center**

**Instructor:** Dr. Sarah Ita Levitan

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**Office hour:** TBD

**Class time:** Tuesdays, 11:45am - 1:45pm

**Location:** TBD

### **Course Description**

This course explores how computers process human language. It covers core problems in natural language processing and speech processing and presents algorithms for solving these problems. Topics include: language models, parsing, machine translation, word embeddings, and speech recognition. Students are expected to be comfortable programming in Python.

### **Learning Outcomes**

By the end of the course, the student will be able to:

- Understand how core language technology algorithms work
- Implement and use language technology
- Critically read and evaluate and evaluate research in speech and language technology

### **Textbook**

Speech and Language Processing, Jurafsky & Martin, 3rd edition

\*\*No need to purchase, we will provide links to chapters online:

<https://web.stanford.edu/~jurafsky/slp3/>

Readings will also be assigned from research papers throughout the semester.