

# JULIE KALLINI

*Curriculum Vitae (updated Sept 2022)*

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## EDUCATION

**Princeton University**, B.S.E. in Computer Science (*summa cum laude*), 2017 – 2021

Minor in Linguistics

**Thesis:** “A Corpus-based Analysis of Two-termed Coordination,” Advisor: Christiane Fellbaum

**CS Coursework:** Machine Translation, Theory of Algorithms, Theory of Computation, Networks, Functional Programming, Compilers, Computer System Design, Logic Design, Discrete Math

**Linguistics Coursework:** Phonology, Syntax, Morphology, Intonation, Historical/Comparative Linguistics, Language Universals/Diversity

## PUBLICATIONS

**Julie Kallini** and Christiane Fellbaum. 2022. Computational Approaches for Understanding Semantic Constraints on Two-termed Coordination Structures. In *Proceedings of the 25th International Conference on Text, Speech and Dialogue*, pages 64–76, Brno, Czech Republic. Lecture Notes in Computer Science, vol 13502. Springer.

**Julie Kallini** and Christiane Fellbaum. 2021. A Corpus-based Syntactic Analysis of Two-termed Unlike Coordination. In *Findings of the Association for Computational Linguistics: EMNLP 2021*, pages 3998–4008, Punta Cana, Dominican Republic. Association for Computational Linguistics.

## AWARDS AND HONORS

**Phi Beta Kappa**, Princeton University 2021  
Inducted with the top 10% of all graduating seniors.

**Phillip Goldman ’86 Senior Prize in Computer Science**, Princeton University 2021  
Highest honor awarded to the top student in the graduating computer science class.

**Outstanding Computer Science Senior Thesis Prize**, Princeton University 2021

**Outstanding Student Teaching Award**, Princeton University 2021

**Tau Beta Pi (Engineering Honor Society)**, Princeton University 2019  
Inducted junior year with the top 12% of engineering students.

## TEACHING

**Teaching Assistant**, Applied Machine Learning, CoRise **Feb 2022 – Present**  
Host several weekly office hours for ML students. Provide quality assurance for projects, which cover classification and regression tasks using various Python libraries.

**Head Teaching Assistant**, COS 401/TRA 301: Introduction to Machine Translation, Princeton University **Jan 2021 – May 2021**  
Designed Python coding exercises and handouts for students to complete during weekly hour-long practicum sessions. Taught and led discussions during these practicum sessions. Held office hours.

**Teaching Assistant**, COS 461: Computer Networks, Princeton University **Sep 2020 – Dec 2020**  
Led breakout groups during twice-weekly class sessions. Explained course material, solved example test problems, and facilitated discussions among students.

**Junior Independent Work**, COS IW04: Teaching Computer Science, Princeton University **Jan 2020 – May 2020**  
Designed *Stateful*, a tutoring web app for finite state machines and regular languages. Created online lessons and interactive practice problems on DFAs and NFAs. <https://stateful.herokuapp.com/>

**Lead Grader/Course Assistant**, COS 226: Algorithms and Data Structures, Princeton University **Sep 2018 – May 2019**  
Compiled and edited assignment/exam rubrics alongside instructors. Supervised other graders and course assistants during weekly grading meetings. Verified all graded assignments before release.

**Grader/Course Assistant**, COS 126: Introduction to Computer Science, Princeton University **Feb 2018 – May 2018**  
Attended weekly meetings to grade assignments, projects, and exams. Provided constructive feedback on the accuracy and quality of students' Java code.

## INDUSTRY EXPERIENCE

**Software Engineer**, Meta **Oct 2021 – Present**  
Full-time software engineer on the Ads Responsibility and Privacy team. Employ ML and content understanding techniques for topic detection in media across the Facebook family of apps.

**Software Engineer Intern**, Meta **May 2020 – Aug 2020**  
Built a tool to analyze data and manage how inappropriate content enters the human review system as a member of the Community Integrity Team. Worked with Hack (PHP), React, SQL, and Python.

**Software Engineer Intern**, Meta **Jun 2019 – Aug 2019**  
Trained in Android mobile development using Java. Conceptualized and built an Android application that organizes and streamlines office hours queues with a Facebook product team.

## VOLUNTEERING

### **AI Mentor**, Break Through Tech

Aug 2022 – Present

Mentor students from underrepresented backgrounds to pursue careers in data science, machine learning, and artificial intelligence.

### **Alumni Interview Volunteer**, Princeton University

Nov 2021 – Present

Conducted interviews with high school students applying to Princeton University on behalf of the Office of Undergraduate Admissions.

## SKILLS

### **Programming Languages**

- **Fluent:** Python, Java
- **Proficient:** C, OCaml, SQL, JavaScript, PHP, HTML/CSS
- **Familiar:** C#, Golang, MATLAB

### **Frameworks/Libraries**

- **ML/NLP:** PyTorch, Scikit, NumPy, Pandas, Matplotlib, SpaCy
- **Web Development:** React, Flask, Bootstrap, Presto

## ACTIVITIES

Princeton Women in Computer Science Member, Princeton University Mathematics Competition Volunteer, Princeton Computational Linguistics Society Member