

Jacob Salzberg

**PhD student in CS,
advised by Thomas
Wies**

Jacob Salzberg

6 Stuyvesant Oval
NY, NY 10009

910.583.0058
jssalzbe@nyu.edu

Skills

Programming Languages: *Python, Java, C, Lua, Rust, OCaml, Typescript, JavaScript, and others* (see [github](#))

Frameworks & Tools: Hibernate, Selenium, AngularJS, Spring, Cucumber, Jenkins, Travis, Coveralls, Valgrind, GDB, Libsnark, Git, Github

Experience

NYU / PhD Student

September 2021 - PRESENT, New York City, NY

First year PhD student, advised by Professor Thomas Wies. Focusing especially on Abstract Interpretation, a theory of sound static analysis of the semantics of programs, and Formal Methods.

Introductory Java, Introduction to Computing Environments / Teaching Assistant

January 2020 - July 2020, Raleigh, NC

Instructors: Dr. Suzanne Balik, Mr. Chris Brown and Ms. Toni-Ann Marini

Linting for Exponential Time Patterns in Rosie / Independent Researcher

June 2019 - August 2019, Raleigh, NC

Advised by Dr. Jamie Jennings, I developed a [lint library](#) for Rosie and a program that uses Dijkstra's strongly connected component algorithm to find a class of expressions that cannot match input text.

Education

New York University / CS PhD

MONTH 2021 - MONTH 2026, New York City

Relevant Coursework:

Honors Analysis of Algorithms, Honors Programming Languages, Abstract Interpretation, and PhD Research.

NCSU / BS CSC, French Minor

August 2017 - May 2021, Raleigh, NC

Relevant Coursework: Data Structures, Automata, Compiler Construction, Discrete Mathematics, Software Engineering, and Undergraduate Research.