

# Jack Schluger

## Campus Address

523 E Buffalo St., Apt. 7  
Ithaca, NY 14850

jes543@cornell.edu

(917) 391-7995

<https://github.com/jschluger>

## Permanent Address

230 Beach 142<sup>nd</sup> St.  
New York, NY 11694

## EDUCATION

---

### Cornell University, Ithaca, NY

*August 2017 – May 2021*

- Bachelor of Arts in Computer Science and Mathematics
- GPA: 4.07
- *Relevant Coursework:*
  - Machine Learning for Intelligent Systems
  - Intro to Analysis of Algorithms
  - Functional Programming
  - Object-Oriented Programming
  - Systems Programming
  - Basic Probability
  - Intro to Number Theory
  - Multivariable Calculus
  - Linear Algebra
  - Discrete Structures

### Stuyvesant High School, New York, NY

*September 2013 – June 2017*

## RESEARCH EXPERIENCE

---

### Cornell Tech, Undergraduate Researcher

*January 2019 – Present*

- Perform ongoing research into how an artificially generated version of the Natural Language for Visual Reasoning dataset ([nlvr.ai](http://nlvr.ai)) can be used to understand and improve deep neural networks engineered for NLVR and related visual question answering tasks at the intersection of Natural Language Processing and Computer Vision.
- Design and run experiments using state of the art models published in the visual question answering domain.
- Advised by Professor Yoav Artzi.

### Cornell Tech, Research Intern

*June 2018 – August 2018*

- Full stack development of a web application to collect data for Natural Language Processing research:
  - Developed multiplayer game in Unity WebGL with a natural language component, with real-time online gameplay implemented via web sockets.
  - Created web application in Flask to host the game and maintain a SQLite database of user interactions.
- Advised by Professor Yoav Artzi.

## SOFTWARE DEVELOPMENT EXPERIENCE

---

### Cornell App Development Project Team, iOS Developer

*January 2018 – December 2018*

- Created iOS applications to benefit the Cornell community.
- Worked on Pollo, an app for real-time polling in situations from quizzes during a class lecture to voting in a board meeting: <https://github.com/cuappdev/pollo-ios>
  - Implemented the iOS aspect of the app.
  - Worked with the backend team to implement communication with a PostgreSQL database server for data storage, using web sockets for real-time updates.
  - Worked with the design team to implement an intuitive user experience.

## CAMPUS INVOLVEMENT

---

### Cornell Association of Computer Science for Undergrads, Member

*August 2017 – Present*

- Attend tech talks, advising events, and other workshops run by my peers.

### Cornell Fashion Collective, Member

*August 2017 – May 2018*

- Member of Social and Recruitment Team; responsibilities include recruiting models for and coordinating set up of our annual fashion show, which showcased the work of 30 student designers.

## TECHNICAL SKILLS

---

**Languages:** Python, C, OCaml, Swift, JavaScript, Java, C#.

**Tools:** git, emacs, PyTorch, TensorFlow, LaTeX, xCode, Flask, SQL, HTML/CSS, Unity.

**Foreign Languages:** Italian.