

# Joseph Corrado

joseph.corrado@nyu.edu | 516-680-6221

## EDUCATION

### NEW YORK UNIVERSITY

#### BA IN PHYSICS

May 2019 | New York, NY  
Secondary Major in Mathematics  
College of Arts and Sciences  
Cum. GPA: 3.7 / 4.0

## LINKS

Github://jccorrado76  
LinkedIn://joseph-corrado-9737b2a6/

## COURSEWORK

### UNDERGRADUATE

Computational Particle Physics  
(Research Asst.)  
Quantum Mechanics  
Electricity and Magnetism  
Dynamics  
Linear Algebra  
Calculus  
Probability and Statistics  
Object Oriented Programming

## SKILLS

### PROGRAMMING

Python (scientific stack) • Shell • C++  
(ROOT framework) • Mathematica  
LaTeX • VBA

## EXPERIENCE

### NYU PHYSICS DEPARTMENT | QUARKS TO COSMOS COURSE

#### ASSISTANT

January 2018 – May 2018 | New York, NY

- Assisted in the instruction of classes, as well as providing solutions manuals to homeworks, and support to the students.

### NYU PHYSICS DEPARTMENT | GENERAL PHYSICS I TUTOR

September 2017 – December 2017 | New York, NY

- Tutored introductory physics to students in the college of arts and sciences.

### COURANT INSTITUTE OF COMPUTATIONAL SCIENCES

#### | CALCULUS AND LINEAR ALGEBRA TUTOR

September 2016 – May 2017 | New York, NY

- Tutored Calculus I, II, III and Linear Algebra for the department.

## RESEARCH

### NYU EXPERIMENTAL PARTICLE PHYSICS | UNDERGRADUATE

#### RESEARCH ASSISTANT

September 2016 – Present | New York, NY  
Worked with Prof Allen Mincer to perform an analysis of the efficiency of algorithms used at the ATLAS experiment at CERN. Determined thresholds needed to combine algorithms such that we get a higher efficiency. Contributed Algorithm Design to ATLAS Collaboration at the Large Hadron Collider.

### CENTER FOR SOFT MATTER | UNDERGRADUATE RESEARCH

#### ASSISTANT

May 2016– September 2016 | New York, NY  
Studied random organization of particles in an immulsion when an external periodic shearing force is applied. Prof Paul Chaikin

## AWARDS

2017 Fall NYU DURE Dean's Undergraduate Research Fund Recipient

## SOCIETIES

2017 National Sigma Pi Sigma Physics Honor Society