Joseph Corrado

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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:// **jcorrado76**
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

2018	Physics Scholarship	Farres P. Mattar Memorial Scholarship Recipient
2017	Fall NYU DURF	Dean's Undergraduate Research Fund Recipient

SOCIETIES

2017	National	Sigma Pi Sigma Physics Honor Society