

Joon Park

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EDUCATION

BA PHYSICS / BM MUSIC COMPOSITION, NORTHWESTERN UNIVERSITY, EVANSTON IL

Computer Science Minor
Expected: Jun. 2018
Cumulative GPA: 3.78

PHYSICS RESEARCH HISTORY

CENTER FOR INTERDISCIPLINARY EXPLORATION AND RESEARCH IN ASTROPHYSICS

Sept. 2016 – Current

Analyze NBODY simulation data involving neutron stars, study characteristics of single and binary neutron stars as potential gravitational wave sources.

FERMILAB CENTER FOR PARTICLE ASTROPHYSICS

Mar. 2015 – Jan. 2016

Analysis of photon data for the Array Camera for Optical to Near-IR Spectrophotometry (ARCONS). ARCONS is the first ground-based instrument in the optical through near-IR wavelength range based on Microwave Kinetic Inductance Detectors. Tasks: operation of ARCONS refrigerator, data collection using controlled light, data analysis (Python).

CORNELL LABORATORY FOR ACCELERATOR-BASED SCIENCES AND EDUCATION

Jun. – Aug. 2014

Collaborated on writing Dark Photon Search proposal. Tested Cesium Iodide scintillating crystals for suitability in use for proposed project. Tasks: programming Arduino (C), data analysis (Python), circuit board maintenance and testing using oscilloscopes/signal generators.

RELEVANT WORK EXPERIENCE

PYTHON INSTRUCTOR - TEEN PROGRAMS, ADLER PLANETARIUM

Summer 2016

Teach Python programming and research techniques to a classroom of 15 high schoolers.

AWARDS AND HONORS

First place, Northwestern IEE Project Showcase (winning project: <https://serif.nu>)
Sigma Pi Sigma (Physics honor society) induction
G. Karhanek Scholarship for academic achievement
Henry Crew/Welch Scholarship for academic achievement in physics
Weinberg College of Arts and Sciences Dean's List
Bethe Physics Prize presented by the Cornell University Physics Department

Mar. 2017
Spring 2016
Dec. 2015
3 times
7 times
Jun. 2013

SELECTED LEADERSHIP POSITIONS

President, Society of Physics Students

Maintain communication with dept. administration and professors, lead weekly meetings, oversee executive board, promote physics education outreach.

2016-Current

Chairman, Weinberg College of Arts and Sciences Student Advisory Board

Lead general and executive board meetings, advise college Dean, chair academic initiative committees, present to board of visitors.

2015-16

Special Projects Coordinator, Phi Mu Alpha Sinfonia Fraternity, Province 37

Organize province-wide philanthropy and brotherhood events, assist collegiate province representative.

2015-Current

Assistant Music Director, Phi Mu Alpha Sinfonia Fraternity, Iota Chapter

Direct chapter choir, prepare rehearsal plans, run music philanthropies.

2014-Current

Tenor Saxophone Section Leader, Northwestern University "Wildcat" Marching Band

Teach music and drill, responsible for performance of section every gameday.

2014-16