

# Victoria Kubyshko

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## EDUCATION

**Carnegie Mellon University, Pittsburgh, PA**

Aug 2016–May 2020

*Bachelor of Science – Double Major in Mathematical Studies and Physics, GPA: 3.76*

Relevant Courses: Principles of Imperative Computation, Fundamentals of Programming and Computer Science, Operations Research I, Combinatorics, Discrete Math, Matrices and Linear Transformations

## WORK AND RESEARCH EXPERIENCE

**Research Assistant**

May 2019–Present

*Dr. Diana Parno, Carnegie Mellon University*

- Used ROOT, a scientific software package in C++, to analyze data collected in the KATRIN experiment
- Wrote scripts to quantify how changing the region of interest would affect experimental mass of neutrino

**Software Engineer Intern**

May 2018 – Aug 2018

*Fidelity Investments, Westlake, TX*

- Designed and implemented cost control tools in Python for Fidelity's cloud services, reduced costs by 20%
- Built tool to ensure tag-compliance in AWS within the business unit to reduce costs
- Created Angular web app to automate feedback for teams on their path to the Cloud

**Research Assistant**

Jan 2018 – Dec 2019

*Dr. Matthew Walker, Carnegie Mellon University*

- Modeled the proper motion in right ascension and declination of stars from M54 and Sagittarius to quantify the effects of dark matter
- Developed an optimization model in Python for galaxy clusters using the Gaia data release

## SPECIAL PROJECTS

**CoVM Implementation**

April 2019

- Implemented a Co virtual machine that interprets bytecode using a stack implementation in C
- Handles functions, variables, errors and assertions, and memory allocation

**“NASA's Space Explorer” Term Project**

Dec 2019

- Designed and programmed an interactive Kinect game in Python
- Used object-oriented programming to connect real-time data from Kinect sensors to player's movements

Link: <https://youtu.be/IACRHurZrog>

**“Yelp You Out” HackCMU**

Sept 2017

- Worked on a small team to create a POC that built off the Yelp API to create a multi-user platform
- Wrote code for optimization of multiple users' preferences using Python

Link: <https://youtu.be/XYJ6WlQjGvA>

## SKILLS

**Coding:** Python, C, C++, HTML, CSS, JavaScript

**Frameworks:** Angular, AWS, Splunk

**Language:** Russian, Spanish

## EXTRACURRICULARS

**Alpha Phi Fraternity**

- *Philanthropy Chair, 2017–18:* organized 2 events on campus to raise \$1000
- *Booth Chair, 2018–19:* led 70+ people in designing and building a 20'x 15'x 20' booth over 4 months

**CMU Figure Skating Club**

- *Co-President, 2018–19:* coordinated travel, practice and competition schedules for 10+ skaters
- *Officials' Liaison, 2017–18:* responsible for travel and living accommodations for competition officials