# **ACADEMIC & CAREER GOALS**

Major in Physics and eventually pursue a Ph.D. in Physics

# **ADVANCED COURSEWORK & TEST SCORES**

Coursework: AP Calculus BC (A+), AP Biology (A), AP World History (A+), Honors Chemistry (A+),   
Honors Physics (A+)

Tests: SAT Math II (800), AP Comparative Government (5), AP World History, AP Physics 1,   
AP Biology, AP Calculus BC *(2020 AP exam scores will be released mid-July)*

# **EDUCATION**

# *High School*

## Pennsylvania Homeschoolers, Fairbanks, AK 2019 – 2020

## The Potter’s School, Tbilisi, Republic of Georgia2018 – 2019

# *Middle School*

## Boston Trinity Academy, Boston, MA 2017 – 2018

## Cubberley K-8 School, Long Beach, CA 2016 – 2017

## Irvine Homeschool, Irvine, CA 2015 – 2016

## Calvert Education, Mawlamyine, Myanmar 2014 – 2015

# *Elementary School*

## Calvert Education, Yangon, Myanmar 2013 – 2014

## Butler Elementary School, Belmont, MA 2009 – 2013

# **SCIENCE-RELATED ACTIVITIES**

**University of Pennsylvania’s Experimental Physics Research Academy**, *Online* (Summer 2020)

* Three-week program with a hands-on approach to a wide range of physics topics including mechanics, electromagnetism, relativity, and mathematical modeling

**NuVu Summer Studio: Social Robots**, *Online* (Summer 2020)

* Two-week program to design and build a robot that uses sensors to mimic human interaction; combines design, physics, engineering, programming, electronics, robotics, and 3D modeling

**Radio astronomy summer project**, Long Beach, CA (Summer 2020)

* Built a do-it-yourself horn antenna and used with Software-Defined Radio to look for the H1 21-cm line
* Used MATLAB for data analysis

**Volunteer Science Instructor**, Long Beach, CA (Summer 2019)

* Led a one-week science program, introducing 4th-8th graders to the concept of electromagnetic waves using thermal cameras, diffraction gratings, and polarization filters

# **OTHER ACTIVITIES**

**Cross-Country Skiing**, Lathrop High School, Fairbanks, AK (10th; 13 hrs/wk, 15 wks/yr)

## Music/Violin (5th – present; 7 hrs/wk)

* ***Concertmaster*, Fairbanks Youth Orchestra (FYO) Concert Orchestra** (10th; 4 hrs/wk)
* ***Principal Violinist*, The Rivendell Academy (TRA) Ensemble** (10th; 2 hrs/wk, 10 wks/yr)
  + Performances at Pioneer Homes (assisted living) in Fairbanks, AK, and Nenana, AK
* **Volunteer Musician**, Long Beach, CA (Summer 2019)
  + Performed violin and other instruments at various Korean American senior citizen homes
* ***Member*, TRA A Capella Choir** (10th; 2 hrs/wk)

**Community Volunteer**, Nenana, AK (2019 – 2020)

* Shoveled snow for residents of the Nenana native village