

Curriculum Vitae
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EDUCATION

University of Pittsburgh <i>Ph.D. in Physics</i>	Pittsburgh, PA <i>Sept 2021 – Present</i>
University of Pittsburgh <i>M.S. in Physics</i>	Pittsburgh, PA <i>Sept 2021 – Aug 2023</i>
Univeristy of Illinois at Urbana-Champaign <i>Bachelor of Engineering Physics, Minor in Chemistry</i>	Urbana, IL <i>Aug. 2014 – May 2017</i>

RESEARCH EXPERIENCE

Graduate Research Assistant <i>Frolov Lab - University of Pittsburgh</i>	Aug. 2021 – Now <i>Pittsburgh, PA</i>
Cryogenic Electrical Characterization Engineer I <i>Microsoft - Purdue University Station Q</i>	Mar. 2020 – Jun. 2021 <i>West Lafayette, IN</i>
Post Baccalaureate Intern - Cryogenic Characterization <i>HYPRES, Inc.</i>	May 2017 - Aug. 2018 <i>Elmsford, NY</i>
Intern - Cryogenic Characterization <i>HYPRES, Inc.</i>	Jun. 2016 – Aug. 2016 <i>Elmsford, NY</i>

CONFERENCE TALKS

Exploring Mobility in ZnTe-Coated InAs Nanowires. American Physical Society March Meeting 2024 (Minneapolis, MN). Presenter.

Fully Superconducting Multi-Chip Module Process with Controlled Interchip Spacing for Quantum Integrated Circuits. American Physical Society March Meeting 2018 (Los Angeles, CA). Co-author.

Fully Superconducting Multi-Chip Module Process with Controlled Interchip Spacing for Quantum Integrated Circuits. Applied Superconductivity Conference 2018 (Seattle, WA). Co-author.

HONORS AND AWARDS

University of Illinois at Urbana-Champaign

- Dean's List – May 2017
- Engineering Visionary Scholar – August 2014, 2015, 2016
- University of Illinois at Urbana-Champaign Tuition Grant – August 2014, 2015, 2016
- Eggers Engineering Award – August 2015
- Beatrice Hight Scholarship – August 2015

Oakton Community College

- Academic Merit Scholarship

TECHNICAL SKILLS

Programming Languages

- Python (qcodes, qtlab, matplotlib, numpy, opencv, PyQt5)

Developer Tools

- Git & GitHub
- Jupyter Notebook & Jupyter Lab

Software

- Autodesk Inventor (CAD)
- Origin Lab
- 3-D MLSI - Extraction of Inductances of Multi-layer Superconductor Circuits
- KLayout

Markup Language

- L^AT_EX

FABRICATION EQUIPMENT AND SKILLS

- HYPRES Integrated Cryogenic Test Bed (ICE-T)
- 4 Kelvin Liquid Helium "Dunker" setups.
- Digital to Analog Converters (DAC)
- Ithaco 1211 Current Preamplifier

- Scanning Electron Microscopy (SEM)
- Electron Beam Evaporation Deposition
- Electron Beam Lithography
- Argon Milling and Plasma Ashing
- NI VISA Programmable Instruments

TEACHING AND SERVICE

Teaching Assistant

University of Pittsburgh

Fall 2021, Spring 2022

Pittsburgh, PA

- PHYS 0110 - Introduction to Physics 2: Taught recitation, held office hours, proctored exams, and graded homework assignments for 90 Students.
- PHYS 0174 - Physics for Scientists and Engineers 1: Taught recitation, held office hours, as well as proctored and graded exams for 30 Students.

Course Instructor

Ivy Global, Inc.

Summer 2019

White Plains, NY

- Taught courses on preparation for the General SAT standardized test.
- Generated an average improvement of 100 points on General SAT scores after eight lectures.
- Led 1-on-1 tutoring sessions on SAT preparation.

Teaching Assistant

Fall 2014

*Oakton Community College**Des Plaines, IL*

- MAT 060 - Prealgebra: Assisted professor with lecture and answered student questions during office hours

Tutor

Fall 2014, Summer 2014, Summer 2015

*Oakton Community College**Des Plaines, IL*

- Conducted one-on-one tutoring session on the subjects of college level math, physics, and chemistry.
- Adjusted teaching style to accommodate various methods of learning: visual, auditory, etc.

Technical Editor

Sept. 2014 - Dec. 2014

*Dr. Dub - Bakul Institute**Kyiv, Ukraine*

- Helped translate sections of a materials research article from Russian to English.
- Edited scientific article sections for clarity, syntax, and comprehension.
- Published article: <https://doi.org/10.3103/S1063457617020034>