

Alexander Royzman

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Work Experience

Service Center Assistant, *Black Diamond Equipment* December 2020 – March 2021

- Receive & index recalled PIEP avalanche beacon products using Microsoft Dynamics NAV, while paying strong attention to detail.
- Assist with repairs on a variety of seat-back warranty claimed Black Diamond equipment.

Research Assistant, *University of Utah* September 2019 – February 2020

- Program a cooling system for an intensity interferometer telescope using Lab View.

Chemistry Intern, *Utah Public Health Lab* October 2019 – January 2020

- Prepare water samples through membrane filtration to separate microorganisms such as *Legionella pneumophila*, an opportunistic pathogen known to cause a pneumonia-like illness.

Microsoft Support Engineer, *Education at Work* August 2019 – February 2020

- Provide a professional 5-star support experience for customers undergoing a wide variety of technical issues with Microsoft Office 365 products including Word, Excel, PowerPoint, OneDrive, and OneNote.
- Collaborate and support team members through Microsoft Teams and in-person interactions.
- Received the Student Spotlight award for showing ambition and determination.

Education

Bachelor of Science, Computational Physics & Philosophy of Science, *University of Utah*

August 2018 - May 2022

- Relevant Coursework: Differential Equations & Linear Algebra, PDE's, Cognitive Science, Classical Physics I & II (H), Applied Complex Variables, Inductive Logic, Thermodynamics & Statistical Mechanics, Deductive Logic, Particle Physics, Quantum Mechanics, Algorithms, Computing in Physics I & II, Philosophy of Mind.

University Projects

Fundraised \$1,800 for the *Beekeepers Association at the University of Utah* September 2018

- Class project for a biology class on Global Sustainability that tasked us to outreach and work with crowd-raising organization, Funderbolt to raise funds for beekeeping supplies.

Film Club at the U, *Social Media Coordinator & Vice President* March 2020 – May 2022

- Maintained social media obligations for club events & announcements, such as film screenings, script contests, etc.

Research

Research Assistant, *Fernando Guevara Vasquez* January 2021 – September 2021

- Facilitate & aid with research on the solvability of the discrete conductivity and Schrödinger inverse problems described as a process of calculating from a set of observations the causal factors that produced them.
- Use abstract thinking & application of linear algebra and PDE concepts to real-life resistor networks.
- Obtain a uniqueness result for a discrete inverse Schrödinger problem and present results to symposium under guidance of mentor.

Research Assistant, *Yue Zhao*

May 2021 – August 2021

- Refactor python code provided from the LIGO gravitational wave analysis results.

Skills

Microsoft office - Microsoft Word, Excel, PowerPoint, etc. & their Google equivalents.

Project management - Microsoft Teams, Slack, Discord, & GroupMe.

Adobe Creative Cloud suite - Acrobat, Illustrator, Photoshop, Audition.

Programming software - PyCharm, Jupyter, Anaconda, MATLAB, Eclipse.

Programming languages - Mat Lab, Python, Linux/Unix, and Java.

Spoken languages - English (fluent) & Russian (proficient).

Repositories - GitHub