

Edward Finkelstein Student

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6 May 1999

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Linkedin Profile

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Coding Portfolio

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Wyzant Tutoring Profile

(1)

Github Profile

Research Reports/Theses

Licenses & certifications

Technical Skills

C/C++/C#

Python/Numpy/Pandas

Matplotlib/Seaborn/sklearn

TensorFlow-Keras/PyTorch

CERN ROOT

Fortran

Mathematica

LETEX/TikZ

Gnuplot

KiCad/LTSpice

Vi/Emacs/Unix/Linux

Mac OS/Windows

HTML/CSS/JavaScript/PHP

SML

Language Skills

English (Native)

Dutch (Basic)

German (Basic)

Danish (Basic)

Education

Master of Science in Physics & Minor in Machine Learning

Johannes Gutenberg University of Mainz

German GPA: 1.4 (Magna Cum Laude & Excellence Track Physics)

Bachelor of Science in Physics

Stony Brook University

GPA: 3.76/4.00 (Magna Cum Laude & Honors in Physics)

High School

Earl L. Vandermeulen High School

Specialized in mathematics and science

GPA: 98.65/100.00

Awards

JGU Mainz Excellence Track Certificate

July 2023

JGU Mainz Excellence Track Scholarship Award

NYS STEM Incentive Program Scholarship Award

Sept. 2017 - May 2021

Stony Brook Presidential Scholarship

Sept. 2017 - May 2021

AP Scholar with Distinction

Research Experience

ALPS Project - AI-based Learning for Physical Simulation

Research project: Discover *interpretable* physical models and employ novel symbolic regression methods, here. TA'd for the course "Statics and Strength of Materials." References: Prof. Lucantonio, a.lucantonio@mpe.au.dk, Prof. Andriollo titoan@mpe.au.dk

Master-Thesis - Search for Axion-like particle in exotic decays of the Higgs boson with the final states of $ll\gamma\gamma$

Search for $H\to Za$ decay as external ATLAS/CERN member. Perform selection cuts on data. Rewrote analysis software in C++, here and improved ROOT RDataFrame implementations in Python and C++. Merged ROOT CERN pull-requests here. References: Prof. Schott, Matthias.Schott@cern.ch, Dr. Naumann axel.naumann@cern.ch

Research - Search for dijet resonances in events with an isolated lepton using \sqrt{s} = 13 TeV proton–proton collision data collected by the ATLAS detector

Analysis & simulate data as external ATLAS/CERN member. Fit empirical functions to particle event data. Performed signal injections to model statistical fluctuations and search for BSM physics. Reference: Prof. Tsybychev, dmitri.tsybychev@stonybrook.edu

Work Experience

Para-educator

Provide instructional reinforcement & physical assistance to students. References: MacKenzie Sheaff, msheaff@lps.org, Michael Long, mlong4@lps.org

Django Web Developer Quantum Computing

Converted the GUI (graphical user interface) for the quantum computer at JGU Mainz to a responsive website using Django, here. Reference: Maximilian Orth, morth@uni-mainz.de

LETEX and TikZ Typesetter

Typeset hand-written notes and drawn figures for a particle detector's course at JGU Mainz in \LaTeX and TikZ, here. Reference: Dr. Ulrich Müller, ulm@uni-mainz.de

Wyzant Tutor

Tutor undergraduate students in STEM topics such as the C/C++ and Python programming languages, as well as physics, calculus, and differential equations, here.

Mar. 2024 - Present

Oct. 2021 - July 2023

Sept. 2017 - May 2021

Sept. 2014 - June 2017

May 2017

Aug. 2023 - Jan 2024

Oct. 2022 - July 2023

May 2020 - Oct. 2021

Nov. 2022 - July 2023

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Feb. 2022 - Nov. 2022

March 2021 - Present