

KEVIN ZHANG

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EDUCATION

Carnegie Mellon University

June 2023 - Present

Bachelor of Science, Computer Science

Relevant Coursework: Principles of Imperative Computation, Mathematical Foundations for Computer Science, Great Practical Ideas in Computer Science, Matrix Theory

Illinois Mathematics and Science Academy

August 2020 - June 2023

High School Diploma - GPA: 4.0/4.0

Relevant Coursework: Computational Science, CS Seminar: Machine Learning, iOS App Development

SKILLS

Languages

C++, Java, C#, C, JavaScript, Swift, Python, HTML, CSS, \LaTeX

Technologies

Node, Express, JQuery, Linux, JSON

Skills

Computational Physics, Data Analysis, Machine Learning, Mathematics, Tutoring

EXPERIENCE

Fermilab

June 2021 - June 2023

Student Researcher

Batavia, IL

- Lowered lepton jet misclassification rates by 61.8% from the theoretical limit of cuts-based methods currently used in my group
- Validated the invariance of the MLP model against dark photon mass, final state radiation, and event type except those in which dark photon parent particle mass is changed
- Deployed machine learning models to classify high same-sign invariant mass (≥ 100 GeV) lepton pairs as signal-generated or background-generated

Illinois Mathematics and Science Academy

August 2021 - June 2023

Peer Tutor

Aurora, IL

- Demystified math, physics, and computer science concepts for other students
- Accumulated over 250 hours of tutoring experience

PROJECTS

IMSA Courses

December 2020 - April 2021

- A website which compiles information on course offerings at my high school, IMSA, into a more efficient and navigable format. This information was sourced from the Course Catalog found at <https://imsa.edu/academics/academic-programs/>. Information can be updated to remain accurate over time by teachers and administrators directly from the website.

SELECTED AWARDS

US Physics Olympiad (USAPhO) Bronze Medal + Honorable Mention
3× American Invitational Mathematics Examination (AIME) Qualification
National Merit Scholar