Maya Wallach

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PERSONAL	**Date of Birth**: September 10, 2005 **Place of Birth**: Fredericksburg, VA **Citizenship**: United States

EDUCATION	**Michiagan State University, East Lansing, MI** BS Physics *Aug 2021 - May 2024* Graduated with Honors

RESEARCH/WORK EXPIRENCE	**FermiLab, Batavia, IL** *May 2023 - present* **Student Researcher** • Use Machine Learning models for Identifying/Classifiying tracks in a bubble chamber • Project page: here **IRIS-HEP @ Davidson College, Davidson, NC** *May 2022 - August 2022* **Undergraduate Fellow** • Track Classification @ AT-TPC using Unsupervised Learning methods • Presented at the annual Division of Nuclear Physics meeting in 2022 **Los Alamos National Lab, Los Alamos, NM** *September 2021 - September 2022* **Undergrad Research Assistant** • Use computational methods to simulate the k-L turbulance and Rayleigh-Taylor models **Facility for Rare Isotope Beams, East Lansing, MI** *August, 2020 – present* **Undergrad Research Assistant** • Predicting unstable particle radii using computational methods **Michigan State University** *June 2020 – August 2020* **High School Physics Intern** • Studied Zeeman effect using Python and derivation

PROJECTS	**KlaudOS** Klaud themed hobby operating system • Double Stage bootloader • FAT12 file system • Interupts/FPU support • Interactive shell with commands • Languages: C and x86 asm • Project page: here • Demo video: here **KlaudOS Website** The official KlaudOS Website • HTTP web server in C • Gives information on KlaudOS • Languages: C, HTML, CSS • Project page: here **Personal Website** Static Portfolio Website • Simple and Interactive UI • RuneScape cursors • Languages: HTML, CSS, JavaScript • Website: here • Project page: here

SKILLS	**Programming Languages** – Python (5 year), C/C++ (5 years), Bash (1 year), R (3 years), JavaScript (4 years), HTML/CSS (4 years), Rust (1 year), x86 Assembly (1 year) **Frameworks** – Pytorch (3 years), Tensorflow (3 years), scikit learn (3 years), OpenCV (4 years) **Computer Skills** – Linux (Debian and Arch) Operating Systems (4 years), Windows Operating systems (10 years), Git (4 years), Microsoft Office (5 years), LibreOffice (4 years) **Personal Interests** – Computer Science, Reading, Sports, Music