# Jacob Stavrianos

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## Education

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| 2019 - 2023 | **Stanford University**, Palo Alto, CA, Class of 2023.<br>GPA 3.796, Intended Math major + CS coterm |
| 2015 - 2019 | **Montgomery Blair High School**, Silver Spring, MD, Class of 2019.<br>Mathematics, Science, and Computer Science magnet program |

## Work Experience

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| 2021 Summer | **Five Rings Capital**.<br>Completed a research project under the mentorship of a full-time Quantitative Researcher; competed against other interns in training games |
| 2020 Summer | **Openproof Foundation**.<br>Developed web applications for Openproof software packages, worked with Javascript and HTML+CSS frontend, collaborated with a team of undergraduate students |
| 2019 Summer | **ASR Analytics**.<br>Developed a graph-based recommender engine to inform IRS tax compliance interventions; gained practical experience with a modern software development toolchain |

## Research/Extracurriculars

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| 2021 Winter - Spring | **Stanford Existential Risks Initiative**.<br>Researched the Outer Alignment problem under the mentorship of Alex Turner, extended Turner's definition of POWER to multi-agent games |
| 2020 Winter | **Math Directed Reading Program**.<br>Studied *Algebraic Topology* by Hatcher under the mentorship of Joseph Helfer, gave a talk presenting my research to the program participants |
| 2018 Summer | **University of Maryland REU (Research Experiences for Undergraduates) program**.<br>Collaborated with undergraduate students from across the country to research the Hadwiger-Nelson problem under Dr. Clyde Kruskal; co-authored a journal article detailing our results |
| 2017 - 2019 | **Blair Math Team Captain**.<br>Chosen by previous captains; responsible for organizing events and competitions among large groups and teaching students complex math in an approachable and engaging way |

## Achievements/Awards

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| 2019 | **USAMO (USA Math Olympiad) Top 50 Nationwide**.<br>○ Two-time qualifier for USAJMO (USA Junior Math Olympiad) |
| 2016 | **University of Maryland Mathematics Competition: 2nd place overall individual**.<br>○ Won a 4-year scholarship to UMD and a cash award |

## Relevant Coursework

○ Mathematics (61, 63, 121, EE263; familiar with a wide variety of fields)
○ Computer Science (106B, 107, 103, 109, 161, 221)

## Computer Skills

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| Programming | Python (+ data science packages), Java, Javascript/CSS, C++, R, MATLAB, Lisp |
| Software | Unix + Shellscript, Git, Conda, LaTeX, Vim |