Iago Mendes

Computational Physicist

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Education

Oberlin College – Oberlin, OH

Physics & Computer Science Double Major **February 2021 – December 2024**

- GPA: **4.01** / 4.00
- STRONG (Science and Technology Research Opportunities for a New Generation) Scholar
- John F. Oberlin Scholarship Recipient
- Relevant Coursework:

Electromag. & Thermo.	Modern Physics	Computational Physics (**Python**)
Classical Mechanics	Quantum Mechanics	Waves & Optics
Astro.: Stars & Planets	Algorithms	Systems Programming (**C**)
Data Structures (**Java**)	Theory of Computation	Computer Architecture (**Assembly**)

Experience

Oberlin College – Oberlin, OH

Researcher, SXS collaboration **September 2021 – Present**

- Developed a finite-difference **C++** code with a method for embedding **black holes** into flat space.
- Developed method on the **Spectral Einstein Code** and ran binary black hole merger **simulations**.
- Presented at the **APS April Meeting** (2023) and Oberlin's **Research Symposium** (2022, 2023).
- Selected as **Featured Researcher** by Oberlin's Office of Undergraduate Research.

Resident Assistant, Underrepresented in STEM House **September 2021 – Present**
Teaching Assistant **September 2022 – Present**

- Courses: Mechanics & Relativity, Electromagnetism & Thermo., and Programming Abstractions.

STEM Community Leader **September 2023 – Present**

Google – Bay Area, CA

SWE Intern, Wear OS **May 2023 – August 2023**

- Used **Java** and **C++** to develop features on the **Android** operating system for smartwatches.
- Worked on three parts of the codebase, completing two additional projects beyond the initial scope.
- Collaborated with my team and others, including managers, input engineers, and UX designers.

STEP Intern, Google Assistant **June 2022 – September 2022**

- Used **Angular** (**TypeScript**) to create reusable components for Google's issue-tracking platform.
- Used **Sass** and **Angular Material** to build a modern, intuitive UI with support for themes.
- Completed entire development process: design doc, implementation, documentation, and launch.

Projects

Activities & Leadership

Honors & Awards