

Amber Atac

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EDUCATION

University of California, Berkeley

B.S. Engineering Physics

Skills: Matlab, Python,

Libraries:

Expected Graduation: May 2027

GPA: 3.85

PROJECTS / RESEARCH

Advertising Campaign Intern, OSHA Foundation

June - August 2020

- Led daily management of scholarship campaign ads in preparation for key deadlines, optimizing visibility and engagement.
- Developed and executed a tailored social media strategy, effectively targeting and engaging the 18-20-year-old demographic.

Physics Researcher, UCSB Summer Research Academy

- Leveraged Python programming skills to integrate with the Las Cumbres Observatory's systems, enabling enhanced astronomical imaging capabilities.
- Directed a month-long independent research project, culminating in a successful presentation to an audience of over 100 attendees.
- Contributed to a collaborative research paper focusing on advanced imaging techniques for the Helix Nebula's ring structures.

Senior Project, BASIS Independent Brooklyn

- Conducted rigorous research on 'The Neuroscience of Radicalization', employing both wet and dry lab methodologies for a holistic approach.
- Authored and disseminated weekly blog posts, delivering consistent updates and data-driven insights on the research progression to a diverse readership.
- Integrated lab results with an exhaustive review of existing literature, leading to the formulation and substantiation of hypotheses, eventually resulting in a detailed literature review paper.

LEADERSHIP & EXTRACURRICULAR EXPERIENCE

National Honors Society

February 2019 – March 2022

- Demonstrated commitment to community service by volunteering 30 hours each trimester over a 3-year period, totaling 270 hours of service.
- Supported the Red Hook Art Project daily by packing leftover school lunches, minimizing waste and contributing to local needs.
- Adapted to the challenges of the pandemic by tutoring middle school students in physics, math, and history, dedicating 20 hours each month to support their academic progress.
- Engaged in meaningful collaborations with Red Hook residents, participating in park cleanups, community farm activities, and maintenance of community fridges to promote a cleaner and more sustainable neighborhood.

Red Hook Community Justice Center

January 2019 – March 2022

- Managed and supervised 5-10 juvenile cases annually, providing guidance on effective reintegration into the community post-offense.
- Directed a peer-to-peer diversion program, delivering coaching and instruction, while fostering collaborations with local schools and community organizations for referrals.
- Facilitated restorative justice circles, addressing cases involving vandalism, shoplifting, assault, and truancy.