

# Shandra Ahsan

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## **EDUCATION**

**Yale University- New Haven, CT (Class of 2024)** Candidate for B.S. in Biomedical Engineering

## **TECHNICAL BACKGROUND**

**Research Skills:** cryosectioning, assay development, business development, immunohistochemistry, regulatory operations

**Applications:** MATLAB, GraphPad Prism, Google Suite, Microsoft Suite

**Relevant Coursework:** Physiological Systems, Biomedical Computations, Multivariable Calculus, Differential Equations, Biomechanics, Organic Chemistry, Biotransport and Kinetics, Biomedical Signals and Imaging

## **EMPLOYMENT**

***Undergraduate Researcher, Yale University, Miller-Jensen Lab***

**December 2022-present**

-Researching the regulation of macrophage response within tumor microenvironments and analyzing intracellular and extracellular signaling networks that regulate immune cell functions

-Employing a systems-biology approach to model cell signaling cascades in tumor cell immune responses

***Regulatory Affairs Intern, Cresilon Inc.***

**June 2023-August 2023**

- Devised regulatory strategies for three FDA Q-Submissions. Submitted and received FDA 510(k) clearance on the company's first human device, a revolutionary hemostatic gel that stops bleeding within seconds.

- Provided strategic assessments of distributors and investments while using primary and secondary market research data to analytically support existing and new marketing sales strategies

***Healthcare Research Intern, Mira***

**August 2022-December 2022**

-Researched health data and created written content for Mira, an accessible healthcare platform committed to providing all of its users with affordable health insurance

-Provided critical healthcare and health insurance information to Mira users including the cost of prescription drugs without insurance, how to sign up for an ACA health plan, and reproductive health resources

***Undergraduate Researcher, Yale School of Medicine, Tietjen Lab***

**June 2021-August 2022**

-Conducted studies on human organs to engineer methods that increased organ viability for organ transplants with hopes of increasing the donor organ bank and decreasing organ waste

-Gathered data on kidneys in cold storage to create a digital twin of the human kidney that virtually observed the effects of different kidney therapeutics and assessed hemolysis in extended liver perfusions to increase organ viability and storage time

***Healthcare Policy Intern, Our National Conversation***

**June 2022-August 2022**

-Headed the research and writing of numerous policy-based deliverables on a triweekly basis, providing analysis into topics like ACA expansion, prescription drug pricing, and telehealth regulation

-Analyzed complex healthcare issues through a nonpartisan lens, using both public and private sector data to inform policy proposals

## **ACTIVITIES AND LEADERSHIP**

***Vice President, Yale Biomedical Engineering Society***

**August 2022-present**

-Investing in the success of the 120 biomedical engineering majors at Yale by coordinating keynote speeches, professional development workshops, and networking events

-Connecting students with resources for academic and professional success in biomedical engineering

***Student Relations and Recruitment Director, HAVEN Free Clinic***

**May 2023-present**

-Leading outreach efforts for volunteer recruitment and fundraisers for HAVEN Free Clinic, a student-run, free primary care clinic serving underserved populations in New Haven County

-Coordinating volunteers to staff weekly clinic days and connecting patients with social services such as rental assistance, legal assistance, and emergency funds

***Fellow, Yale Helix***

**June 2022-May 2023**

-Collaborated with healthcare professionals to develop healthcare and biotechnology start-ups and pitch original ideas to address challenges in healthcare

-Pioneered an app used to keep family members of hospital patients up-to-date with the latest updates on their relative's hospital charts

***Vice President of DEI, Yale Alpha Phi, Iota Chi Chapter***

**December 2021-November 2022**

-Led diversity, equity, and inclusion efforts within the Iota Chi chapter of Alpha Phi, including coordinating alumni outreach efforts to build the chapter's financial aid fund, which increased double due to my contributions

-Coordinated outreach efforts with alumni to make sorority membership more accessible and equitable