

Akash Chauhan

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EDUCATION

University of California, Los Angeles (UCLA)

Computational and Systems Biology, B.S.

09/2022 - *Present*

expected graduation 06/2026

Bonita High School, La Verne, California

Diploma

08/2018 – 06/2022

Class Rank 1/426

RESEARCH

UCLA, Pediatric Urology, Undergraduate Researcher

02/2023 – *Present*

Advisor: Dr. Renea Sturm, MD

Study: Comparative Analysis of Digital Scanning Technologies: An Examination of Mobile Application and Structured Light Scanning in Penile Measurements

- Assessed the accuracy, consistency, and precision of two 3D digital scanning methods for pediatric hypospadias outcomes.
- Spearheaded clinical research protocols within operating rooms to leverage the capabilities of augmented reality through a mobile application; data analysis using pingouin library.
- Manuscript complete; poster presentation in preparation; \$3,500 stipend received.

Study: Penile Training Devices for Hypospadias and Fistula Outcomes in Pediatric Urology

- Developed novel penile training devices specifically designed to address hypospadias and fistula complications in pediatric urology.
- Utilized cutting-edge in-silico tissue simulations for realistic modeling, enhancing device design and reusability.
- Manuscript in preparation; Models have been sent to pediatric residential programs across country for testing.

University of California, San Francisco, Locally-Sponsored Researcher

06/2023 – 08/2023

Advisor: Dr. Nirav Pandya, MD

Study: Traumatic Spinal Cord Injuries in Diving

- Investigated the epidemiology of spinal cord injuries from diving in the US and discern the long-term functional implications.
- Employed the comprehensive National Spinal Cord Injury Model Systems (SCIMS) Database, organized and executed clinical research protocols, classified injuries via the American Spinal Injury Association (ASIA) Impairment Scale, and assessed demographic, clinical, and outcome data of over 2,000 individuals.
- Manuscript submitted for review; co-first author

PUBLIC HEALTH AND COMMUNITY ENGAGEMENT

Cedar-Sinai Medical Center Clinical Volunteer, Los Angeles, CA

Transformative Care at Bedside

02/2023 – Present

- Effectively coordinate with and shadow nursing units in the Critical Cardiac ICU to enhance patient and family care.
- Managed the dispatch and receipt of essential medical resources, including medicines, blood, and instruments, optimizing patient care and enhancing hospital workflow efficiency.
- Collaborated with diverse populations of patient families, providing guidance, support, and tailored assistance to meet their unique needs and enhance their hospital experience.

Matriculate, UCLA

Advising Fellow

11/2023 – Present

- Conducted weekly one-on-one mentoring sessions with high school juniors and seniors, focusing on college selection, application strategies, essay writing, and financial aid navigation.
- Designed personalized advising plans for each mentee, addressing their unique challenges and aspirations in the college application process.

Citizen Schools

In-Class Mentor

8/2023 – 2/2024

- Provided mentorship and literacy instruction to middle school English Language Learners (ELLs) throughout a semester-long project.

Crisis Text Line

Crisis Counselor

08/2023 – Present

- Provided immediate and empathetic support to individuals in distress, ensuring their safety and well-being via text-based communication.
- Collaborated with a multidisciplinary team, sharing insights and contributing to the continual improvement of counseling processes and protocols.
- Assisted in data collection and reporting, contributing to a broader understanding of crisis trends and enhancing the effectiveness of the counseling service.

The Borgen Project, WA

Advocacy Intern

06/2021 – 03/2022

- Met with director and local congressional offices to discuss support for Global Health Security Act, Girls LEAD Act, the End Tuberculosis Now Act, and funding to fight global poverty and COVID-19 abroad.
- Fundraised for global poverty efforts and mobilized 40+ people to contact Congress.
- Poster Presentation completed.

Alec Brook-Krasny's Campaign for New York City Council, NY

Intern

06/2021 – 07/2021

- Researched political and health policy; coordinated with campaign managers to optimize public perception.
- Heavily involved in virtual canvassing to NY young adult voter base.

HONORS & AWARDS

- Stone, Irving & Jean Honors Research Stipend, UCLA 09/2023
- College Scholars Program, UCLA 01/2023

PUBLICATIONS

Huang A, Lee V, **Chauhan A**, Sahoo A, Li J, Aninwene G, You F, Lerman S, Jackson N, Sturm R. Application of Intraoperative Structured Light Scanning to enable Post-operative Evaluation of Digital and 3D-printed Penile Models. Pediatric Urology.

SKILLS

- HIPPA Research Certification, Citi Program
- Python, R, C++
- Fluent in spoken Hindi and Gujarati