Stanford

Alay Shah

Masters Student in Chemical Engineering, admitted Spring 2024

Bio

BIO

→ Graduate Chemical Engineering student.

→ Previously, Process Engineer at Kite, a Gilead Company.

→ Bachelors in Biomedical Engineering at the University of Texas, Austin.

→ 5 years of experience working in cGMP pharmaceutical manufacturing and upstream process development. Working knowledge of cell and gene therapy, lean manufacturing, risk assessment &mitigation, IOPQ Validation, quality systems, eQRMS, asset lifecycle management, SAP ERP, Syncade MES, Oracle EBS, LIMS, ISO standards and FDA regulations.

→ Through Stanford's MS program, I aim to build upon my biomanufacturing experience, further developing my skillsets in bioreactor design and data analytics to model and improve standardized development of therapeutics for patients

HONORS AND AWARDS

- Cockrell School of Engineering College Scholar, The University of Texas at Austin (2018)
- CPRIT Cancer Research Grant Receiptent, Cancer Prevention and Research Institute of Texas (2018)
- ThinkSwiss Research Scholarship, Embassy of Switzerland in the USA (2019)

EDUCATION AND CERTIFICATIONS

- B.S., University of Texas, Austin , Biomedical Engineering (2021)

LINKS

- LinkedIn: https://www.linkedin.com/in/alayshah52a

Professional

WORK EXPERIENCE

- Manufacturing Sciences and Technology (MSAT) Process Engineer I - Kite, A Gilead Company (January 2022 - present)
- Manufacturing Bioprocessing Associate - Bristol Myers Squibb (May 2021 - January 2022)
- R&D Innovation (Upstream Pilot Manufacturing) Co-Op - Genentech (January 2020 - September 2020)

Publications

PUBLICATIONS

- **Experimentally-driven mathematical modeling to improve combination targeted and cytotoxic therapy for HER2+ breast cancer.** *Scientific reports*

Jarrett, A. M., Shah, A., Bloom, M. J., McKenna, M. T., Hormuth, D. A., Yankeelov, T. E., Sorace, A. G.
2019; 9 (1): 12830

- **The biomechanical basis of biased epithelial tube elongation in lung and kidney development.** *Development (Cambridge, England)*
  Conrad, L., Runser, S. V., Fernando Gómez, H., Lang, C. M., Dumond, M. S., Sapala, A., Schaumann, L., Michos, O., Vetter, R., Iber, D.
  2021; 148 (9)