

# Stanford

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## Alay Shah

Masters Student in Chemical Engineering, admitted Spring 2024

### Bio

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#### BIO

# HCP Graduate Chemical Engineering part time student. Full time 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 Recipient, 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

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#### 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

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#### 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)