

## Adi Xiyal Mukund

- MD Student, expected graduation Spring 2025
- Ph.D. Student in Biophysics, admitted Autumn 2019
- MSTP Student

### Publications

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#### PUBLICATIONS

- **Towards a wraparound model of surgical care: Expanding out-of-hospital phases and integrating health justice considerations to improve health outcomes.** *American journal of surgery*  
Mukund, A. X., Lu, A., Asamoah, A., Balakrishnan, K.  
2024: 115786
- **Teaching transgender cultural competency with standardised patients** *MEDICAL EDUCATION*  
Mukund, A. X., Jia, J. L., Nedelman, M., Rydel, T. A., Bajra, R., Srinivasan, M., Schillinger, E., Laniakea, B. H.  
2024
- **High-throughput functional characterization of combinations of transcriptional activators and repressors.** *Cell systems*  
Mukund, A. X., Tycko, J., Allen, S. J., Robinson, S. A., Andrews, C., Sinha, J., Ludwig, C. H., Spees, K., Bassik, M. C., Bintu, L.  
2023
- **Large-scale mapping and mutagenesis of human transcriptional effector domains.** *Nature*  
DelRosso, N., Tycko, J., Suzuki, P., Andrews, C., Mukund, A., Liongson, I., Ludwig, C., Spees, K., Fordyce, P., Bassik, M. C., Bintu, L.  
2023
- **Dynamic spreading of chromatin-mediated gene silencing and reactivation between neighboring genes in single cells.** *eLife*  
Lensch, S., Herschl, M. H., Ludwig, C. H., Sinha, J., Hinks, M. M., Mukund, A., Fujimori, T., Bintu, L.  
2022; 11
- **Temporal signaling, population control, and information processing through chromatin-mediated gene regulation.** *Journal of theoretical biology*  
Mukund, A., Bintu, L.  
1800: 110977
- **High-Throughput Discovery and Characterization of Human Transcriptional Effectors.** *Cell*  
Tycko, J. n., DelRosso, N. n., Hess, G. T., Aradhana, n. n., Banerjee, A. n., Mukund, A. n., Van, M. V., Ego, B. K., Yao, D. n., Spees, K. n., Suzuki, P. n., Marinov, G. K., Kundaje, et al  
2020
- **OSPREY 3.0: Open-source protein redesign for you, with powerful new features** *JOURNAL OF COMPUTATIONAL CHEMISTRY*  
Hallen, M. A., Martin, J. W., Ojewole, A., Jou, J. D., Lowegard, A. U., Frenkel, M. S., Gainza, P., Nisonoff, H. M., Mukund, A., Wang, S., Holt, G. T., Zhou, D., Dowd, et al  
2018; 39 (30): 2494-2507