



Gina El Nesr

Ph.D. Student in Biophysics, admitted Autumn 2021

Bio

EDUCATION AND CERTIFICATIONS

- Bachelors of Arts, The Johns Hopkins University , Biophysics (2021)
- Bachelors of Science, The Johns Hopkins University , Computer Science (2021)
- Bachelors of Science, The Johns Hopkins University , Applied Math & Statistics (2021)

Publications

PUBLICATIONS

- **Bisppecific antibodies targeting the N-terminal and receptor binding domains potently neutralize SARS-CoV-2 variants of concern.** *Science translational medicine*
Rubio, A. A., Baharani, V. A., Dadonaite, B., Parada, M., Abernathy, M. E., Wang, Z., Lee, Y. E., Eso, M. R., Phung, J., Ramos, I., Chen, T., El Nesr, G., Bloom, et al
2025; 17 (788): eadq5720
- **Learning millisecond protein dynamics from what is missing in NMR spectra** *bioRxiv*
Wayment-Steele, H. K., El Nesr, G., Hettiarachchi, R., Kariyawasam, H., Ovchinnikov, S., Kern, D.
2025
- **Targeting peptide antigens using a multiallelic MHC I-binding system.** *Nature biotechnology*
Du, H., Mallik, L., Hwang, D., Sun, Y., Kaku, C., Hoces, D., Sun, S. M., Ghinnagow, R., Carro, S. D., Phan, H. A., Gupta, S., Blackson, W., Lee, et al
2024
- **An all-atom protein generative model.** *Proceedings of the National Academy of Sciences of the United States of America*
Chu, A. E., Kim, J., Cheng, L., El Nesr, G., Xu, M., Shuai, R. W., Huang, P. S.
2024; 121 (27): e2311500121
- **Singular value decomposition of protein sequences as a method to visualize sequence and residue space** *PROTEIN SCIENCE*
Baxter-Koenigs, A. R., El Nesr, G., Barrick, D.
2022; 31 (10): e4422