

Stanford



Chaitanya K. Joshi

Postdoctoral Scholar, Biochemistry

CONTACT INFORMATION

- **Alternate Contact**

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Bio

BIO

I'm a Stanford Data Science Fellow and Postdoc at the Department of Biochemistry, working with Prof. Rhiju Das. I'm building lab-in-the-loop AI for RNA biology, bridging deep learning and high-throughput wet lab experiments at scale.

Previously, I completed my PhD in Computer Science at the University of Cambridge with Prof. Pietro Liò. My doctoral work focused on Geometric Deep Learning for molecular modelling and design. As a highlight, I developed gRNAd, an inverse design framework that we used to design and experimentally validate new functional RNA enzymes in collaboration with Dr. Phil Holliger's group at MRC LMB. My research has been recognized by the Qualcomm Innovation Fellowship and the A*STAR National Science Scholarship. I've also been a research scientist intern at Prescient Design (Genentech) and FAIR Chemistry (Meta AI) during my PhD.

HONORS AND AWARDS

- Stanford Data Science Fellowship, Stanford Data Science (2025)
- Qualcomm Innovation Fellowship, Qualcomm Inc. (2024)
- National Science Scholarship, A*STAR, Singapore (2021)

PROFESSIONAL EDUCATION

- Ph.D., University of Cambridge, UK , Computer Science (2026)
- B.Eng., Nanyang Technological University, Singapore , Computer Science, Valedictorian (2019)

STANFORD ADVISORS

- Rhiju Das, Postdoctoral Faculty Sponsor

LINKS

- Personal Site: <https://www.chaitjo.com/>
- Stanford Data Science: <https://datascience.stanford.edu/people/chaitanya-krishna-joshi>
- Google Scholar: <https://scholar.google.com/citations?hl=en&user=cwxVFVgAAAAJ>
- Substack Blog: <https://chaitjo.substack.com/>
- X: <https://x.com/chaitjo/>

Publications

PUBLICATIONS

- **Template-based RNA structure prediction advanced through a blind code competition.** *bioRxiv : the preprint server for biology*
Lee, Y., He, S., Oda, T., Rao, G. J., Kim, Y., Kim, R., Kim, H., Heng, C. K., Kowanko, D., Li, H., Nguyen, H., Sampathkumar, A., Gómez, et al
2025