

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 with Rhiju Das at the Department of Biochemistry. I build lab-in-the-loop AI for RNA biology, pairing deep learning with wet-lab experiments at scale.

I did my PhD in Computer Science at the University of Cambridge with Pietro Liò, on geometric deep learning for molecular design. I built gRNAd, the first 3D generative model for RNA, and validated it in the wet lab as a visiting researcher in Phil Holliger's group at the MRC LMB. I've also interned at Prescient Design (Genentech) and FAIR Chemistry (Meta AI), and my work has been recognized by the Qualcomm Innovation Fellowship and the A*STAR National Science Scholarship.

HONORS AND AWARDS

- Stanford Data Science Fellowship, Stanford Data Science (2026)
- 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
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