

# Stanford

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## Ramya Rangan

Ph.D. Student in Biophysics, admitted Autumn 2017

### Bio

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#### BIO

I am interested studying complex RNA processes like pre-mRNA splicing using 2D and 3D computational structural modeling along with experimental structural probing techniques.

#### STANFORD ADVISORS

- Rhiju Das, Doctoral Dissertation Advisor (AC)

### Publications

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#### PUBLICATIONS

- **Anomalous Reverse Transcription through Chemical Modifications in Polyadenosine Stretches.** *Biochemistry*  
Kladwang, W., Topkar, V. V., Liu, B., Rangan, R., Hodges, T. L., Keane, S. C., Al-Hashimi, H., Das, R.  
2020
- **RNA genome conservation and secondary structure in SARS-CoV-2 and SARS-related viruses: a first look.** *RNA (New York, N.Y.)*  
Rangan, R., Zheludev, I. N., Das, R.  
2020
- **Accelerated cryo-EM-guided determination of three-dimensional RNA-only structures.** *Nature methods*  
Kappel, K., Zhang, K., Su, Z., Watkins, A. M., Kladwang, W., Li, S., Pintilie, G., Topkar, V. V., Rangan, R., Zheludev, I. N., Yesselman, J. D., Chiu, W., Das, et al  
2020; 17 (7): 699–707
- **FARFAR2: Improved De Novo Rosetta Prediction of Complex Global RNA Folds.** *Structure (London, England : 1993)*  
Watkins, A. M., Rangan, R., Das, R.  
2020
- **Using Rosetta for RNA homology modeling.** *Methods in enzymology*  
Watkins, A. M., Rangan, R., Das, R.  
2019; 623: 177–207
- **Determination of Structural Ensembles of Proteins: Restraining vs Reweighting** *JOURNAL OF CHEMICAL THEORY AND COMPUTATION*  
Rangan, R., Bonomi, M., Heller, G. T., Cesari, A., Bussi, G., Vendruscolo, M.  
2018; 14 (12): 6632–41