Stanford



Noor Al-Sayyad

Postdoctoral Scholar, Bioengineering

Bio

STANFORD ADVISORS

- Zev Bryant, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Stepwise DNA-unwinding gates TnpB genome-editing activity.** *Molecular cell*
  Zhou, Z., Saffarian-Deemyad, I., Shi, H., Weiss, T., Ur-Rehman, M. M., Vohra, K., Skopintsev, P., Yoon, P. H., Trinidad, M. I., Langeberg, C. J., Kamalu, M., Amerasekera, J., Zhou, et al
  2026

- **Rapid two-step target capture ensures efficient CRISPR-Cas9-guided genome editing.** *Molecular cell*
  Shi, H., Al-Sayyad, N., Wasko, K. M., Trinidad, M. I., Doherty, E. E., Vohra, K., Boger, R. S., Colognori, D., Cofsky, J. C., Skopintsev, P., Bryant, Z., Doudna, J. A.
  2025

- **Dynamic basis of supercoiling-dependent DNA interrogation by Cas12a via R-loop intermediates.** *Nature communications*
  Aris, K. D., Cofsky, J. C., Shi, H., Al-Sayyad, N., Ivanov, I. E., Balaji, A., Doudna, J. A., Bryant, Z.
  2025; 16 (1): 2939

- **Ancestral RNA-guided TnpB nuclease interrogates DNA in discrete supercoiling-sensitive steps**
  Saffarian-Deemyad, I., Zhou, Z., Aris, K., Shi, H., Al-Sayyad, N., Doudna, J. A., Bryant, Z.
  CELL PRESS.2025

- **Torque spectroscopy of molecular friction: From basepair stacking to Cas9**
  Al-Sayyad, N., Starr, C. H., Ivanov, I. E., Cofsky, J., Aris, K., Shi, H., Doudna, J. A., Bryant, Z.
  CELL PRESS.2024: 500A

- **Characterizing dissociative motion in time-resolved x-ray scattering from gas-phase diatomic molecules** *PHYSICAL REVIEW A*
  Ware, M. R., Glownia, J. M., Al-Sayyad, N., O'Neal, J. T., Bucksbaum, P. H.
  2019; 100 (3)