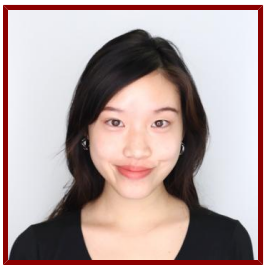
Stanford



Jessie Ong

- Bachelor of Science, Biology
- Masters Student in Biology, admitted Autumn 2024

Bio

BIO

Jessie Ong is a 2026 Ellison Scholar, a current BS/MS student in Biology at Stanford, and an incoming DPhil student in Paediatrics at the University of Oxford focused on vaccine discovery. Her research spans immunology, synthetic biology, and neuroscience, with experience across the University of Oxford, Stanford, and the Italian Institute of Technology. She is interested in leveraging disease heterogeneity to develop clinically translatable, scalable vaccines that minimize resistance.

HONORS AND AWARDS

- 2026 Ellison Scholarship, DPhil in Paediatrics, Ellison Institute of Technology, University of Oxford (2026)
- Stanford Major Grant Awardee, Stanford Vice Provost for Undergraduate Education (June 2025)
- Stanford Global Studies Summer Fellow, Stanford Global Studies
- Bio-X Undergraduate Fellow, Stanford Bio-X (June 2024)
- Haas Center Community Service Fellow, Haas Center for Public Service (June 2024)

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Speaker, TEDxStanford (2025 - 2025)
- Bio-X Undergraduate Fellow, Stanford BioX (2024 - 2024)
- Board Member, Stanford Down Syndrome Research Center (2023 - present)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Under mentorship of Jennifer Anne Co (PhD Candidate) in the Steven Banik Lab.

Engineering a molecular-glue detector in mammalian cells with CRISPR and degron based tools.

Creating platform for novel drug candidates through screening of a 15,000 protein ORFeome library.

Publications

PUBLICATIONS

- **Four Neotropical frog species exhibit shared and distinct skin bacterial communities in a laboratory setting.** *microPublication biology*
  Jansari, V., Castro-Martinez, D. A., Dailey, M. J., Roti, O., Seibert, M. R., Abdelghne, B. J., Aguilar, G. K., Amine, A., Ben-Efraim, K., Carolan, R. E., Carter, A. N., Chang, M., Dye, et al
  2026; 2026

- **Bay leaf extract is a chemotaxis repellent for C. elegans.** *microPublication biology*
  Wu, S. H., Amine, A., Ben-Efraim, K., Dye, N. J., Melian, M., Nakamura, K. C., Nemawarkar, R., Saigal, K., Sosa, H. M., Vo, L. T., Abdelghne, B. J., Aguilar, G. K., Carolan, et al
  2026; 2026

- **Selectively Blocking Small Conductance Ca2+-Activated K+ Channels Improves Cognition in Aged Mice.** *Biology*
  Ong, J., Heller, H. C., Pittaras, E.
  2025; 14 (2)