

Stanford



Avery Sun

Postdoctoral Scholar, Materials Science and Engineering

Bio

PROFESSIONAL EDUCATION

- Bachelor of Engineering, Southern University of Science & Technology (2021)
- Doctor of Philosophy, National University Of Singapore (2026)
- Ph.D., Mechanobiology Institute (MBI) & Biomedical Engineering Dept, National University of Singapore (2026)

STANFORD ADVISORS

- Sarah Heilshorn, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Mechanical memory primes cells for confined migration.** *Cell reports*
Lee, J. W., Chang, Y., Chitnis, M. S., Li, Y., Gao, X., Sun, A. R., Zhu, J., Young, J. L., Holle, A. W.
2026; 45 (4): 117267
- **Hybrid hydrogel-extracellular matrix scaffolds identify biochemical and mechanical signatures of cardiac ageing.** *Nature materials*
Sun, A. R., Ramli, M. F., Shen, X., Kannivadi Ramakanth, K., Chen, D., Hu, Y., Vidyasekar, P., Foo, R. S., Long, Y., Zhu, J., Ackers-Johnson, M., Young, J. L.
2025; 24 (9): 1489-1501
- **Isolation, Extraction, and Analysis of Cells After Confined Migration.** *Current protocols*
Gao, X., Li, Y., Lee, J. W., Zhou, J., Rangaraj, V., Sun, A. R., Young, J. L., Holle, A. W.
2025; 5 (9): e70204
- **All the small things: Nanoscale matrix alterations in aging tissues.** *Current opinion in cell biology*
Sun, A. R., Hengst, R. M., Young, J. L.
2024; 87: 102322