Stanford



Megan McSweeney

Postdoctoral Scholar, Bioengineering

Bio

PROFESSIONAL EDUCATION

- Ph.D., Georgia Institute of Technology , Chemical & Biomolecular Engineering (2024)
- B.S., University of Rhode Island , Chemical Engineering (2018)

STANFORD ADVISORS

- Michael Jewett, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Construction of an Array of Biosensors Using Density Evolution for MicroRNA Monitoring** *IEEE TRANSACTIONS ON MOLECULAR BIOLOGICAL AND MULTI-SCALE COMMUNICATIONS*
  Sethuraman, M. G., McSweeney, M. A., Styczynski, M. P., Fekri, F.
  2025; 11 (3): 335-343
- **A modular cell-free protein biosensor platform using split T7 RNA polymerase** *SCIENCE ADVANCES*
  Mcsweeney, M. A., Patterson, A. T., Loeffler, K., de Larrea, R., Mcnerney, M. P., Kane, R. S., Styczynski, M. P.
  2025; 11 (8): eado6280
- **Short Activators and Repressors of RNA Toehold Switches** *ACS SYNTHETIC BIOLOGY*
  McSweeney, M. A., Zhang, Y., Styczynski, M. P.
  2023; 12 (3): 681-688
- **Effective Use of Linear DNA in Cell-Free Expression Systems** *FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY*
  McSweeney, M. A., Styczynski, M. P.
  2021; 9: 715328