Stanford



Benjamin Shapero

Ph.D. Student in Earth System Science, admitted Autumn 2020

Bio

BIO

I am a geomicrobiologist and am broadly interested in the connections between protein biochemistry, environmental microbiology, and biogeochemistry. I hail from the surf town of Encinitas near San Diego. I completed my undergraduate studies at the University of Southern California (USC), where I majored in both Biological Sciences and Classical Saxophone Performance. At USC I volunteered in a cellular and molecular neuroscience lab, and it was there that I discovered my fascination with proteins. After graduation, I worked in a vaccine design lab at Scripps Research. This research fostered my growing fascination with protein biochemistry and further exposed me to the realm of microbiology. I have since followed my interests in proteins and microbiology, along with my longstanding passion for climate science, to the field of geomicrobiology. I am currently pursuing a Ph.D. in geomicrobiology at Stanford University in the Earth System Science department.

HONORS AND AWARDS

- Rose Hills Summer Research Fellowship, Rose Hills Foundation (2017)
- Provost's Undergraduate Research Fellowship, University of Southern California (2017)
- Renaissance Honors, University of Southern California (2018)

EDUCATION AND CERTIFICATIONS

- B.A., University of Southern California , Biological Sciences & Music (2018)

Research & Scholarship

LAB AFFILIATIONS

- Christopher Francis (9/14/2020)

Publications

PUBLICATIONS

- **Neutralizing Antibodies Induced by First-Generation gp41-Stabilized HIV-1 Envelope Trimers and Nanoparticles** *MBIO*
  Kumar, S., Lin, X., Ngo, T., Shapero, B., Sou, C., Allen, J. D., Copps, J., Zhang, L., Ozorowski, G., He, L., Crispin, M., Ward, A. B., Wilson, et al
  2021; 12 (3): e0042921
- **A V(H)1-69 antibody lineage from an infected Chinese donor potently neutralizes HIV-1 by targeting the V3 glycan supersite** *SCIENCE ADVANCES*
  Kumar, S., Ju, B., Shapero, B., Lin, X., Ren, L., Zhang, L., Li, D., Zhou, Z., Feng, Y., Sou, C., Mann, C. J., Hao, Y., Sarkar, et al
  2020; 6 (38)

- **Proof of concept for rational design of hepatitis C virus E2 core nanoparticle vaccines** *SCIENCE ADVANCES*
  He, L., Tzarum, N., Lin, X., Shapero, B., Sou, C., Mann, C. J., Stano, A., Zhang, L., Nagy, K., Giang, E., Law, M., Wilson, I. A., Zhu, et al
  2020; 6 (16): eaaz6225