


Stanford

Brian Hie

Postdoctoral Research Fellow, Biochemistry

 Curriculum Vitae available Online

Bio

PROFESSIONAL EDUCATION

- Bachelor of Science, Stanford University , ENGL-MIN (2016)
- Bachelor of Science, Stanford University , CS-BSH (2016)
- Ph.D., Massachusetts Institute of Technology , Electrical Engineering and Computer Science (2021)
- B.S. with Honors and Distinction, Stanford University , Computer Science (2016)

STANFORD ADVISORS

- Peter Kim, Postdoctoral Faculty Sponsor

PATENTS

- Brian Hie, Bryan Bryson, Bonnie Berger. "United States Patent 11,011,253 Escape profiling for therapeutic and vaccine development"

Publications

PUBLICATIONS

- **Schema: metric learning enables interpretable synthesis of heterogeneous single-cell modalities** *GENOME BIOLOGY*
Singh, R., Hie, B. L., Narayan, A., Berger, B.
2021; 22 (1): 131
- **Learning the language of viral evolution and escape** *SCIENCE*
Hie, B., Zhong, E. D., Berger, B., Bryson, B.
2021; 371 (6526): 284+
- **Leveraging Uncertainty in Machine Learning Accelerates Biological Discovery and Design** *CELL SYSTEMS*
Hie, B., Bryson, B. D., Berger, B.
2020; 11 (5): 461+
- **Computational Methods for Single-Cell RNA Sequencing** *ANNUAL REVIEW OF BIOMEDICAL DATA SCIENCE, VOL 3, 2020*
Hie, B., Peters, J., Nyquist, S. K., Shalek, A. K., Berger, B., Bryson, B. D., Altman, R. B.
2020; 3: 339-364
- **Geometric Sketching Compactly Summarizes the Single-Cell Transcriptomic Landscape** *CELL SYSTEMS*
Hie, B., Cho, H., DeMeo, B., Bryson, B., Berger, B.
2019; 8 (6): 483+
- **Efficient integration of heterogeneous single-cell transcriptomes using Scanorama** *NATURE BIOTECHNOLOGY*
Hie, B., Bryson, B., Berger, B.
2019; 37 (6): 685+
- **Fine-mapping cis-regulatory variants in diverse human populations** *ELIFE*
Tehranchi, A., Hie, B., Dacre, M., Kaplow, I., Pettie, K., Combs, P., Fraser, H. B.

2019; 8

- **Realizing private and practical pharmacological collaboration** *SCIENCE*

Hie, B., Cho, H., Berger, B.

2018; 362 (6412): 347-350

- **Pooled ChIP-Seq Links Variation in Transcription Factor Binding to Complex Disease Risk** *CELL*

Tehranchi, A. K., Myrthil, M., Martin, T., Hie, B. L., Golan, D., Fraser, H. B.

2016; 165 (3): 730-741