

# Stanford

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## Joshua Frieman

Professor of Particle Physics and Astrophysics and, by courtesy, of Physics

### Bio

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#### BIO

I carry out theoretical and observational research in cosmology on topics including dark energy, dark matter, and inflation, using tools such as large-scale structure, gravitational lensing, and supernovae, with increasing focus on the application of machine learning to the analysis of cosmic surveys. Cosmology is akin to archaeology on the grand scale: as an archaeologist uses pottery shards to reconstruct an ancient civilization and how it evolved, cosmologists use both small- and large-scale data to reconstruct the origin and evolution of the universe and to probe fundamental physics.

#### ACADEMIC APPOINTMENTS

- Professor, Particle Physics and Astrophysics
- Professor (By courtesy), Physics

### Teaching

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#### STANFORD ADVISEES

##### Postdoctoral Faculty Sponsor

David Shlivko

##### Orals Evaluator

Tom Liu

##### Doctoral Dissertation Advisor (AC)

Ben Sherwin