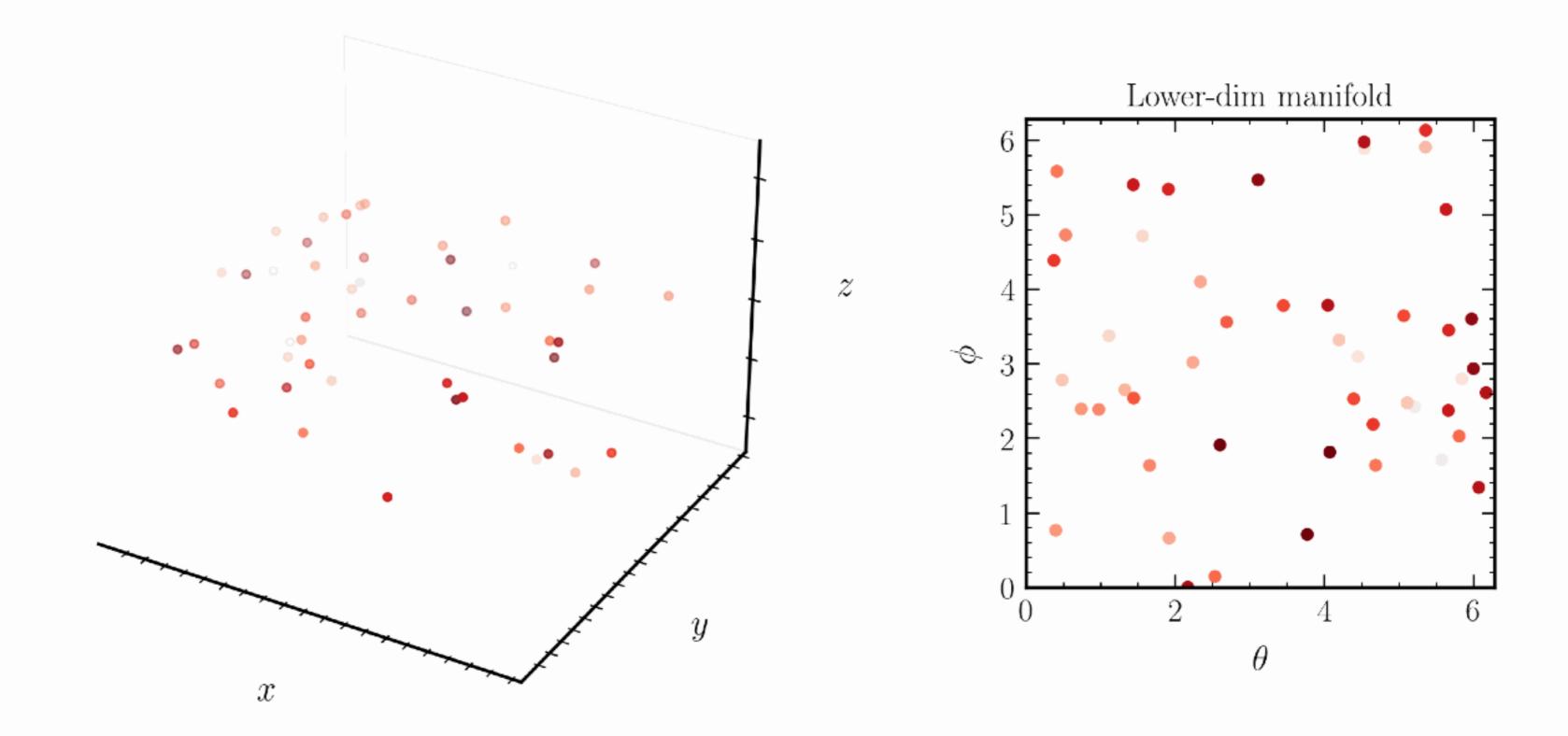
Siddharth Mishra-Sharma (MIT/IAIFI) | IAIFI Summer School



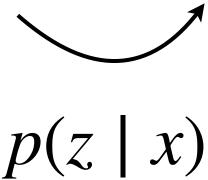


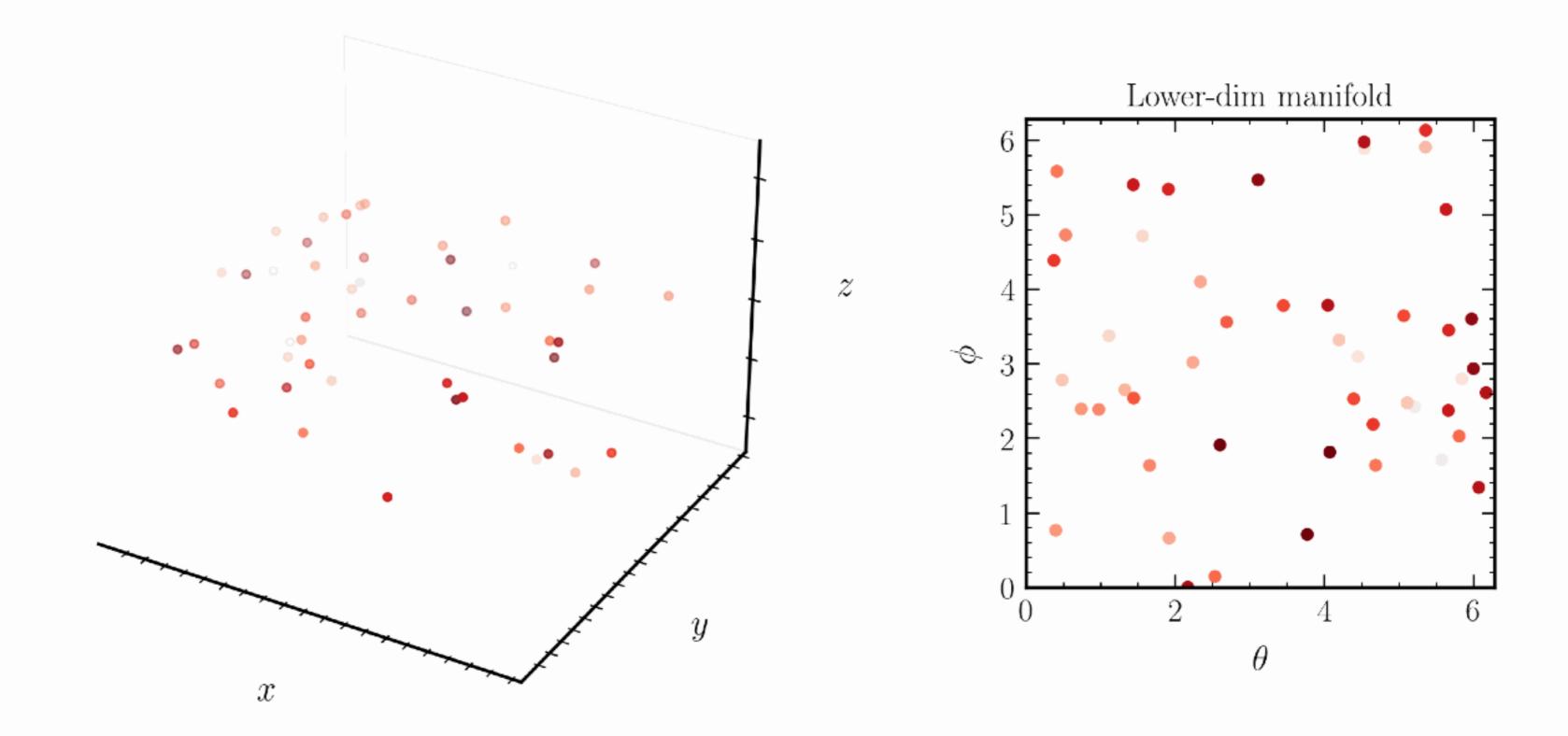
Real-world datasets often live in structured low-dimensional manifolds

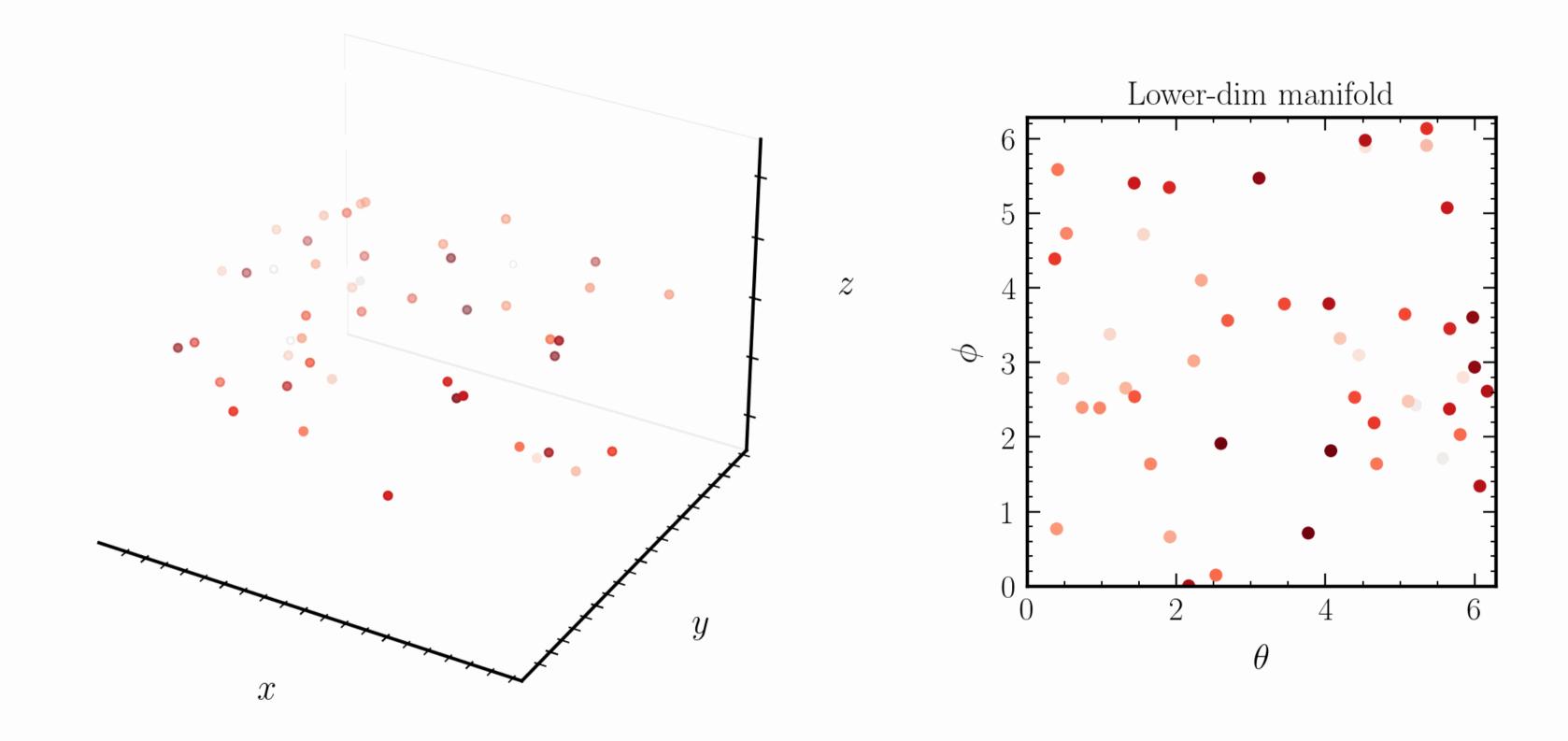
The pursuit of low-dimensional structure

"Easy to model" z

"Difficult to model" x

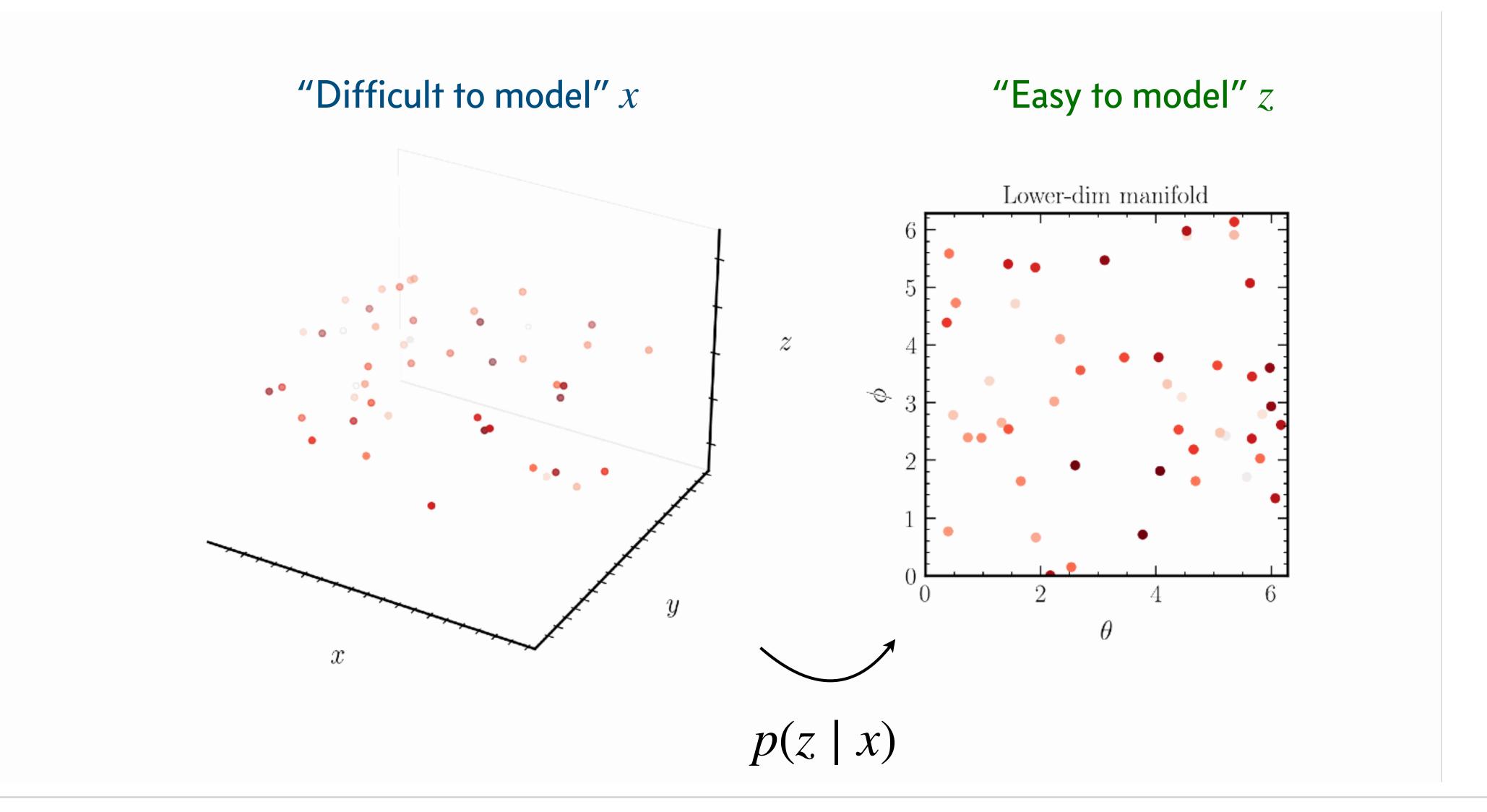






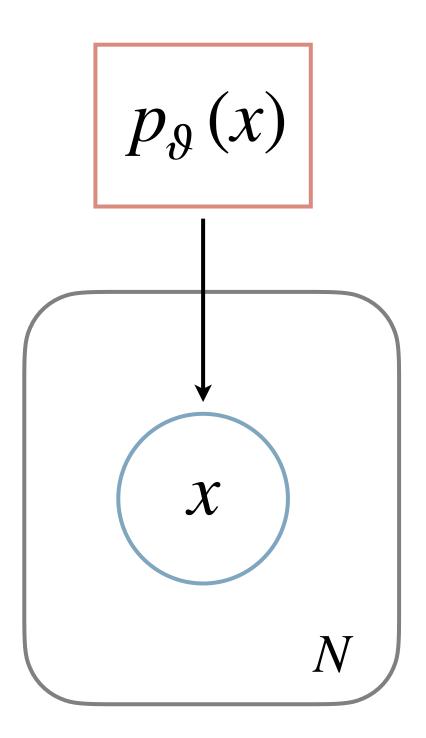
The pursuit of low-dimensional structure

Real-world datasets often live in structured low-dimensional manifolds



Latent-variable modeling

Learn lower-dimensional structure in the data distribution



Observed variables