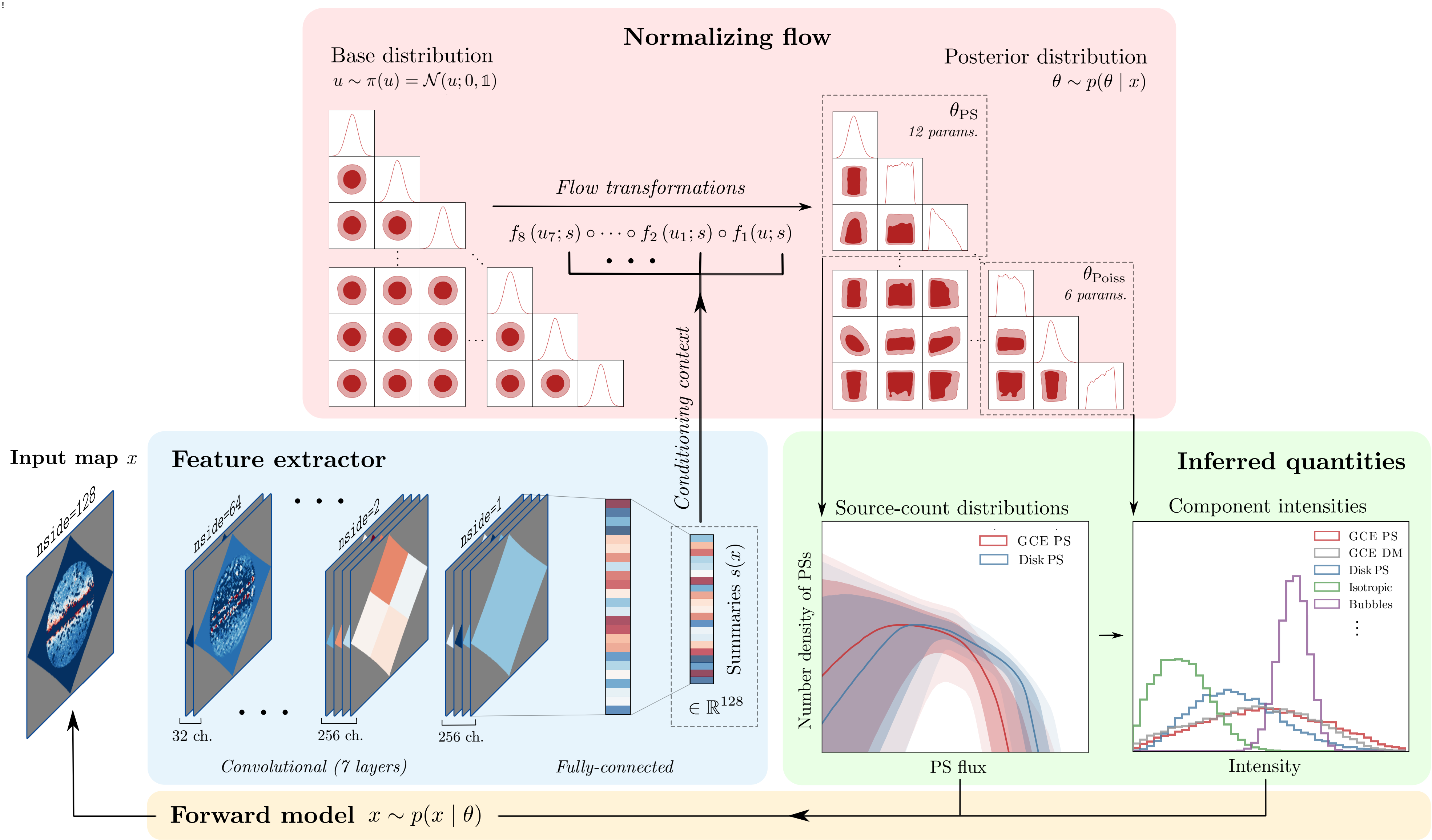


Siddhant Mishra-Sharma (MIT/AI FI) Summer School

162

61

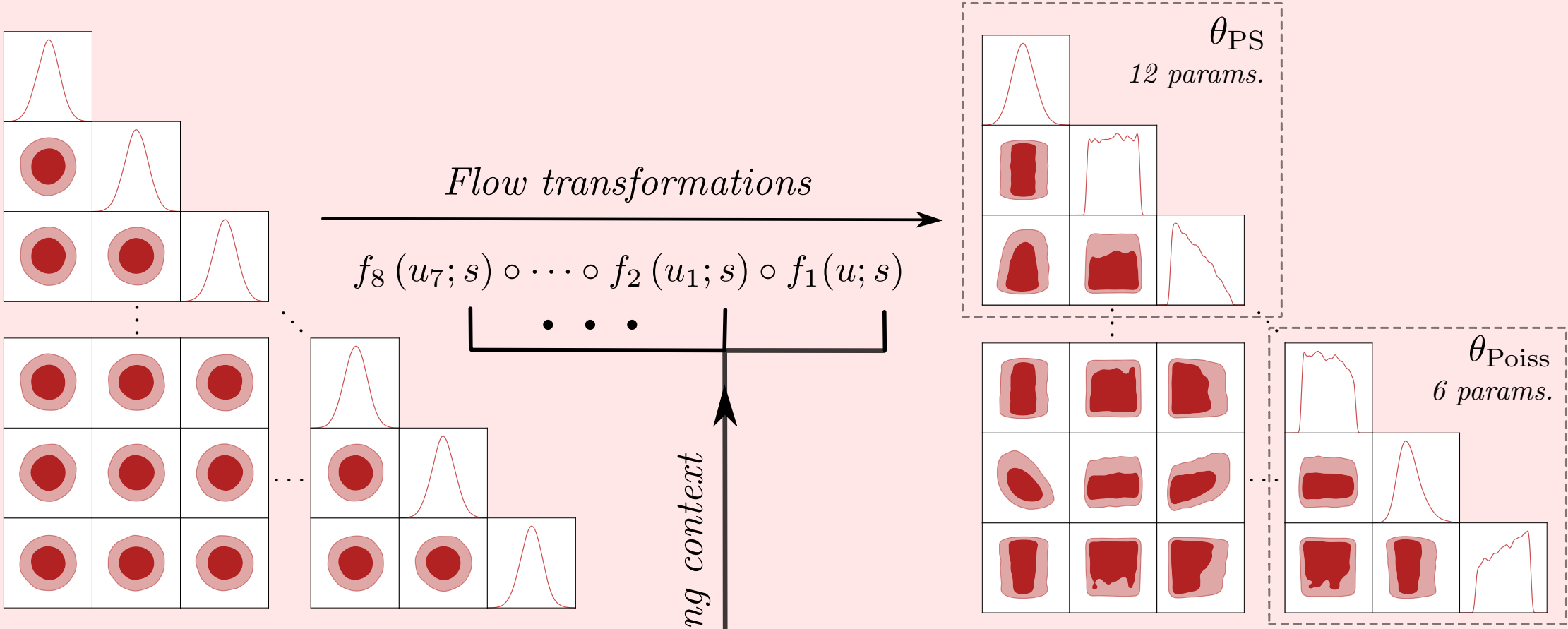
Flows in simulation-based inference: an application to γ -ray data



Normalizing flow

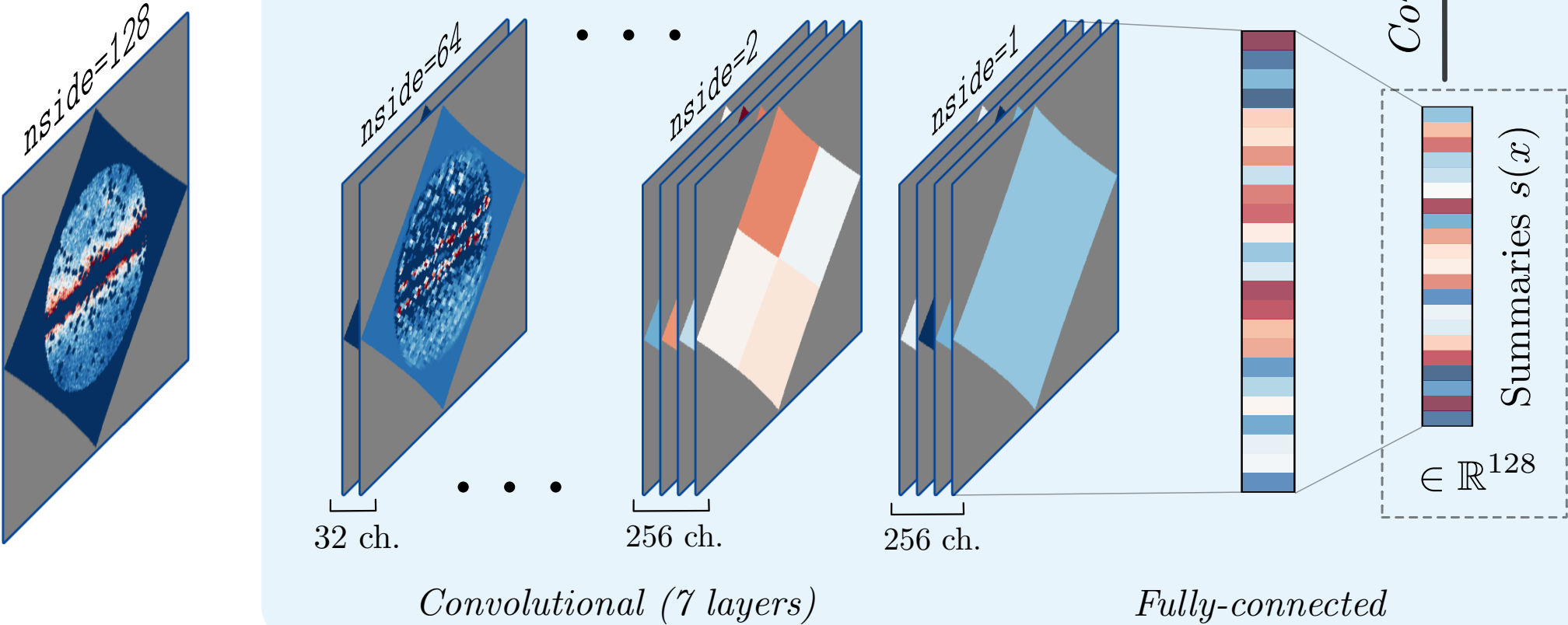
Base distribution
 $u \sim \pi(u) = \mathcal{N}(u; 0, \mathbb{1})$

Posterior distribution
 $\theta \sim p(\theta \mid x)$

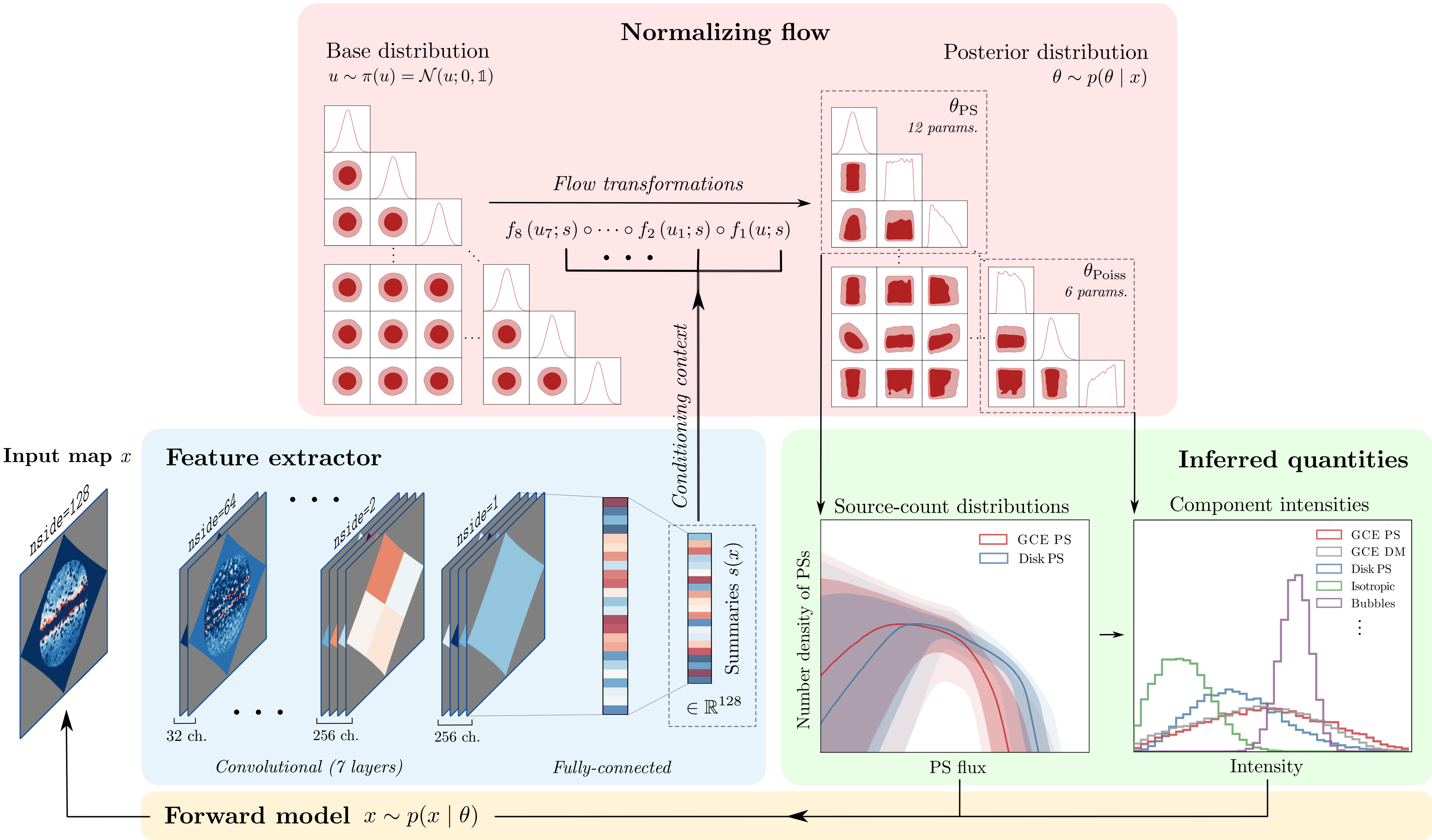


Input map x

Feature extractor



Flows in simulation-based inference: an application to γ -ray data



Back to diffusion: the *probability flow ODE*

For any diffusion process, there exists a corresponding deterministic process whose trajectories share the same marginal probability densities $p(x_t)$ as the SDE [Song et al 2021]

