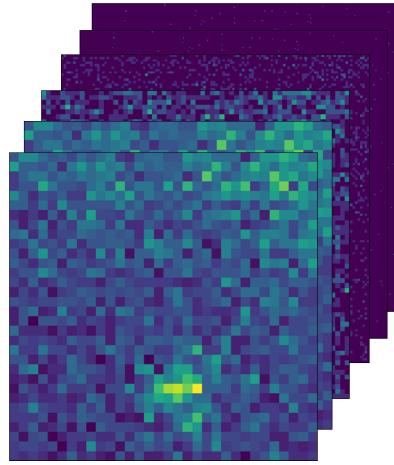


Complete Workflow of Source Location, Flux Estimation (+Uncertainty), Classification

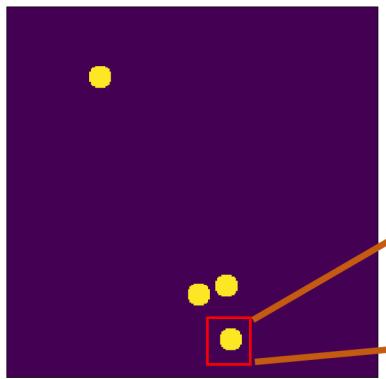
Localization

$\sim 10^\circ \times 10^\circ$ Patches



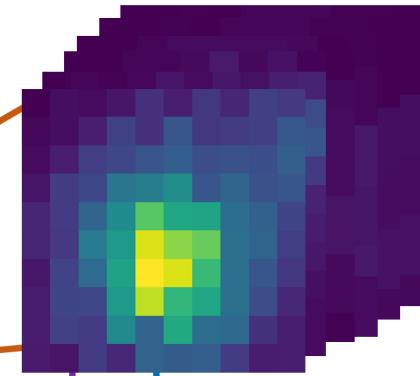
1. MIUN
2. LoG

Resolution: $\sim 0.1^\circ$



(Lat, Lon), Pixel Probability

10 × 10 Pixels



CNN

Deep Ensemble

*Flux Estimation
+
Uncertainty
($S_1, \delta S_1$)*

*Location Uncertainty
in degree
($l', b', \delta l', \delta b'$)*

*Sigmoid
Probabilities*
[TRUE: 0.94]
[FAKE: 0.06]