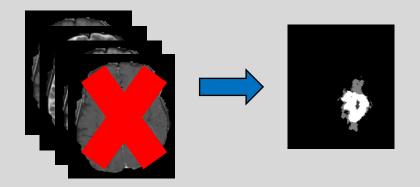
## Motivation

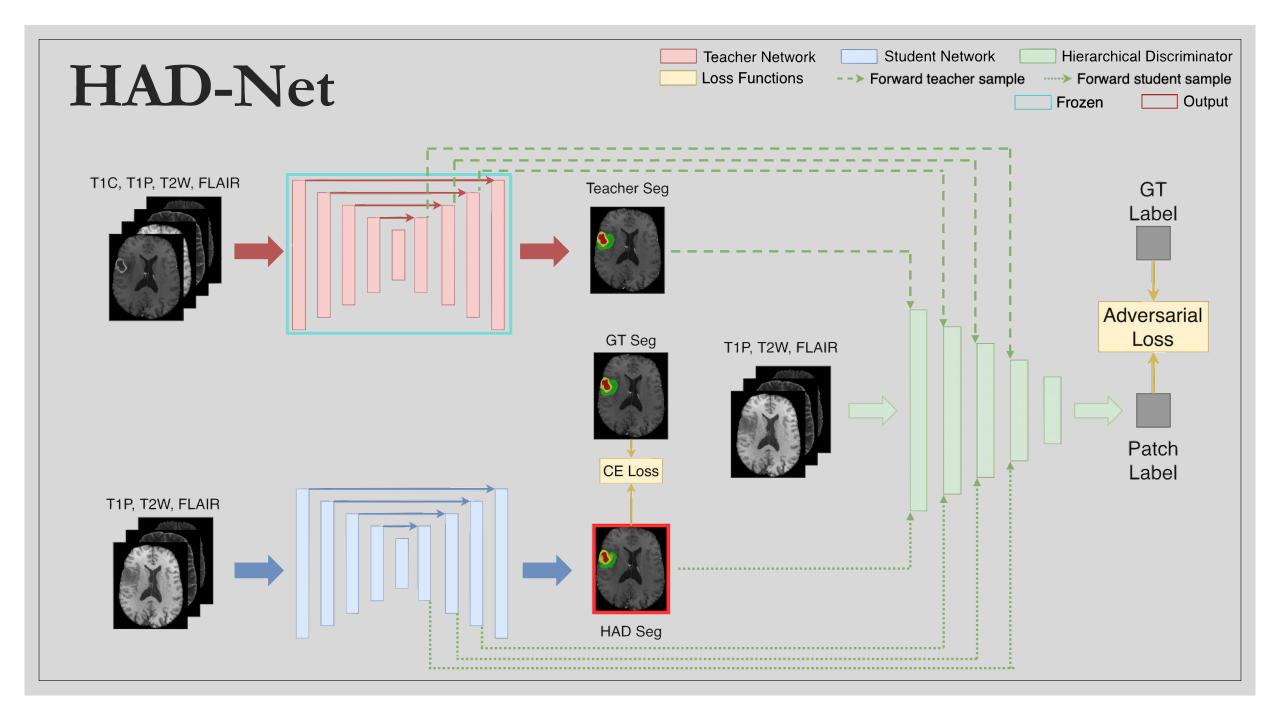
- ° Contrast agent injection (e.g., Gadolinium)
  - o No longer thought to be safe for patients
  - Increases invasiveness



• Focus on developing a network capable of providing improved enhancing brain tumor segmentations when post-contrast images are unavailable.

## Novelty

- Teacher network distills knowledge to a student network, via a hierarchical discriminator, to produce better segmentations when crucial information is missing.
  - While adversarial KD techniques exist, they are not hierarchical.
  - While hierarchical discriminators exist, they are not used in the context of KD.
  - Therefore, HAD-Net is the first method to effectively combine these two components to provide a KD technique capable of better bridging large domain gaps.



## Results

