

# A data augmentation approach for sign-language-to-text translation in-the-wild

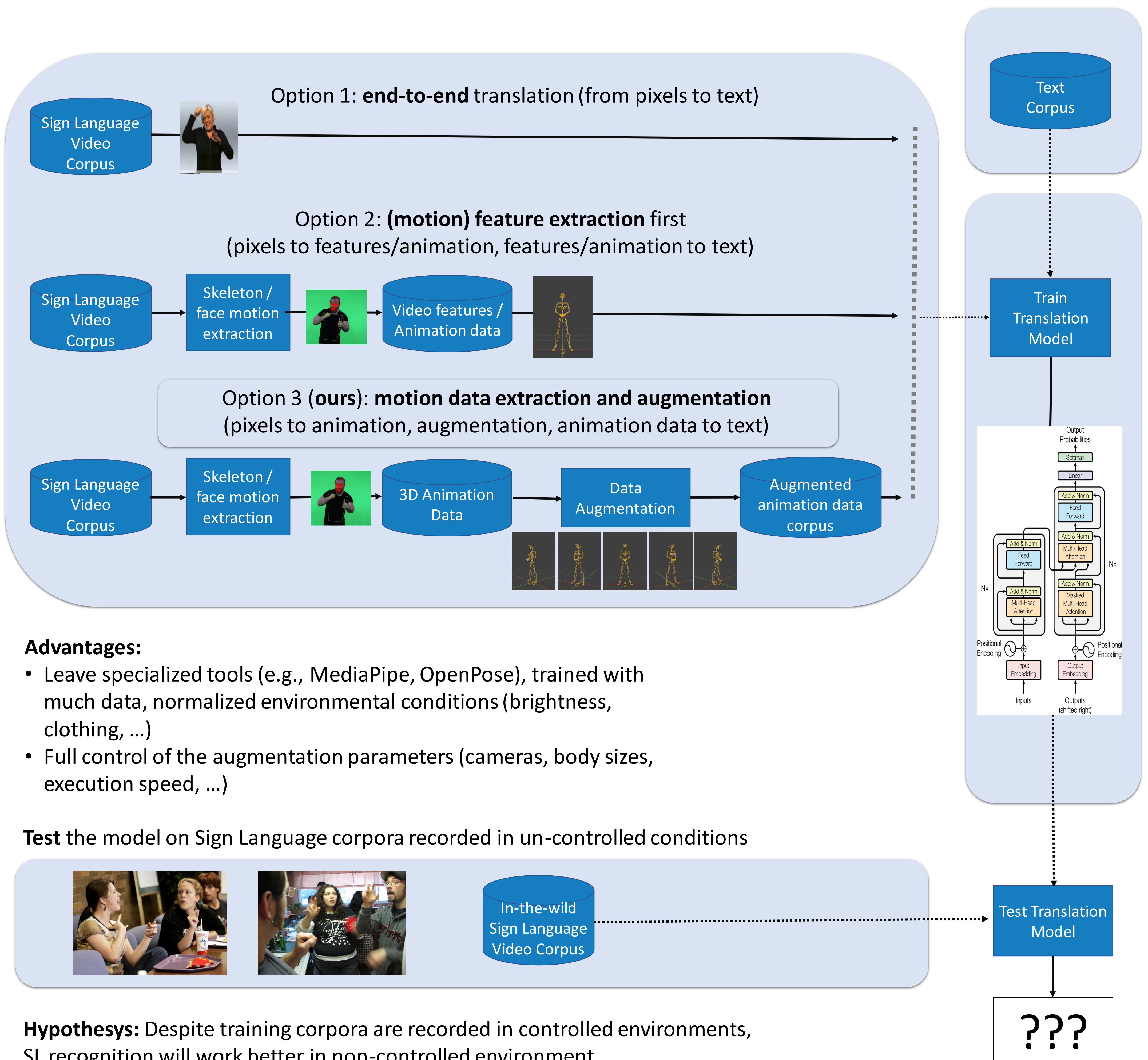
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**Problem:** most SL-video-to-text translation systems focus on frontal view recognition of sign language performances in very controlled environments

**However:** real settings are subject to different conditions: illumination, angle of view, cameras, clothing, background, skin tones, body proportions, ...

**Our Approach:** let specialized tools extract animation information and augment on a normalized and controlled environment



## Advantages:

- Leave specialized tools (e.g., MediaPipe, OpenPose), trained with much data, normalized environmental conditions (brightness, clothing, ...)
- Full control of the augmentation parameters (cameras, body sizes, execution speed, ...)

**Test** the model on Sign Language corpora recorded in un-controlled conditions



**Hypothesis:** Despite training corpora are recorded in controlled environments, SL recognition will work better in non-controlled environment