

Table 1: Examples of EMG-to-phoneme sequence translations. We do translations using EMG collected during *silent* articulations (E_S) with CTC loss without making use of corresponding time aligned *audio* (A) and EMG collected during *audible* articulation (E_A). **Ground truth sentences with corresponding timestamps.** Ground truth phonemic transcriptions. **Decoded phonemic transcriptions.** **Decoded sentences.**

<p>Top-3 (best) transcribed sentences</p> <hr/> <p>T-START <IT WAS PAID FOR>T-END IH-T SPACE W-AA-Z SPACE P-EY-D SPACE F-AO-R</p> <p>IH-T SPACE W-AA-Z SPACE P-EY-T SPACE F-AO-R IT WAS PAY FOR</p> <hr/> <p>T-START <IT'S A COMMUNITY CENTER>T-END IH-T-S SPACE AH SPACE K-AH-M-Y-UW-N-AH-T-IY SPACE S-EH-N-T-ER</p> <p>IH-T-S SPACE AH SPACE K-AH-M-Y-UW-N-IH-T-IY SPACE S-EH-N-T-ER-N IT'S A COMMUNITY CENTER</p> <hr/> <p>T-START <JUST ALL DIFFERENT COLORS>T-END J-AH-S-T SPACE AO-L SPACE D-IH-F-ER-AH-N-T SPACE K-AH-L-ER-Z</p> <p>J-AH-S-T SPACE AO-L SPACE D-IH-F-ER-AH-N SPACE SPACE K-IH-L-ER-Z JUST ALL DIFFERENT COLORS</p>
<p>Bottom-3 (worst) transcribed sentences.</p> <hr/> <p>T-START <THE DEATH PENALTY>T-END DH-AH SPACE D-EH-TH SPACE P-EH-N-AH-L-T-IY</p> <p>IH SPACE DH-IH-T SPACE IH-K SPACE P-AY SPACE AE-K THAT THICK MY BACK</p> <hr/> <p>T-START <HE DOES THE YARD>T-END HH-IY SPACE D-AH-Z SPACE DH-AH SPACE Y-AA-R-D</p> <p>IH-IH-T SPACE IH-S SPACE N-IH-N-T SPACE AY-T IT ITS KNIT MIGHT</p> <hr/> <p>T-START <THAT'S AWFUL>T-END TH-AE-T-S SPACE AA-F-AH-L</p> <p>DH-EH-R SPACE AH SPACE T-OY-T THERE A POINT</p>