

File name: Supplementary Movie 1

Description: Reconstruction of tongue shape principal components. Rendering generated with Autodesk Maya 2022.

File name: Supplementary Movie 2

Description: Real (black) and decoded (red) tongue shape from a representative test trial from monkey Ry. Marker positions are reconstructed from the 7 independently decoded shape principal components. Decoder input was the time-varying firing rates of 100 primary motor cortex neurons. Mandible is rendered for orientation purposes only, as shape-based marker positions are coordinate system independent. Playback speed is .25x real time. Rendering generated with Autodesk Maya 2022.