





Quantitative results on BIWI-Te	est-A and VOCA-Test.

Dataset	\mathbf{Method}	$\begin{array}{c} \mathbf{LVE} \downarrow \\ \times 10^{-4} \end{array}$	$\begin{array}{c} \mathbf{MVE} \downarrow \\ \times 10^{-3} \end{array}$	$\mathbf{UFVE}_{\times 10^{-3}} \downarrow$	$\mathbf{FDD} \downarrow \ \times 10^{-5}$	Params M	s Time s
BIWI	FaceFormer CodeTalker SelfTalk FaceDiffuser UniTalker-B-[D0] UniTalker-B-[D0-D7] UniTalker-L-[D0-D7]	4.9836 4.7914 4.2485 4.2985 4.3681 4.0804 3.8587	$7.2750 \\7.3784 \\6.9152 \\6.8088 \\6.8948 \\6.6458 \\6.4166$	$\begin{array}{c} 6.9081 \\ 7.0050 \\ 6.5428 \\ 6.6220 \\ 6.6277 \\ 6.3774 \\ \textbf{6.1483} \end{array}$	$\begin{array}{r} 4.0062 \\ 4.2147 \\ \textbf{3.5851} \\ 3.9101 \\ 4.6789 \\ 5.0438 \\ 5.2307 \end{array}$	109 561 539 189 92 92 313	$\begin{array}{c} 0.705 \\ 4.4 \\ 0.071 \\ 16.50 \\ 0.024 \\ 0.024 \\ 0.054 \end{array}$
		$\begin{array}{c} \mathbf{LVE} \downarrow \\ \times 10^{-5} \ m^2 \end{array}$	$\begin{array}{l} \mathbf{MVE} \downarrow \\ \times 10^{-3}m \end{array}$		$ \begin{array}{c} \mathbf{FDD} \downarrow \\ \times 10^{-7} m^2 \end{array} $	Params Time M s	
Vocaset	FaceFormer CodeTalker SelfTalk FaceDiffuser UniTalker-B-[D1] UniTalker-B-[D0-D7] UniTalker-L-[D0-D7]	$\begin{array}{c} 1.1696 \\ 1.1182 \\ 0.9626 \\ 0.9684 \\ 0.9381 \\ \textbf{0.8136} \\ 0.8303 \end{array}$	0.6364 0.5750 0.5665 0.5768 0.5695 0.5338 0.5524	$\begin{array}{c} 0.4972 \\ 0.4708 \\ 0.4805 \\ 0.4772 \\ 0.4829 \\ \textbf{0.4829} \\ \textbf{0.4756} \end{array}$	$2.4812 \\ 1.2594 \\ 1.0511 \\ 1.7335 \\ 1.2115 \\ 1.3962 \\ 1.5206$	$92 \\ 315 \\ 450 \\ 89 \\ 92 \\ 92 \\ 313$	$\begin{array}{c} 0.624 \\ 3.464 \\ 0.053 \\ 13.08 \\ 0.022 \\ 0.022 \\ 0.053 \end{array}$

Quantitative comparison between single dataset training and mixed dataset training. The metric is LVE. L-[D*] denotes the eight individual models trained on each dataset. L-[D0-D7] denotes UniTalker-Large trained on A2F-Bench. L-FT denotes the eight models finetuned from L-[D0-D7]

Method	D0 0.33h	D1 0.56h	D2 0.67h	$\mathbf{D3}$ $5.49\mathrm{h}$	D4 1.48h	$\mathbf{D5}$ $3.65\mathrm{h}$	$\mathbf{D6}$ $1.24\mathrm{h}$	D7 5.11h
L-[D*]	4.279	9.153	8.881	8.445	1.370	2.040	1.043	1.235
L-[D0-D7]	$3.859 \downarrow_{9.8\%}$	8.303 \ 9.3%	$8.648 \downarrow_{2.6\%}$	$8.991_{6.5\%}$	$1.326\downarrow_{3.2\%}$	$2.056_{0.8\%}$	$1.145_{9.7\%}$	$1.211 \downarrow_{1.9\%}$
L-FT	$3.816\downarrow_{11\%}$	$8.060 \downarrow_{12\%}$	$8.56 \downarrow_{3.5\%}$	$8.417\downarrow_{0.3\%}$	$1.30 \downarrow_{5.2\%}$	$1.848 \downarrow_{9.4\%}$	$0.998 \downarrow_{4.3\%}$	$1.178 \downarrow_{4.6\%}$

UniTalker: Scaling up Audio-Driven 3D Facial Animation through A Unified Model

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	D0	$\mathbf{D1}$	$\mathbf{D2}$	D3	D4	D5	D6	D7
[3]	4.491	9.916	9.887	9.812	1.585	2.217	1.351	1.409
	4.033	8.269	9.253	9.117	1.417	2.044	1.184	1.340
)]	4.080	8.136	9.776	9.053	1.392	1.975	1.158	1.264
2]	3.859	8.303	8.648	8.991	1.326	2.056	1.145	1.211