

Multi-PIE HR Dataset

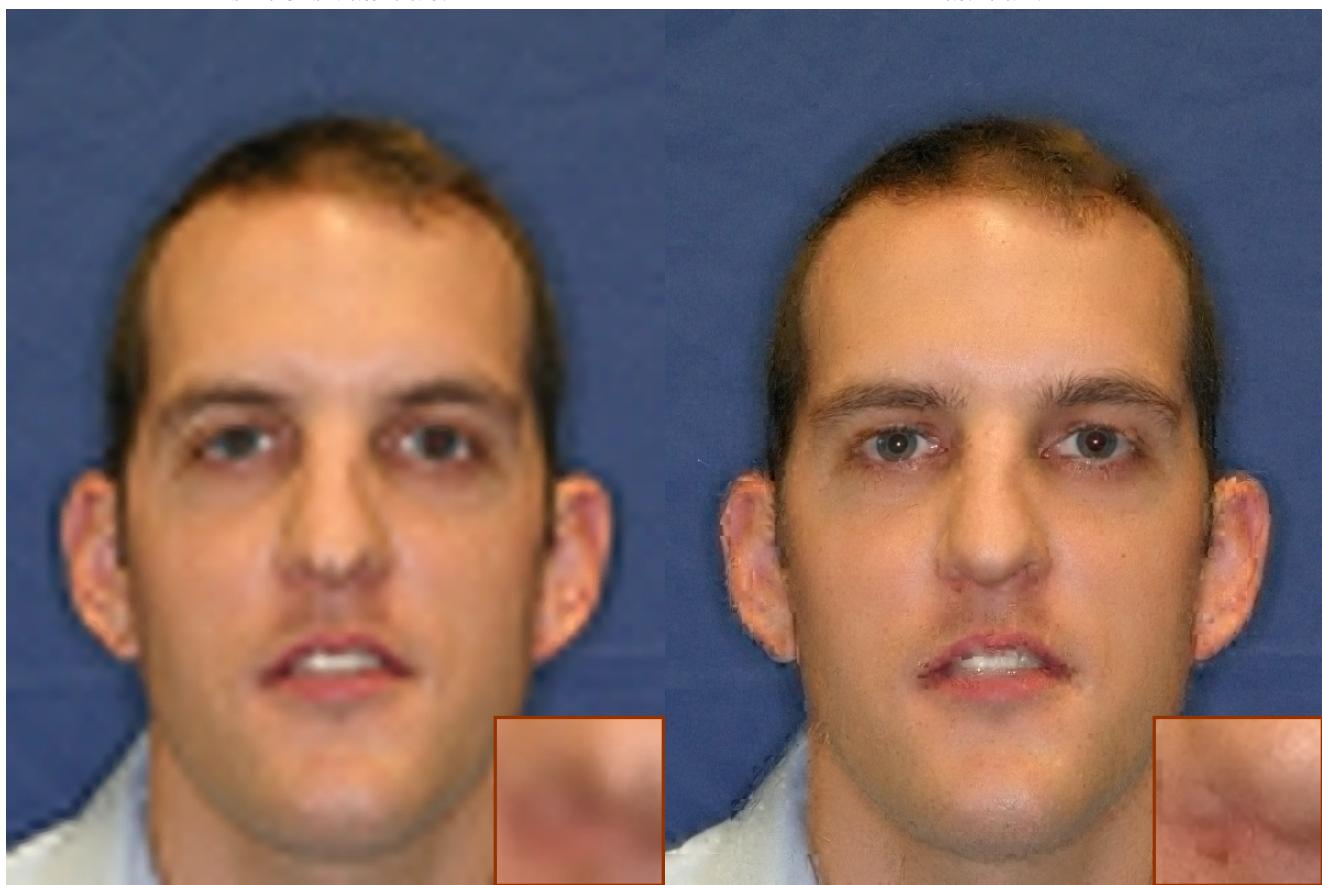
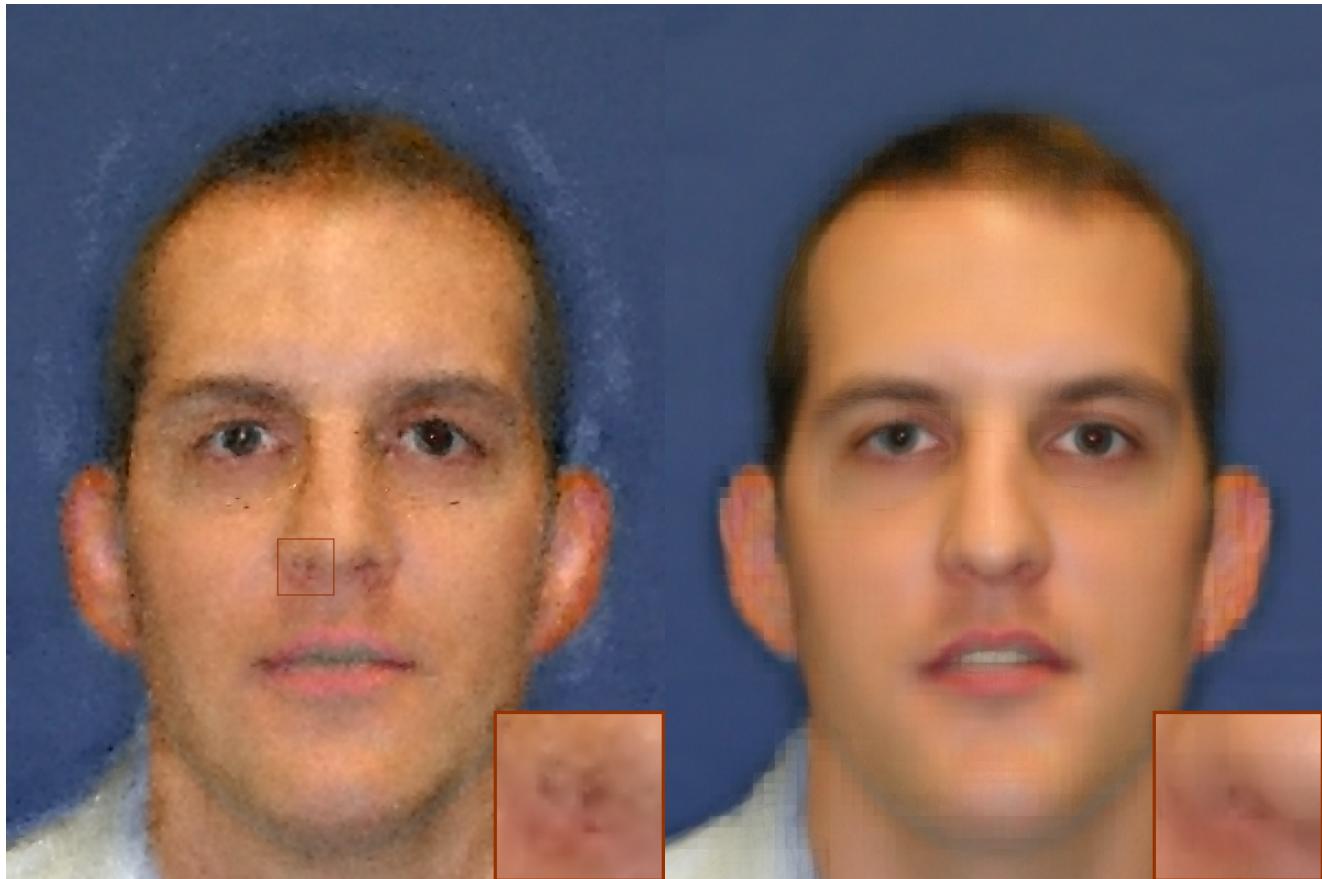
Evaluations

TABLE I: Multi-PIE HR Dataset

	Bicubic	Liu07 [24]	Ma10 [30]	Yang10 [46]	Yang13 [43]	Dong15 [4]	Gu15 [8]	Finetuned [4]	Proposed
PSNR	30.376	24.983	28.536	30.503	28.710	30.408	30.923	30.716	31.244
SSIM	0.731	0.659	0.719	0.752	0.640	0.751	0.755	0.741	0.761
FSIM	0.875	0.815	0.859	0.896	0.882	0.899	0.900	0.899	0.900
GMSD	0.118	0.148	0.134	0.108	0.118	0.107	0.106	0.107	0.105

Quantitative evaluations on Multi-PIE HR dataset.

In this file we show numerical and visual evaluations on Multi-PIE HR dataset. We involve Gu15 [20] for comparisons which is the most recent generic image SR method. The numerical evaluation is shown in Table I and visual evaluation is shown from Fig. 1 to Fig. 5.



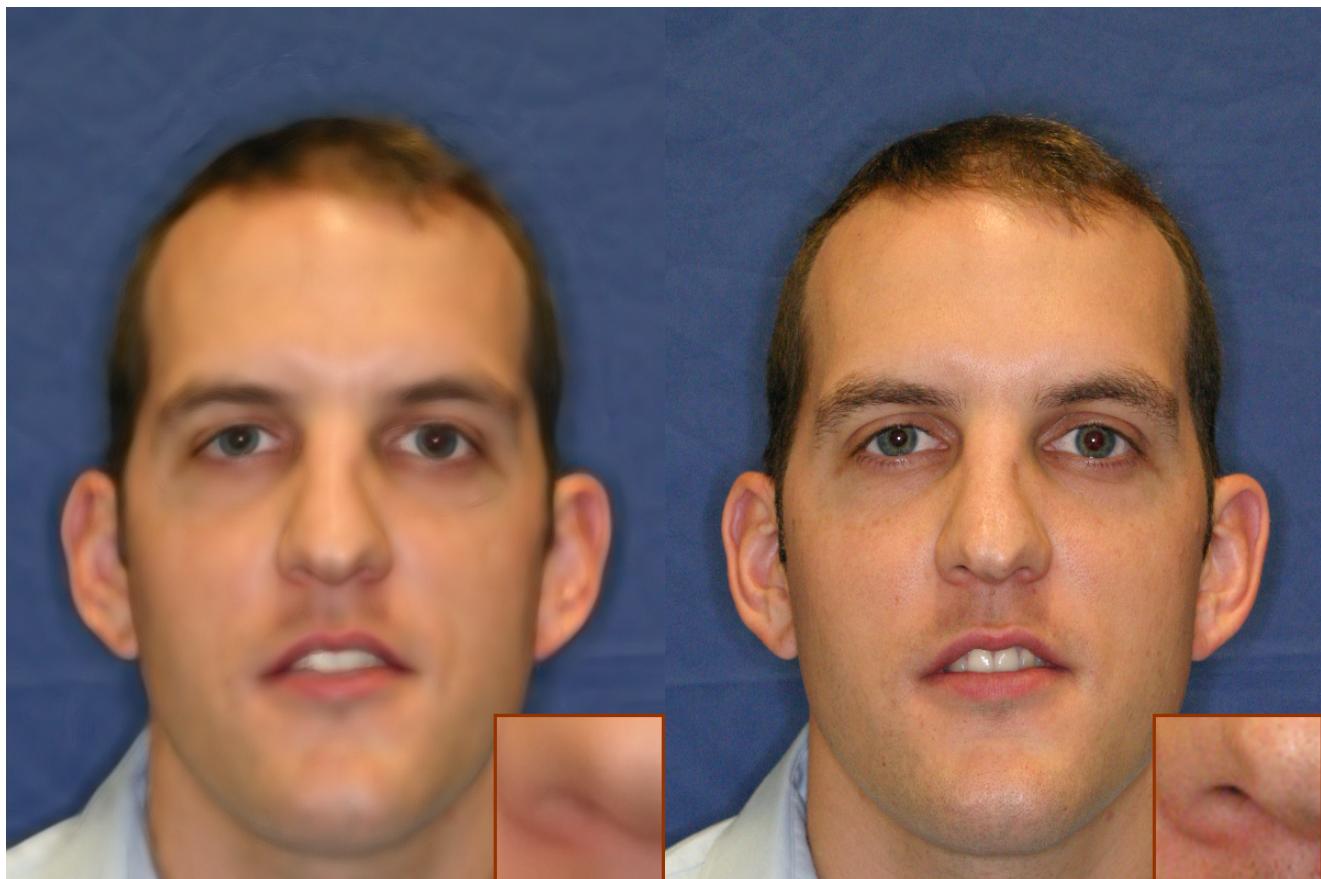
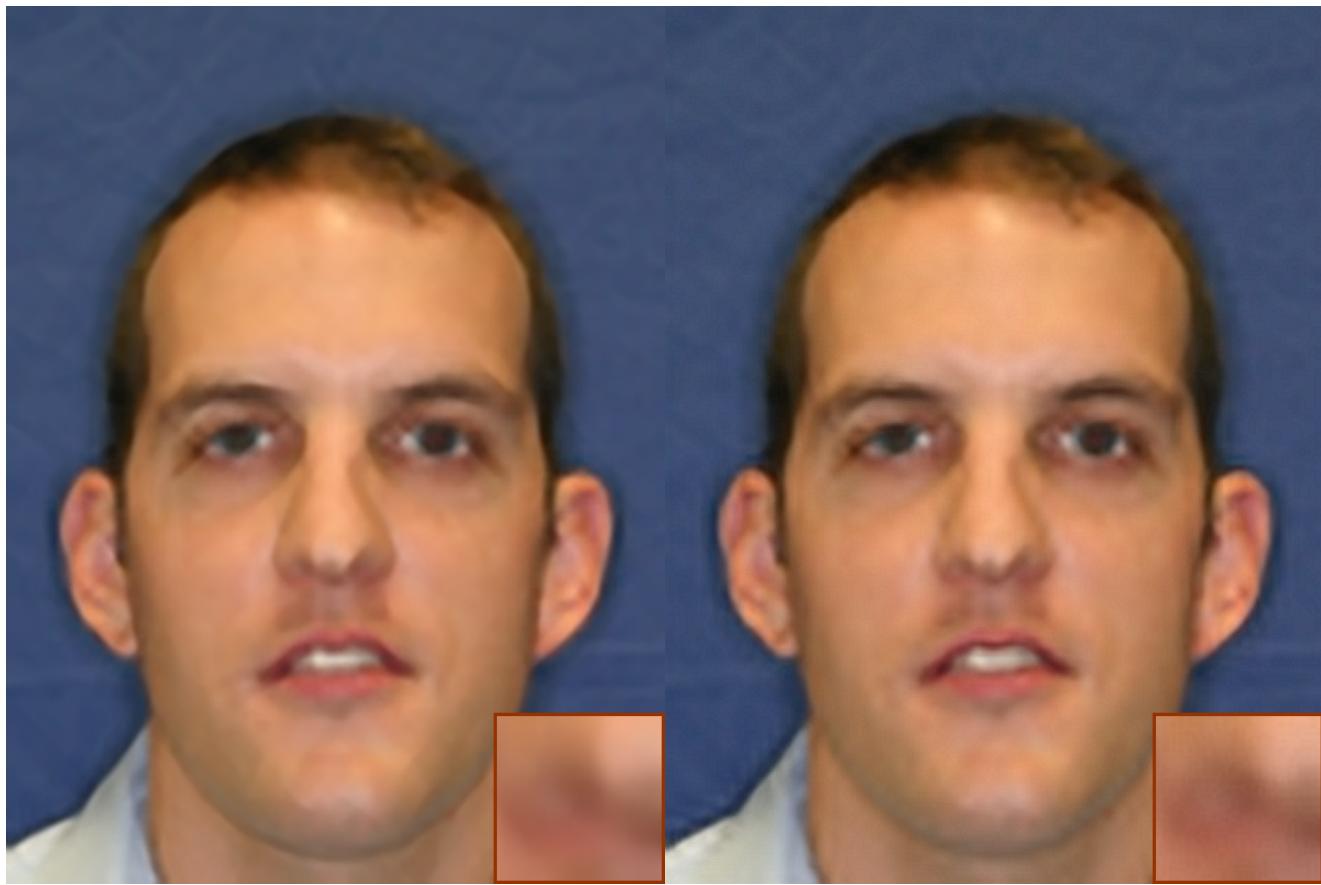


Fig. 1: Visual evaluation for $10 \times$ upsampled face image.



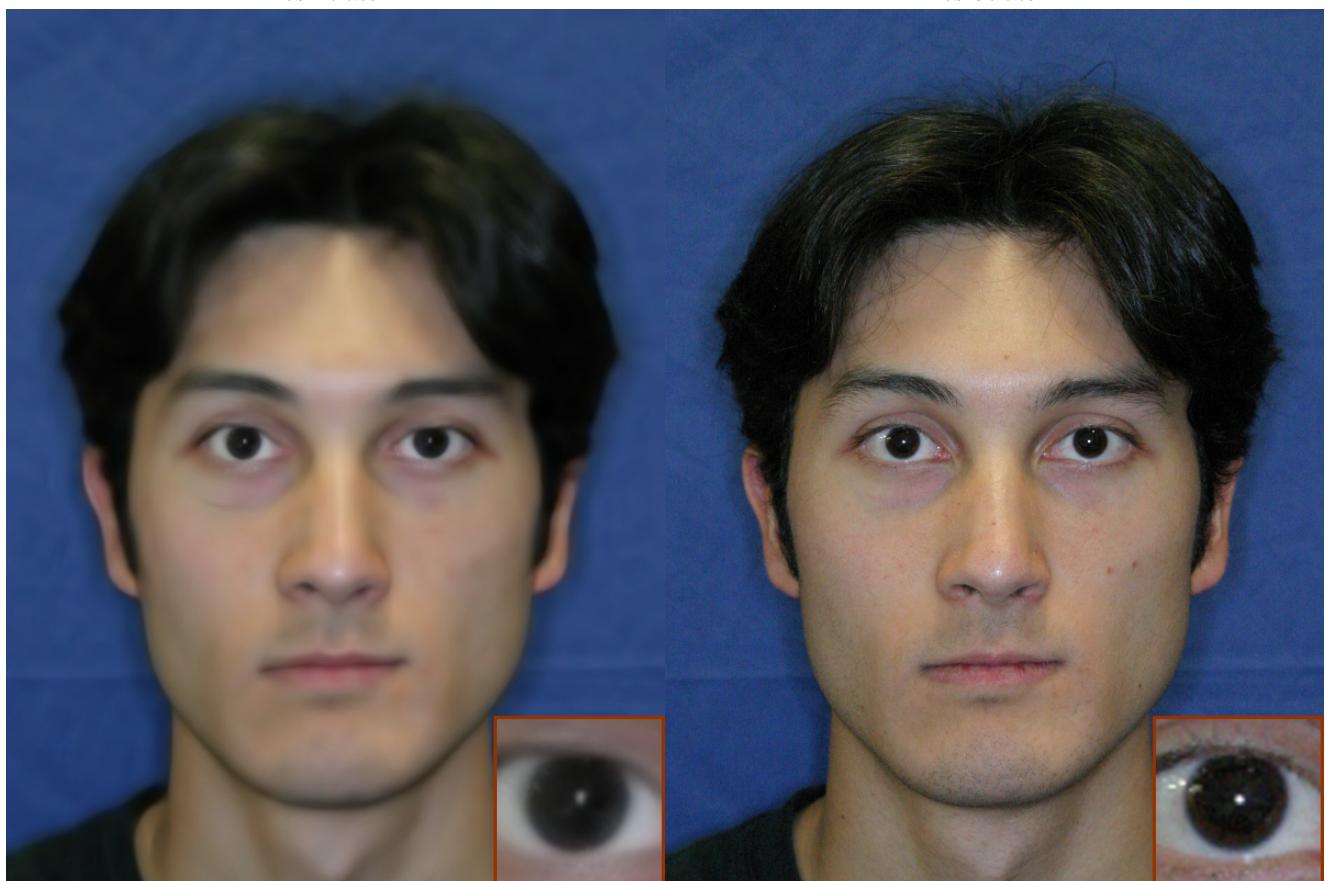
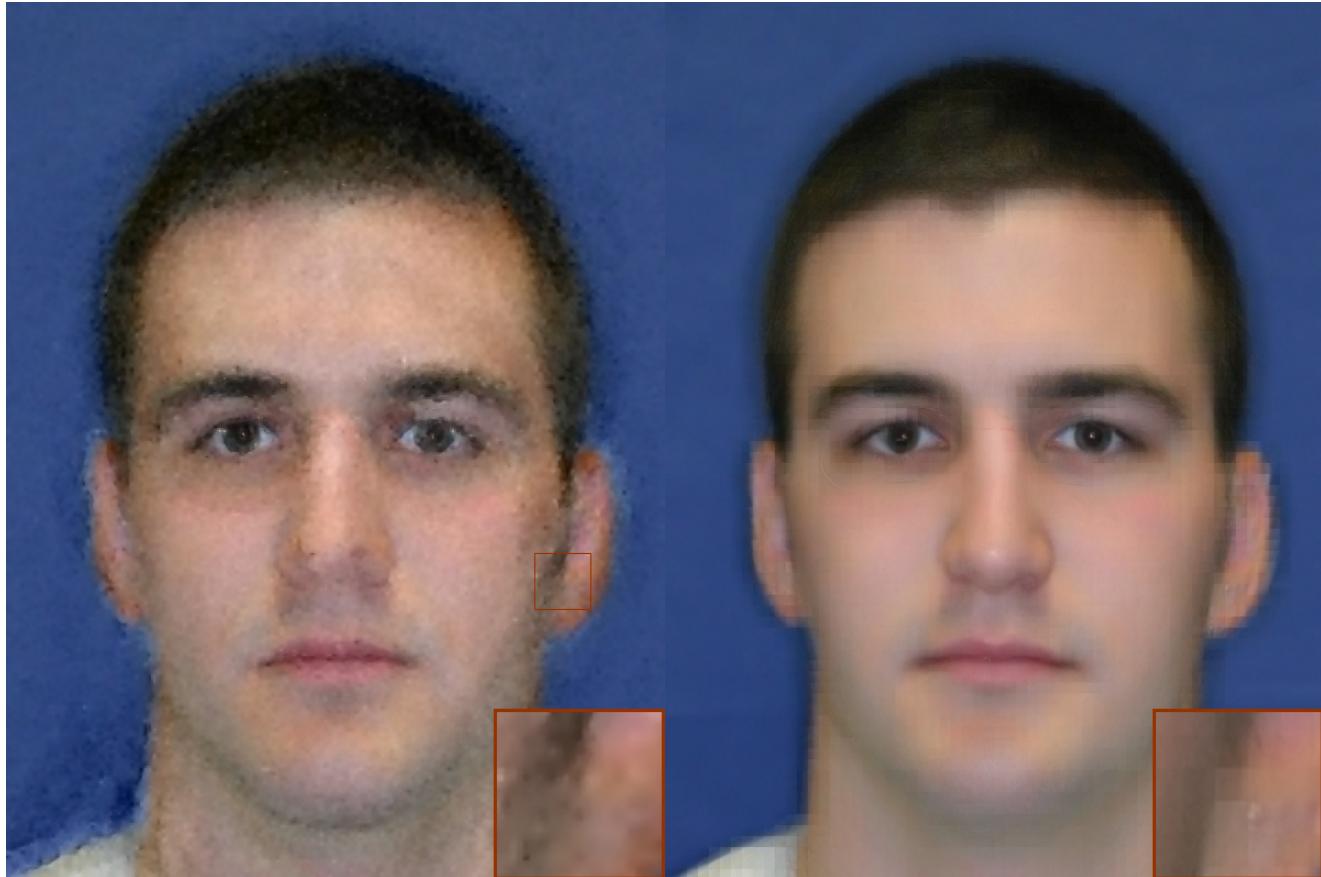


Fig. 2: Visual evaluation for $10 \times$ upsampled face image.

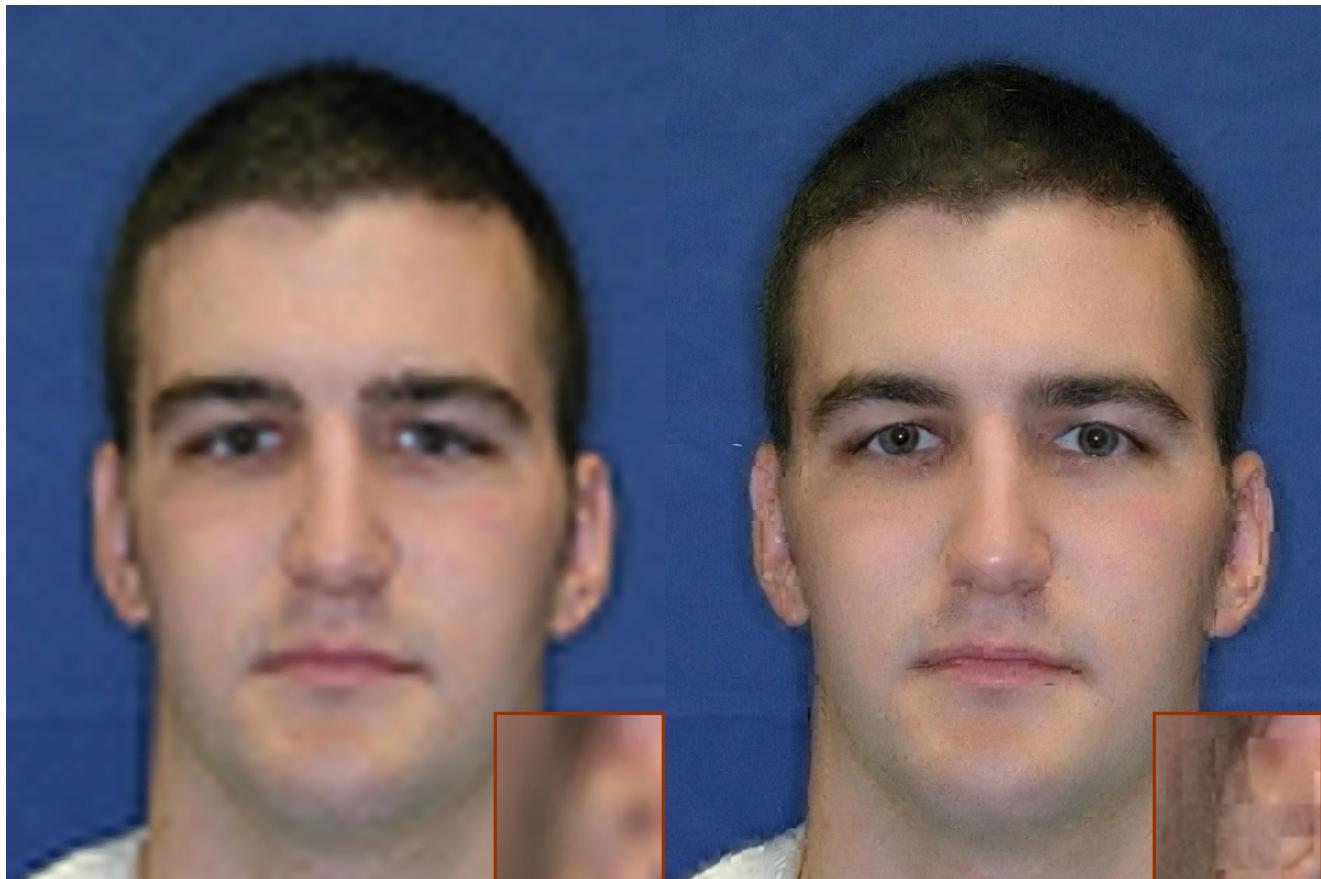


(a) Liu07 [24]

PSNR / SSIM: 25.604 / 0.717
FSIM / GMSD: 0.835 / 0.135

(b) Ma10 [30]

29.851 / 0.776
0.887 / 0.109



(c) Yang10 [46]

31.790 / 0.797
0.911 / 0.094

(d) Yang13 [43]

29.766 / 0.691
0.902 / 0.101

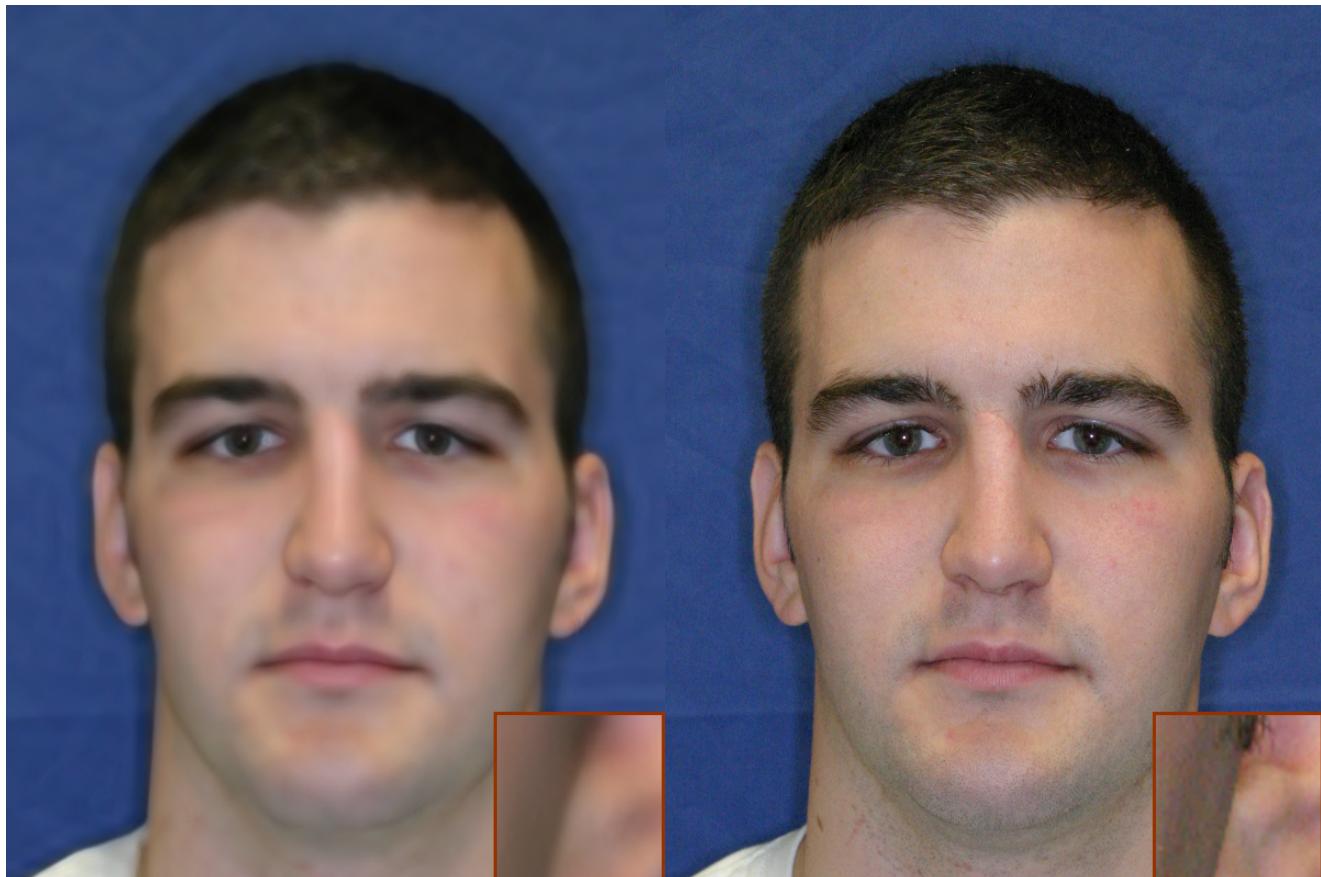


(e) Gu15 [8]

$32.557 / 0.808$
 $0.919 / 0.087$

(f) Finetuned [4]

$31.942 / 0.786$
 $0.917 / 0.090$



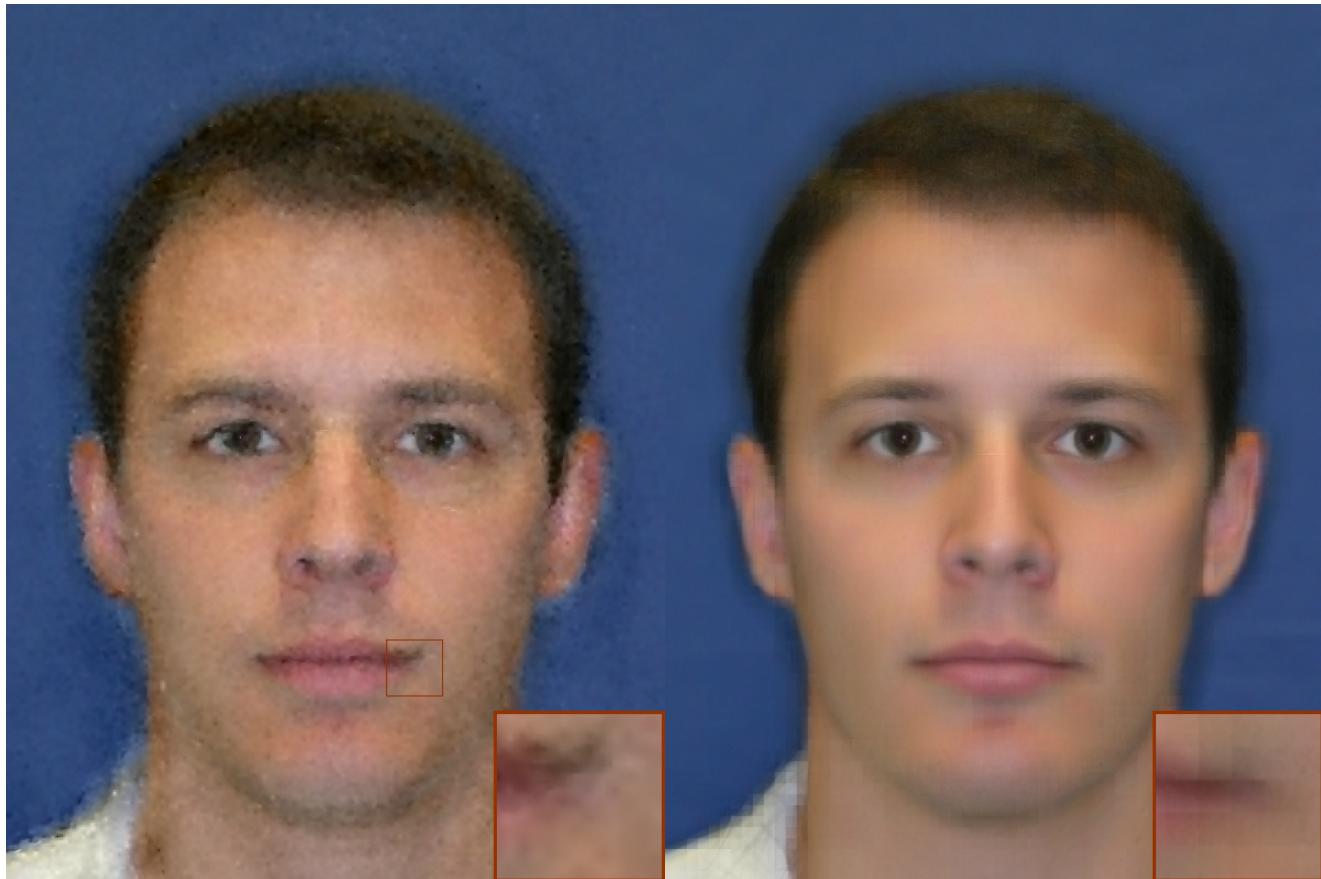
(g) Proposed

$32.930 / 0.811$
 $0.924 / 0.080$

(h) Ground Truth

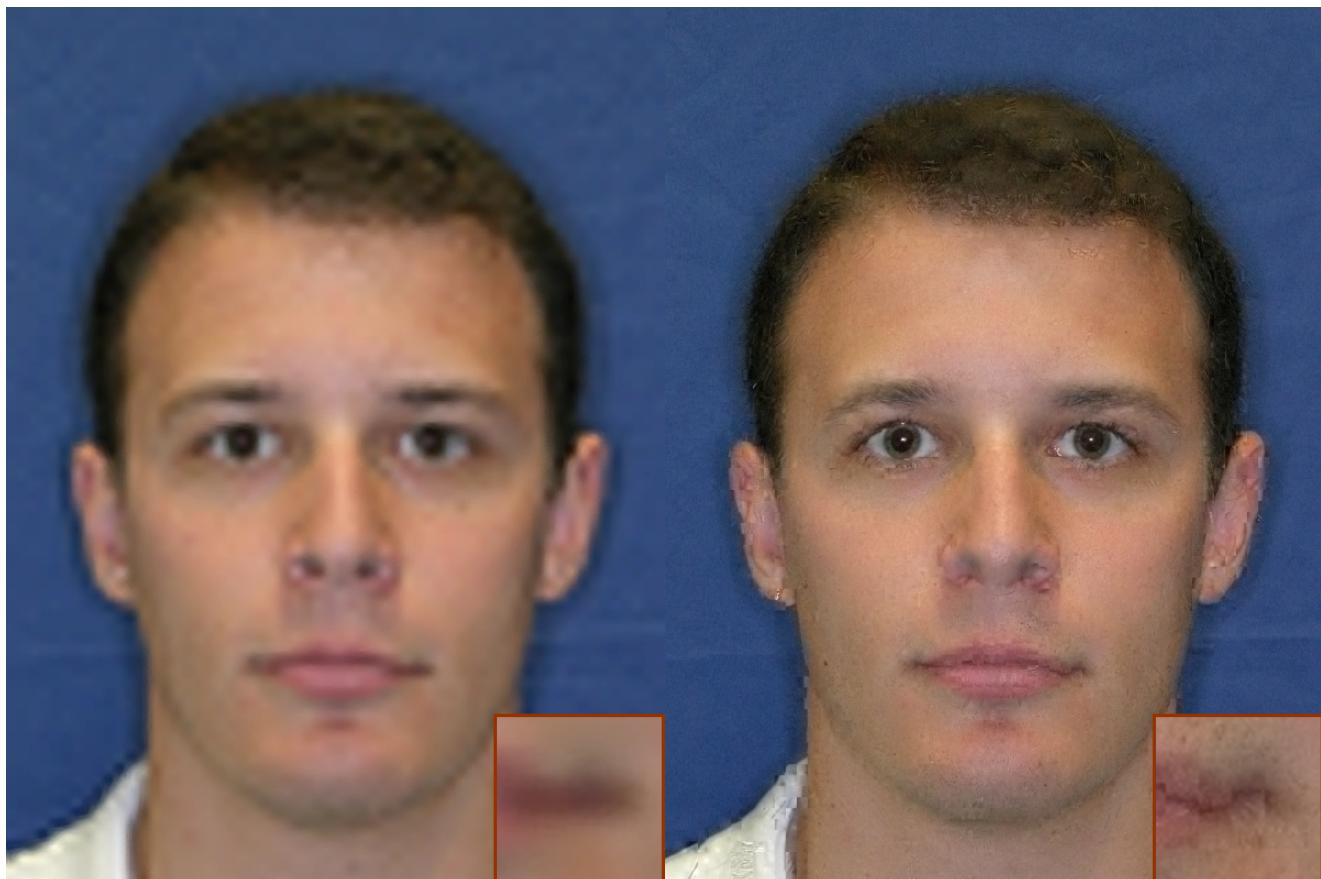
$+\infty / 1$
 $1 / 0$

Fig. 3: Visual evaluation for $10 \times$ upsampled face image.



(a) Liu07 [24]
PSNR / SSIM: 26.229 / 0.720
FSIM / GMSD: 0.844 / 0.129

(b) Ma10 [30]
29.898 / 0.775
0.890 / 0.105



(c) Yang10 [46]
32.013 / 0.793
0.910 / 0.09

(d) Yang13 [43]
29.897 / 0.686
0.901 / 0.103

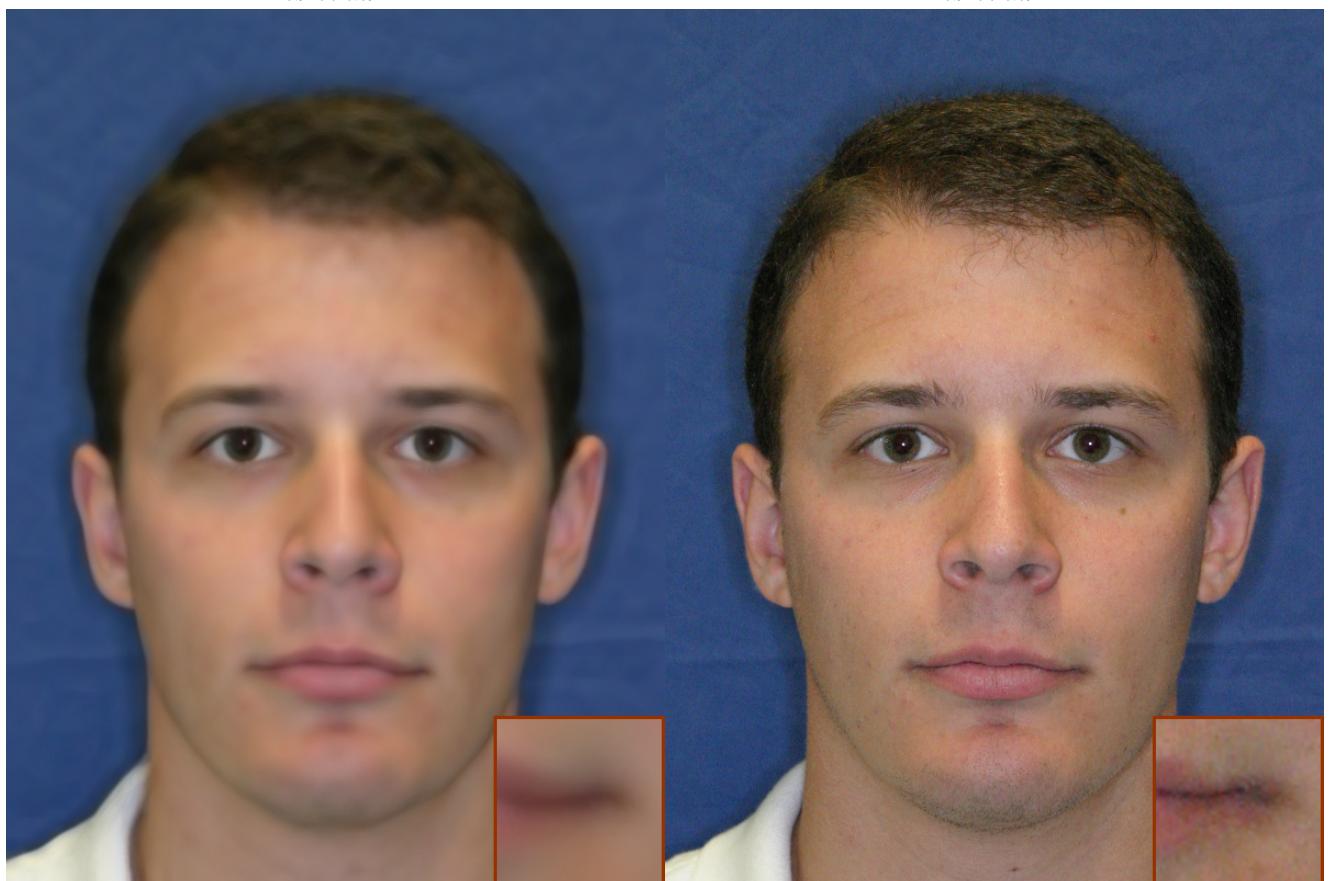
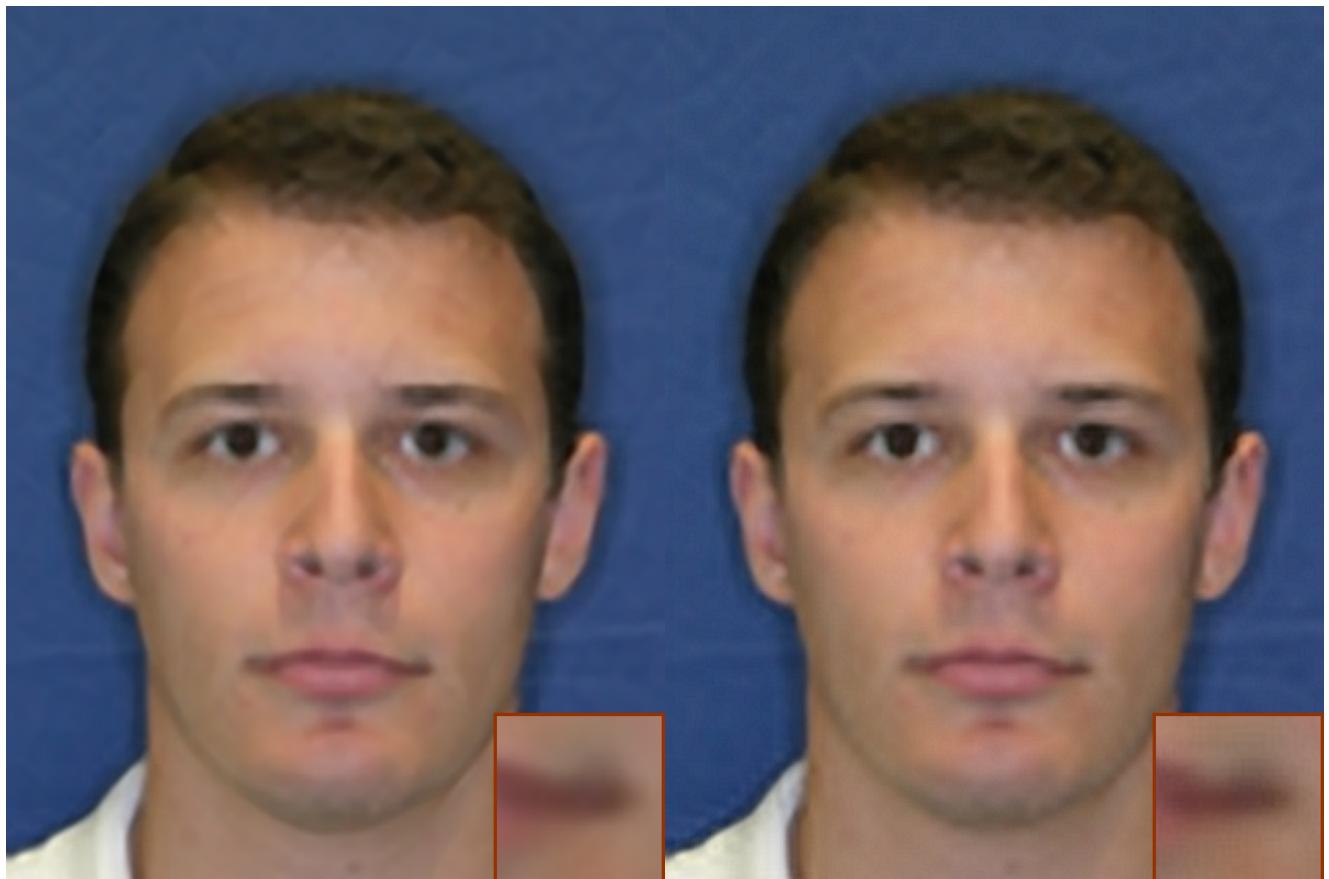
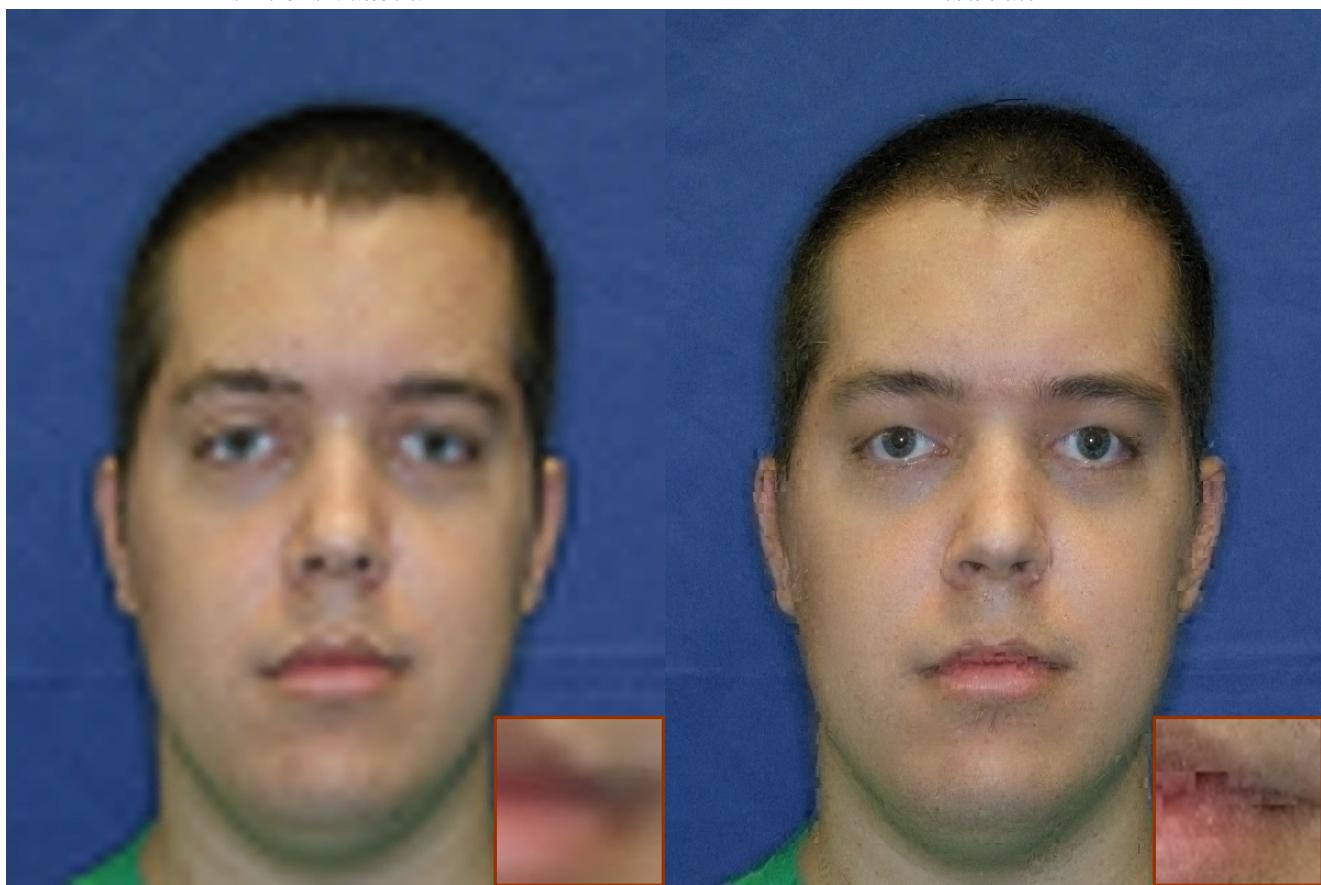
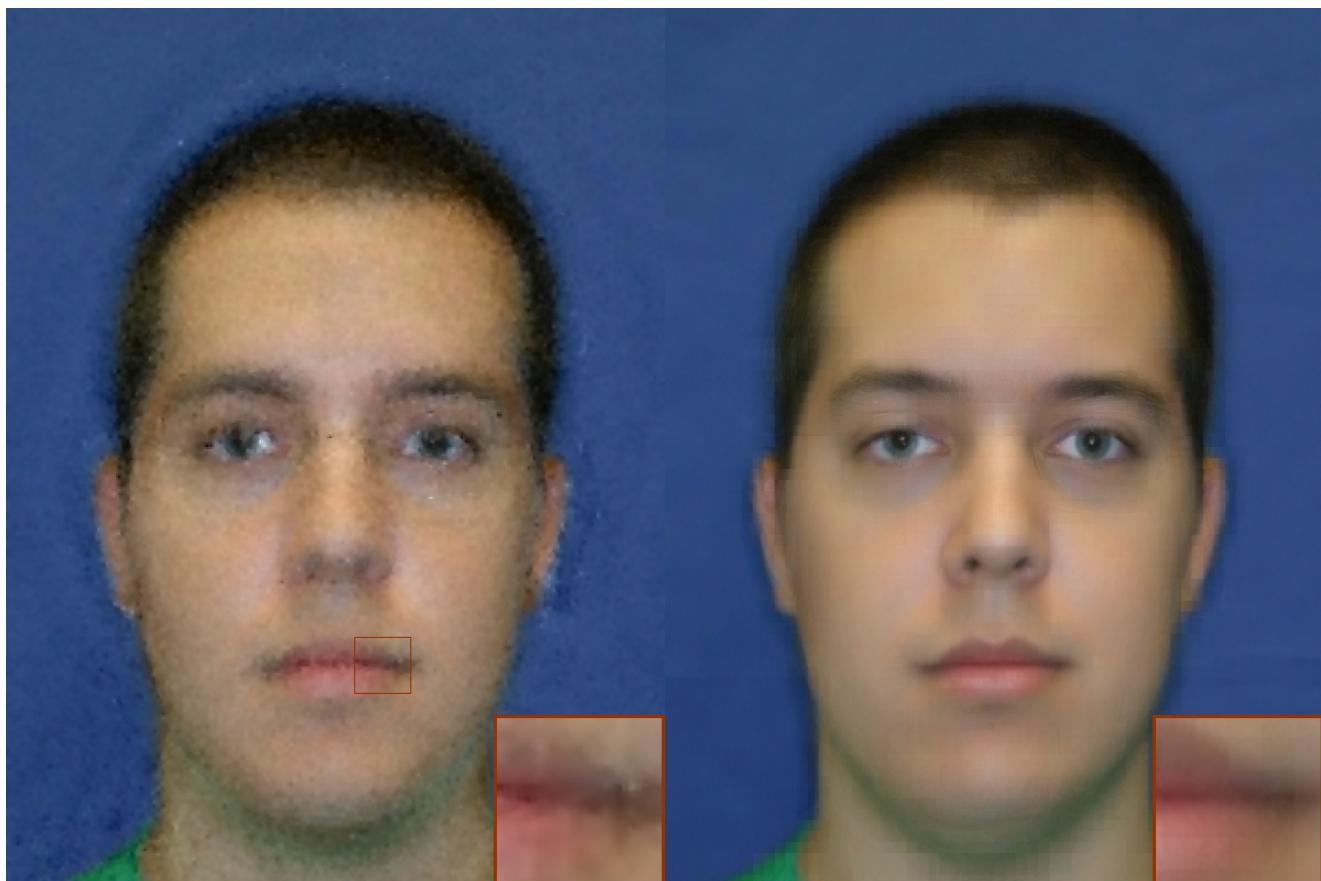


Fig. 4: Visual evaluation for $10 \times$ upsampled face image.



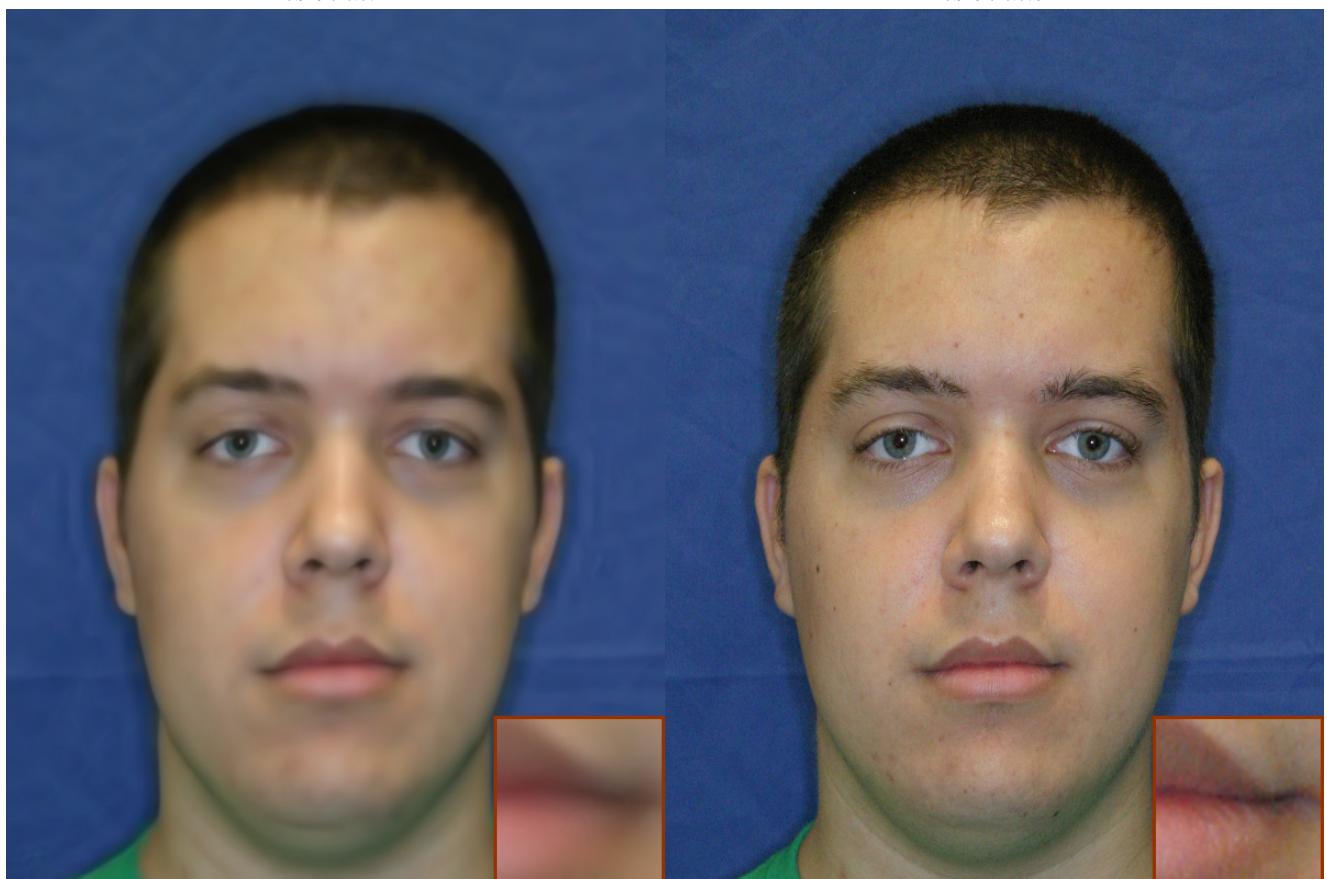
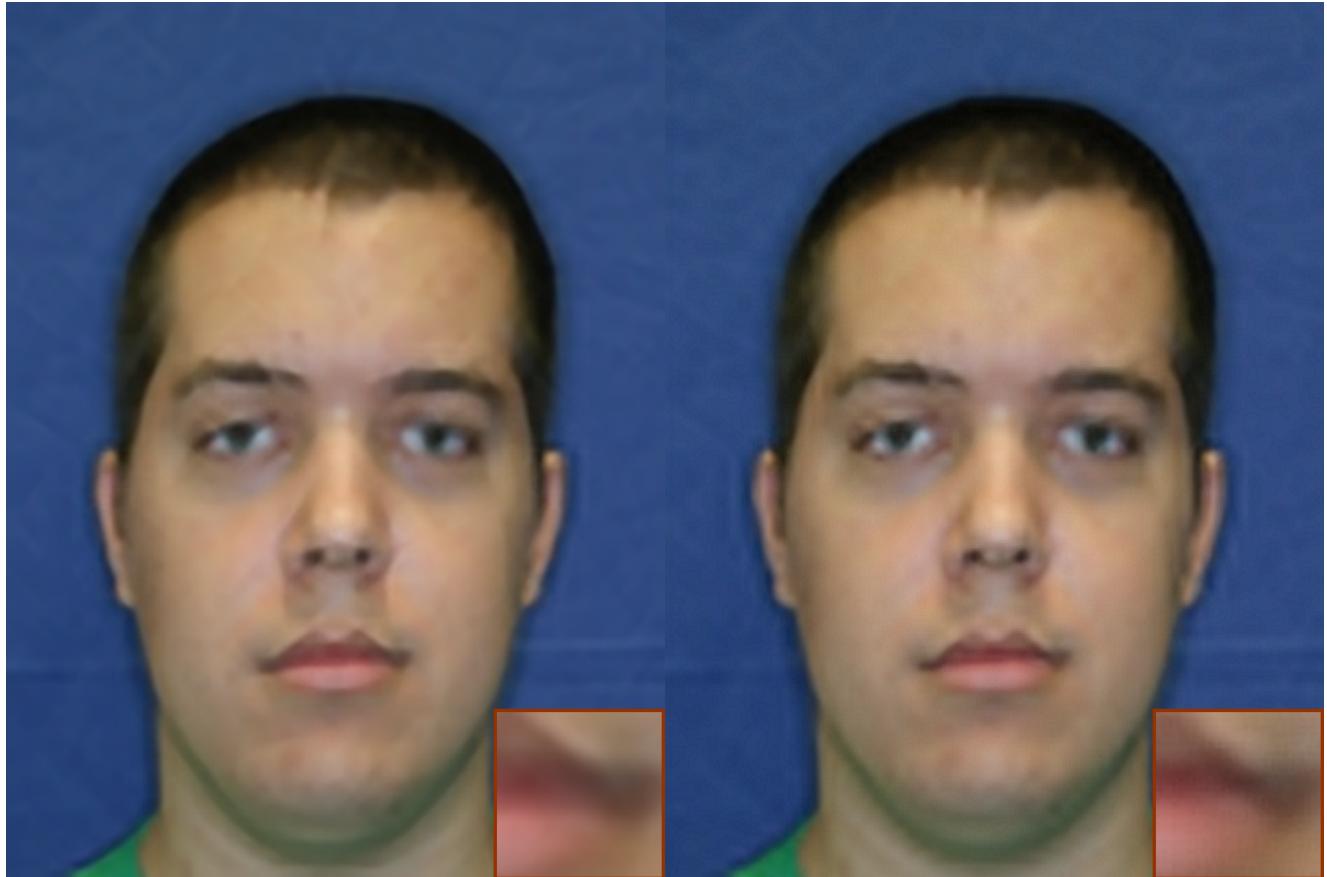


Fig. 5: Visual evaluation for $10 \times$ upsampled face image.