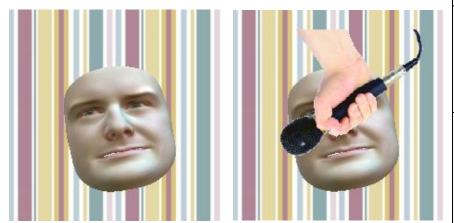
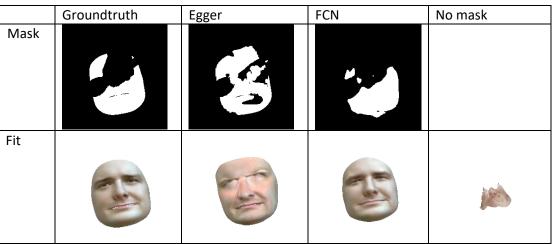
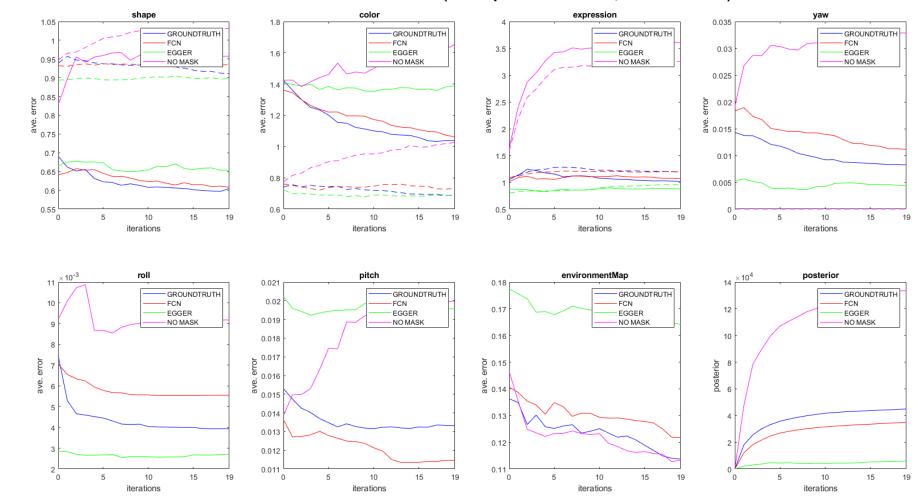
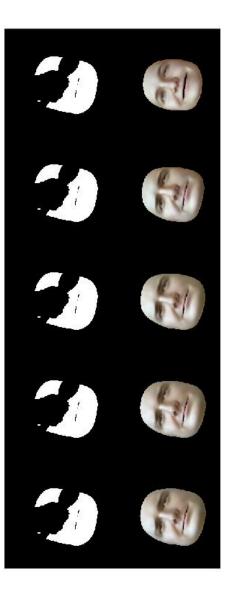
## micros (mask: face12, rendering: face12):



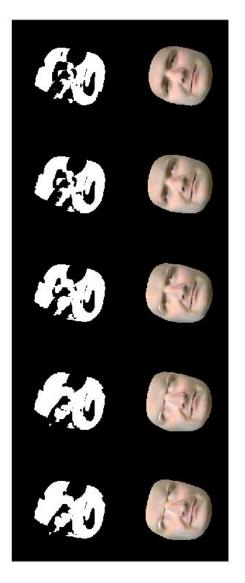


### Evaluation of the "micros"-dataset(first 5 parameters solid, others dashed)

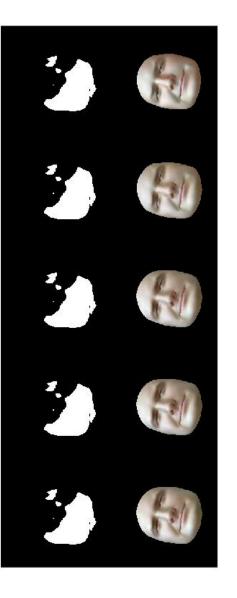




segmentation and mask of test3 in every 5th iteration with mask: EGGER(from right to left)



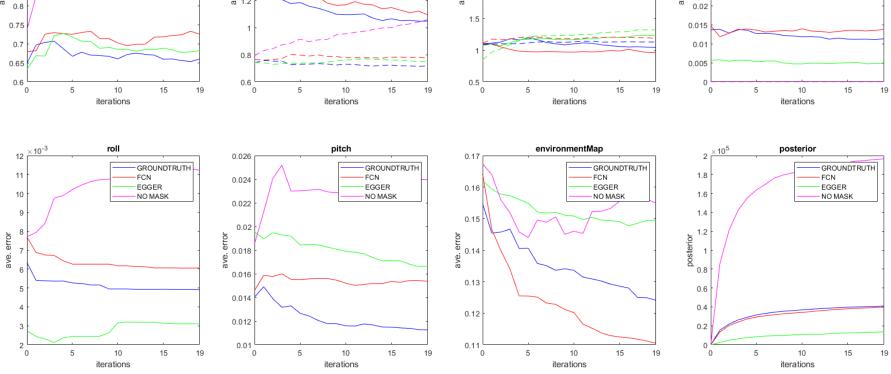
segmentation and mask of test3 in every 5th iteration with mask: FCN (from right to left)

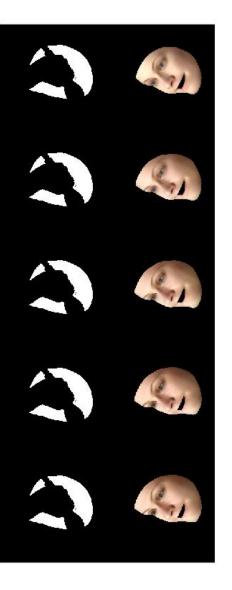


segmentation and mask of test3 in every 5th iteration with mask: NO\_OCCLUSION(from right to left)



#### micros (mask: face12, rendering: bfm): Groundtruth Egger FCN No mask Mask Fit Evaluation of the "micros"-dataset(first 5 parameters solid, others dashed) shape color expression yaw 1.1 GROUNDTRUTH GROUNDTRUTH GROUNDTRUTH GROUNDTRUTH 1.05 0.045 FCN FCN FCN FCN 1.8 EGGER EGGER EGGER EGGER NO MASK NO MASK NO MASK 0.04 NO MASK 1.6 0.035 0.9 ave. error orror 0.85 0.025 0.8 0.02 0.75 0.015 0.7 0.01 0.65 0.005 0.6 0.6 0.5 15 19 10 15 0 10 15 10 15 19 iterations iterations iterations iterations

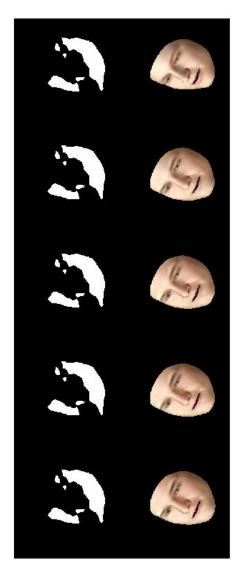




segmentation and mask of test0 in every 5th iteration with mask: EGGER(from right to left)



segmentation and mask of test0 in every 5th iteration with mask: FCN(from right to left)

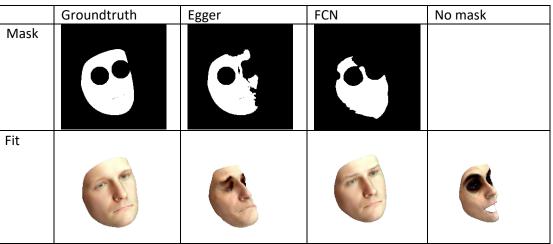


segmentation and mask of test0 in every 5th iteration with mask: NO\_OCCLUSION(from right to left)

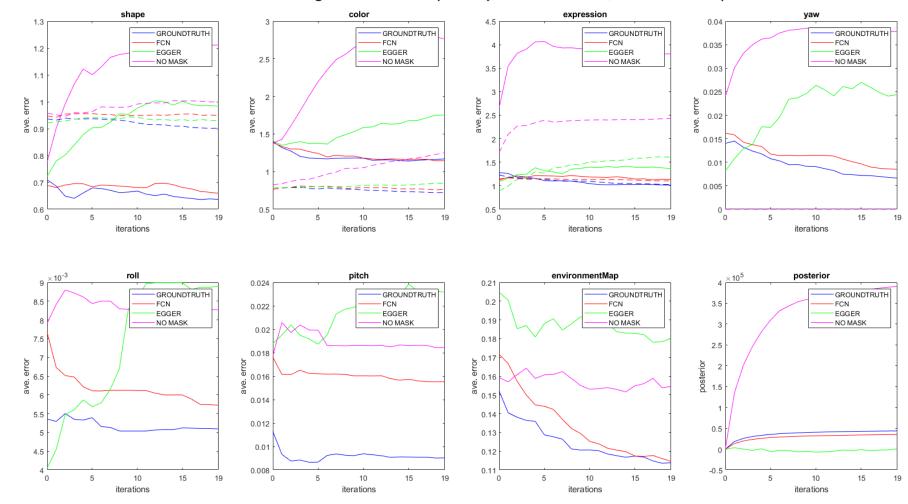


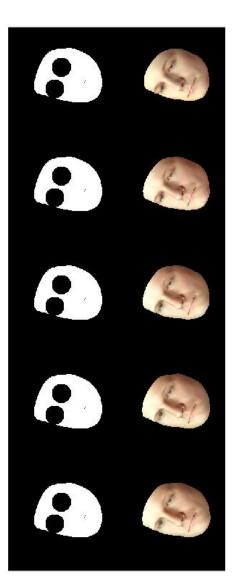
# glasses (mask: face12, rendering: face12):



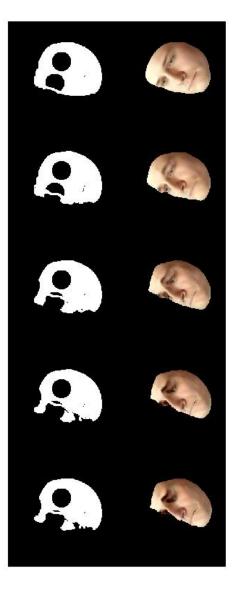


### Evaluation of the "glasses"-dataset(first 5 parameters solid, others dashed)

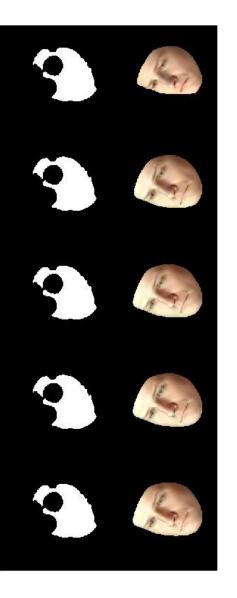




segmentation and mask of test0 in every 5th iteration with mask: EGGER(from right to left)



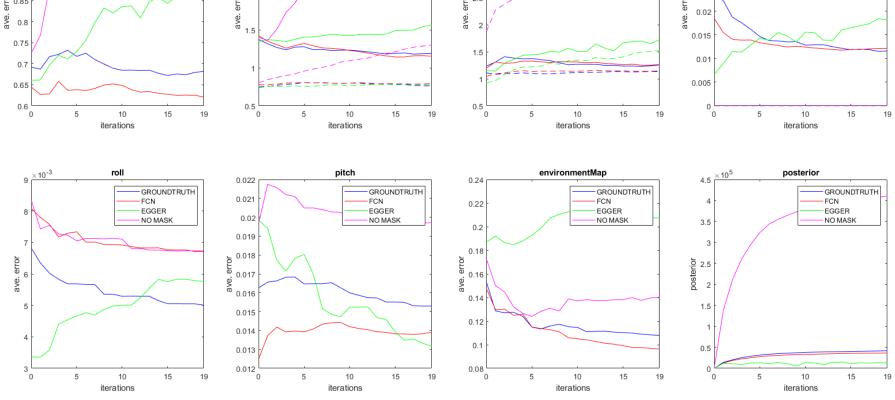
segmentation and mask of test0 in every 5th iteration with mask: FCN(from right to left)

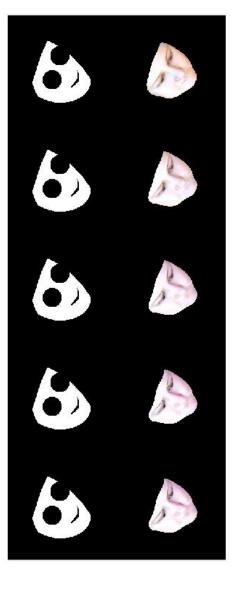


segmentation and mask of test0 in every 5th iteration with mask: NO\_OCCLUSION(from right to left)

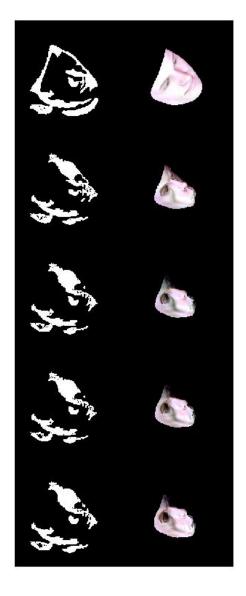


#### glasses (mask: face12, rendering: bfm): Groundtruth Egger FCN No mask Mask Fit Evaluation of the "glasses"-dataset (first 5 parameters solid, others dashed) expression shape yaw 1.05 0.04 GROUNDTRUTH GROUNDTRUTH GROUNDTRUTH GROUNDTRUTH FCN FCN -FCN FCN 0.035 EGGER EGGER EGGER EGGER 2.5 NO MASK NO MASK NO MASK 0.95 0.03 0.9 0.025 ave. error 8.0 ave. error ave. error 0.02 0.015 0.75 0.01 0.7 0.005 0.65

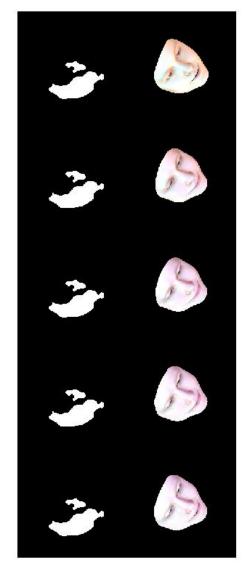




segmentation and mask of test2 in every 5th iteration with mask: EGGER(from right to left)

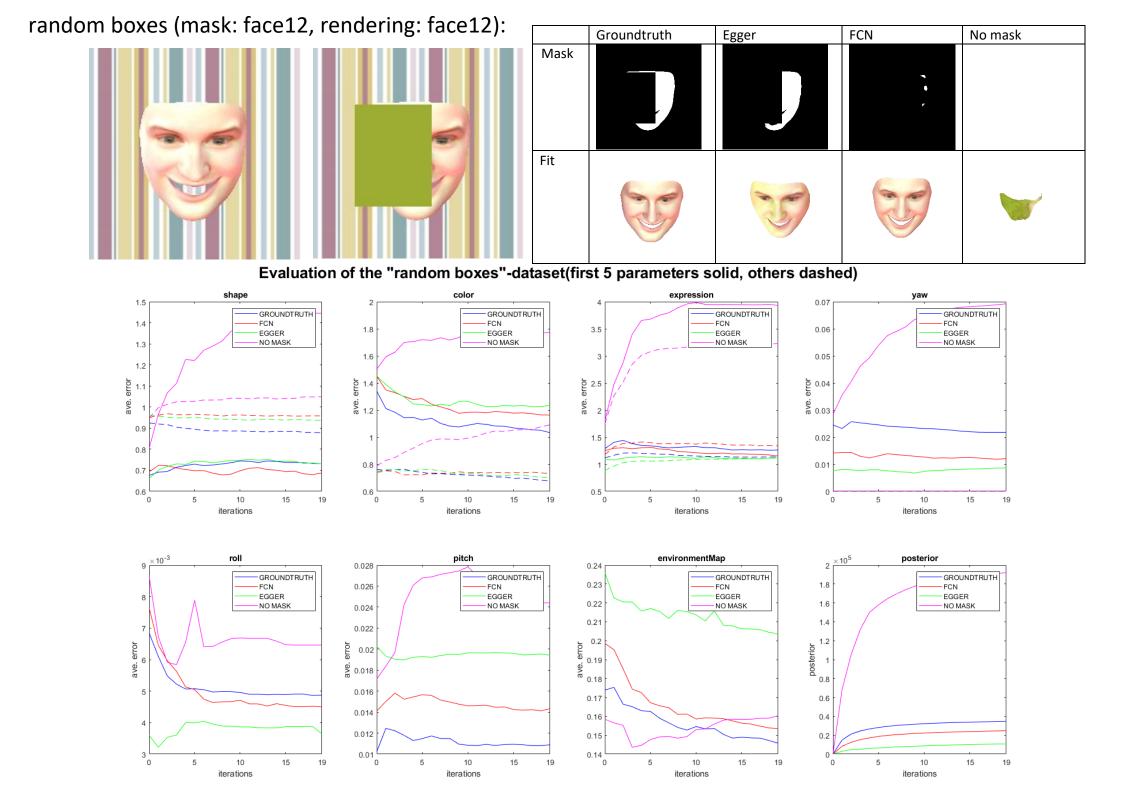


segmentation and mask of test2 in every 5th iteration with mask: FCN(from right to left)



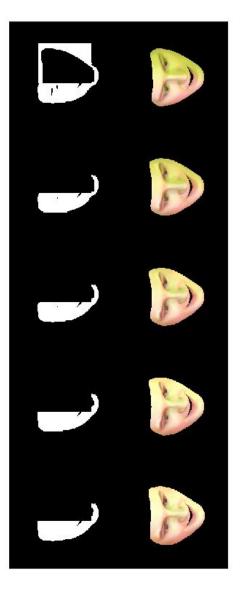
segmentation and mask of test2 in every 5th iteration with mask: NO\_OCCLUSION(from right to left)



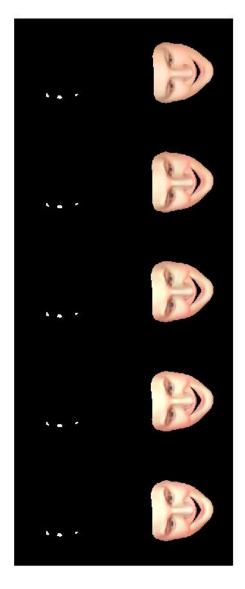




segmentation and mask of test1 in every 5th iteration with mask: EGGER(from right to left)



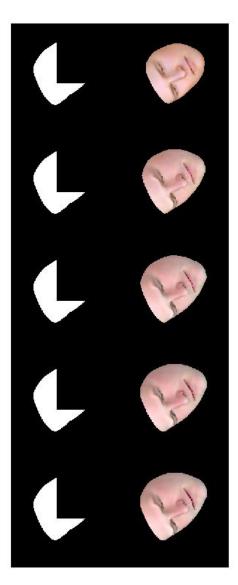
segmentation and mask of test1 in every 5th iteration with mask: FCN(from right to left)



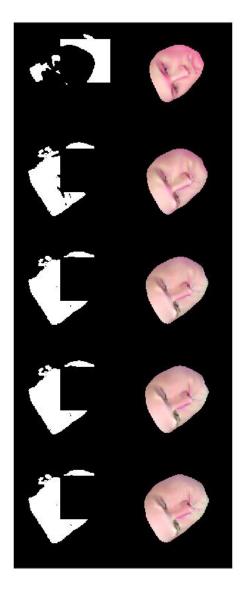
segmentation and mask of test1 in every 5th iteration with mask: NO\_OCCLUSION(from right to left)



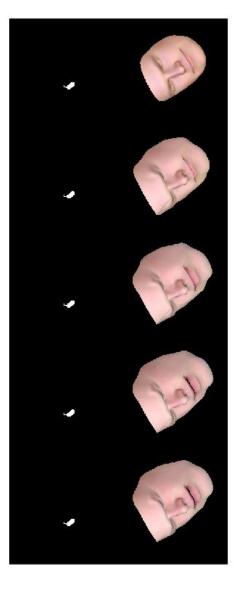
#### random boxes (mask: face12, rendering: bfm): Groundtruth FCN No mask Egger Mask Fit Evaluation of the "random boxes"-dataset(first 5 parameters solid, others dashed) color expression shape yaw GROUNDTRUTH GROUNDTRUTH GROUNDTRUTH GROUNDTRUTH 1.5 1.5 0.06 3.5 EGGER EGGER EGGER EGGER 1.4 NO MASK NO MASK NO MASK 0.05 1.3 1.2 1.2 ave. error 0.04 1.1 6 0.03 0.02 0.8 0.01 0.8 0.7 0.6 10 15 10 15 10 15 19 10 15 19 iterations iterations iterations iterations roll pitch environmentMap posterior 0.018 0.035 0.4 18 GROUNDTRUTH GROUNDTRUTH GROUNDTRUTH GROUNDTRUTH -FCN -FCN -FCN 16 -FCN 0.016 EGGER EGGER EGGER EGGER 0.35 0.03 NO MASK NO MASK NO MASK NO MASK 0.014 0.3 0.025 <sup>1</sup> 0.012 ave. error 0.25 posterior 8 01 0.01 0.008 0.2 0.006 0.015 0.004 15 15 19 10 15 19 5 15 19 iterations iterations iterations iterations



segmentation and mask of test4 in every 5th iteration with mask: EGGER(from right to left)



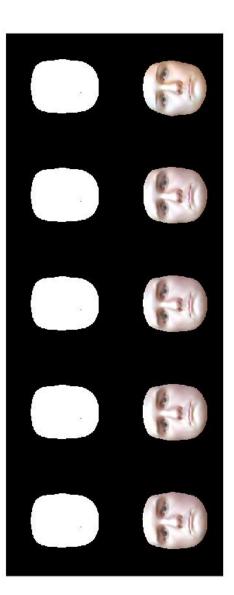
segmentation and mask of test4 in every 5th iteration with mask: FCN(from right to left)



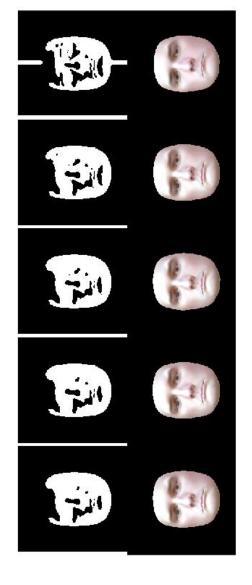
segmentation and mask of test4 in every 5th iteration with mask: NO\_OCCLUSION(from right to left)



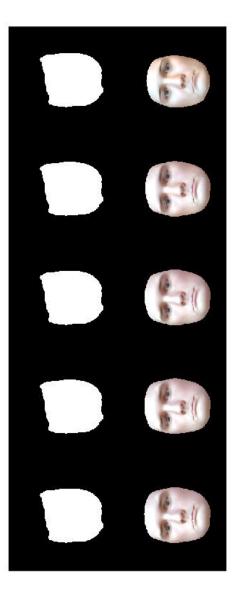
no occlusion (mask: face12, rendering: face12): Groundtruth Egger FCN No mask Mask Fit Evaluation of the "no occlusions"-dataset(first 5 parameters solid, others dashed) expression shape color 0.025 GROUNDTRUTH GROUNDTRUTH GROUNDTRUTH GROUNDTRUTH -FCN FCN FCN FCN 1.3 EGGER EGGER EGGER EGGER NO MASK 0.02 NO MASK NO MASK NO MASK 1.2 0.9 1.2 1.1 0.015 ' 0.85 error ave. error 0.8 0.01 0.8 0.9 0.7 0.7 0.005 0.8 0.65 0.6 0.6 0.5 0.7 10 15 19 10 15 19 10 15 19 10 15 19 iterations iterations iterations iterations 8 × 10-3 roll pitch environmentMap 6 × 10<sup>4</sup> posterior 0.018 0.18 GROUNDTRUTH GROUNDTRUTH GROUNDTRUTH GROUNDTRUTH FCN -FCN FCN FCN 0.17 0.017 EGGER EGGER EGGER EGGER NO MASK NO MASK NO MASK NO MASK 0.16 0.016 0.15 0.015 posterior s 0.14 e 0.014 0.13 0.013 0.12 0.012 0.11 0.1 0.011 15 19 15 19 15 19 19 0 10 10 0 10 10 15 iterations iterations iterations iterations



segmentation and mask of test7 in every 5th iteration with mask: EGGER(from right to left)



segmentation and mask of test7 in every 5th iteration with mask: FCN(from right to left)

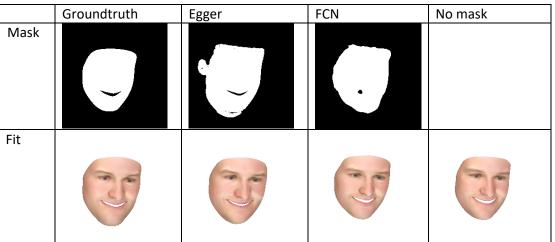


segmentation and mask of test7 in every 5th iteration with mask: NO\_OCCLUSION(from right to left)

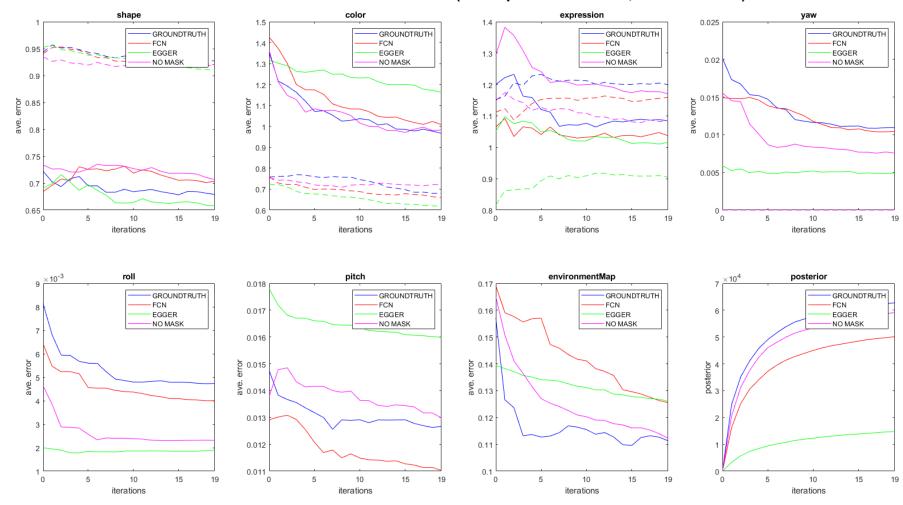


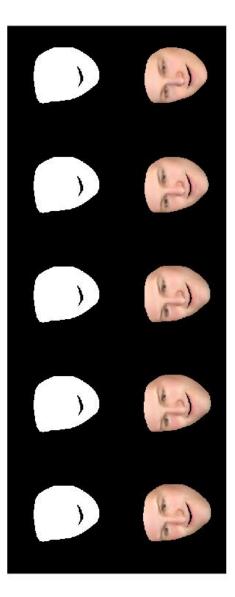
## no occlusion (mask: face12, rendering: bfm):



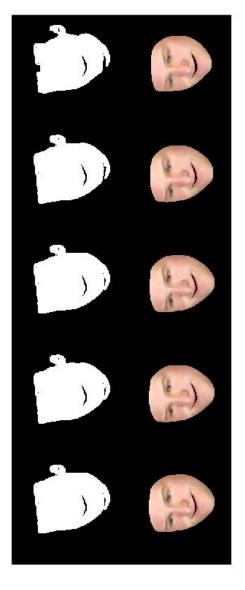


## Evaluation of the "no occlusions"-dataset(first 5 parameters solid, others dashed)

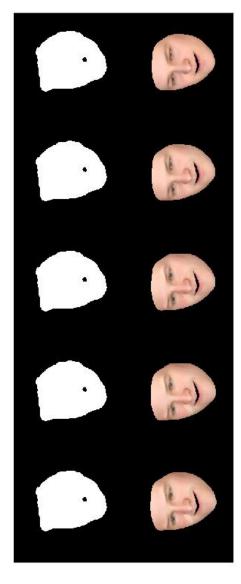




segmentation and mask of test6 in every 5th iteration with mask: EGGER(from right to left)



segmentation and mask of test6 in every 5th iteration with mask: FCN(from right to left)



segmentation and mask of test6 in every 5th iteration with mask: NO\_OCCLUSION(from right to left)

