



**Fig.2 Only the entropy-focus criterion (efc) IQM presents a significance bias between the defaced and non-defaced image (highlighted in yellow). The bias is visualized by the dashed grey line and is computed as the mean of the differences. A bias is considered significant when the 95% confidence interval does not contain the zero-difference line. The 95% confidence interval is indicated by the dashed red line and is computed as  $\text{bias} \pm 1.96 \times \text{SD}$ . The zero-difference line represents the ideal condition where the IQM value would be identical between the image with and without face. Additionally, the fact that qi\_1, summary\_p05, summary\_bd\_mad, summary\_bg\_median are problematically almost always 0 is also visible on this plot. This led us to exclude those IQMs from our analysis.**