

**Table 1: Ablation Study Results - Quantitative Comparison**  
(\*\*\* indicates  $p < 0.001$ )

| Metric             | Baseline      | SA-CycleGAN   | $\Delta$ | p-value   | Cohen's d |
|--------------------|---------------|---------------|----------|-----------|-----------|
| Cycle SSIM (A→B→A) | 0.9325±0.0143 | 0.9261±0.0148 | -0.0064  | <0.001*** | -1.96     |
| Cycle SSIM (B→A→B) | 0.9282±0.0171 | 0.9392±0.0123 | +0.0110  | <0.001*** | 1.13      |
| Cycle PSNR (A→B→A) | 28.35±1.37    | 27.90±1.38    | -0.45    | <0.001*** | -1.44     |
| Cycle PSNR (B→A→B) | 27.72±1.30    | 28.73±1.15    | +1.01    | <0.001*** | 1.32      |