

15463 Assignment 5

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1 Photometric stereo

1.1 Uncalibrated photometric stereo

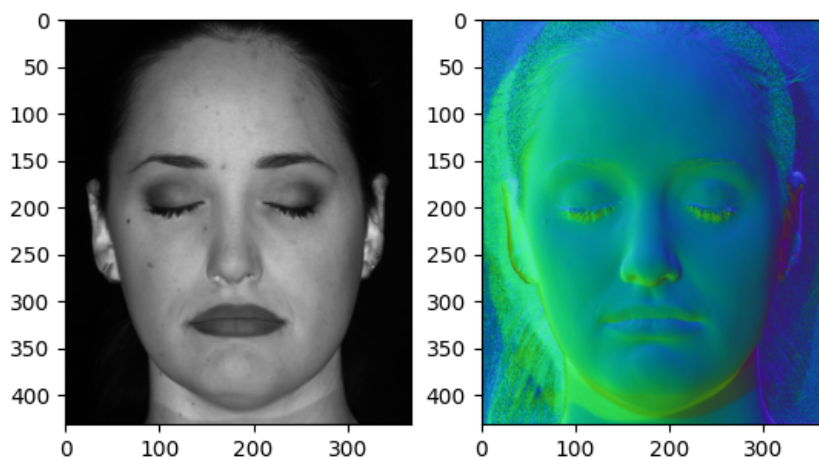


Figure 1: \mathbf{A}_e and \mathbf{N}_e

where $\mathbf{Q} = \begin{bmatrix} 1 & 0.5 & 0.5 \\ 0.25 & 1 & 0.25 \\ 0.5 & 0.5 & 1 \end{bmatrix}$

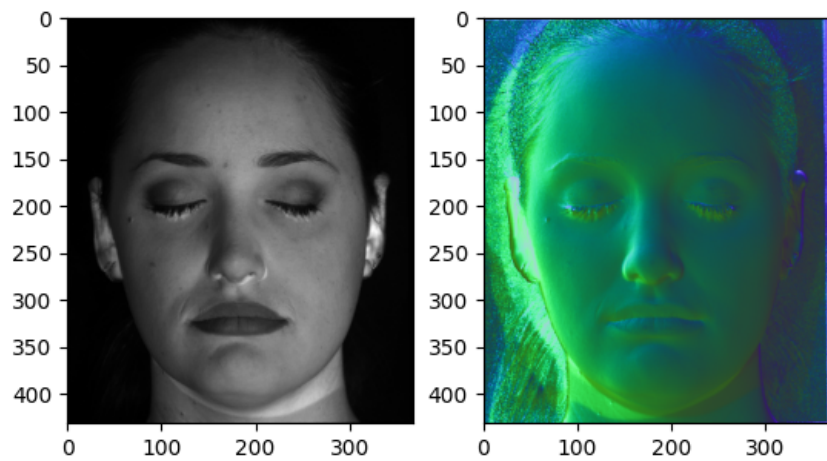


Figure 2: A_Q and N_Q

1.2 Enforcing integrability

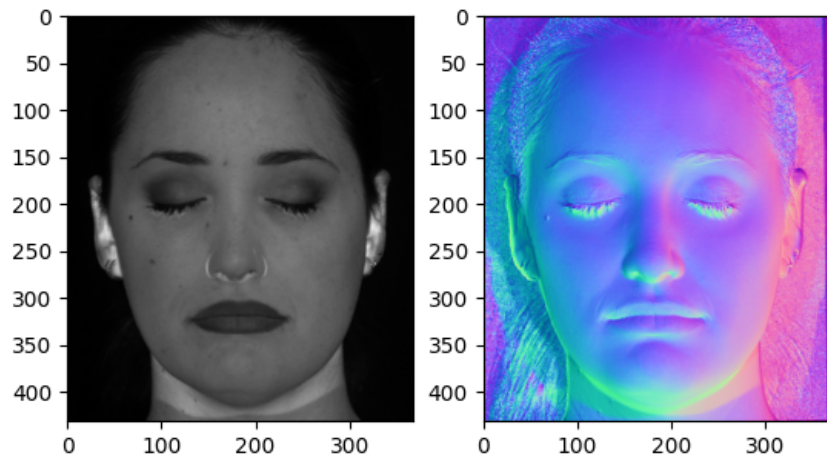


Figure 3: A_Q and N_Q

1.3 Normal integration

1.4 calibrated photometric stereo

2 Capture and reconstruct your own shapes