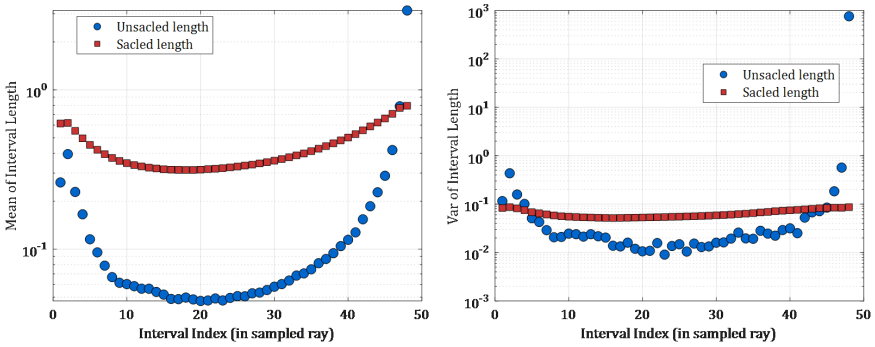


Figure 1: We visualize a batch of the sampled intervals in rendering process of nerfacc+ours method to evaluate the effect of adaptive interval scaling (on *bicycle* scene of Mip360 dataset). The X axis shows the index of sampled interval in corresponding ray and the Y axis shows the interval length. Our method preserves the trend of interval length variations while stabilizing its variance and mean, resulting in stable interpolation when predicting integrals, especially at the near and far points of the rays.

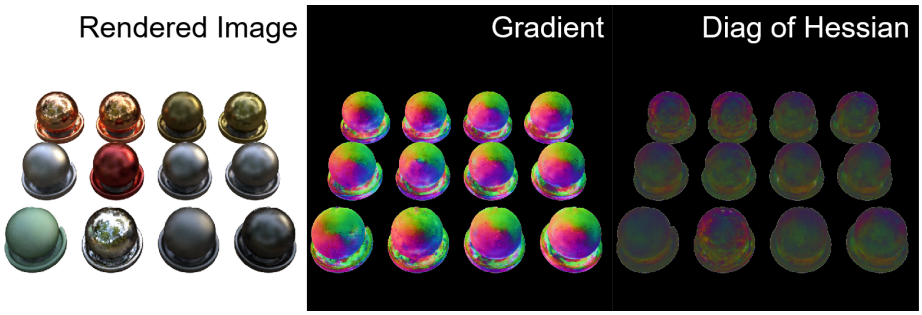


Figure 2: We present the rendered RGB, visualized $\nabla\sigma$ and diag component of $\mathbf{H}_\sigma$ images (on *materials* scene of Blender dataset). Our approach models smooth geometric variations while dealing with complex reflections on textures with various roughness.