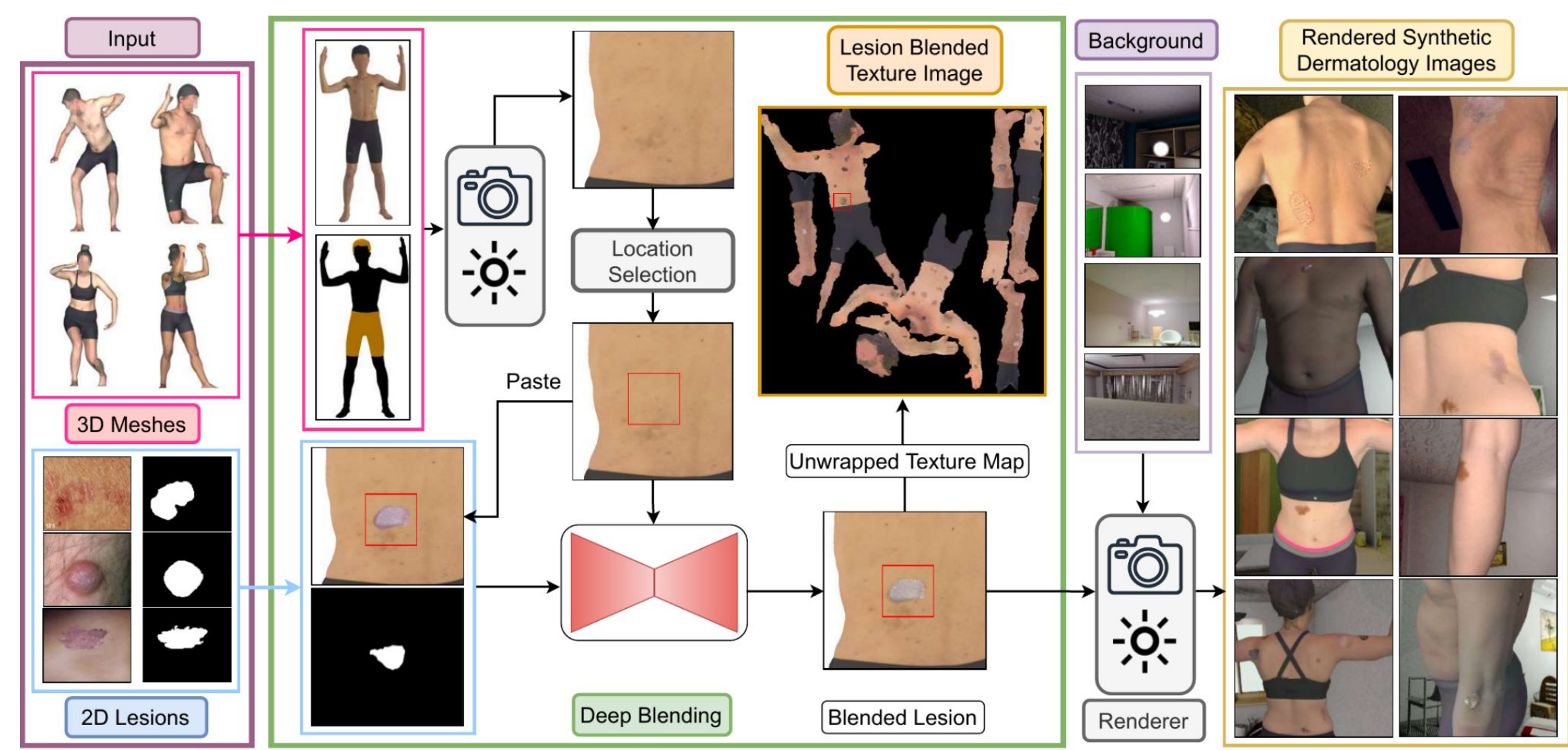


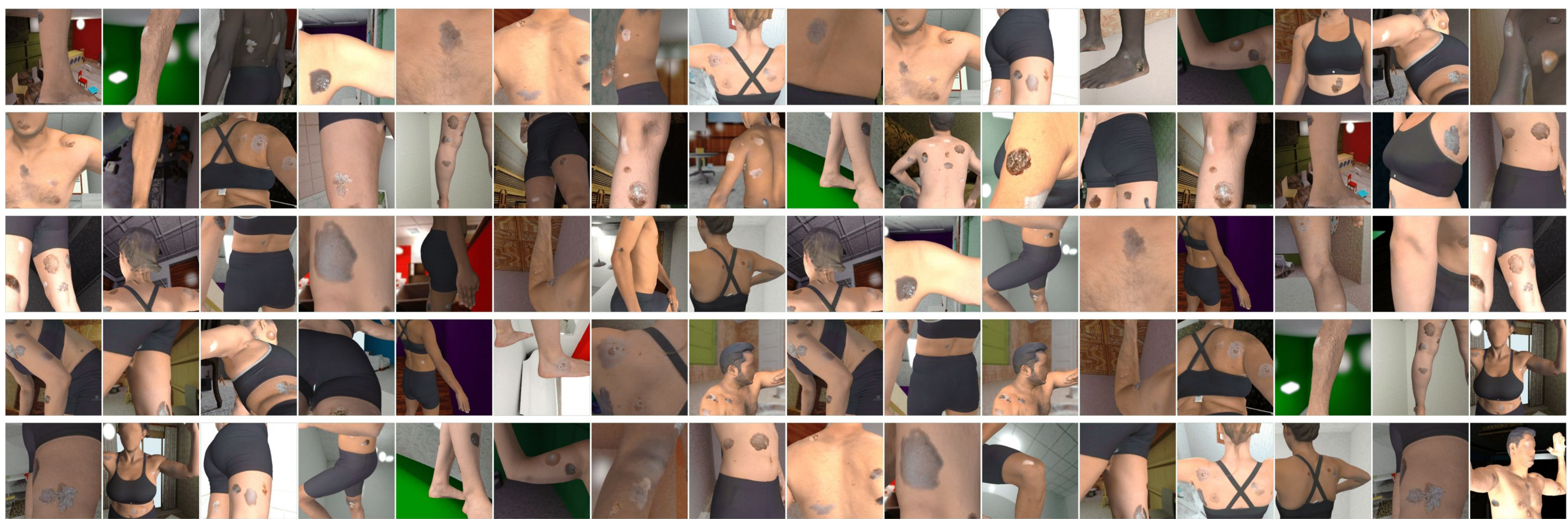
Highlights

- **Synthesis** of skin lesion images by rendering 2D views of a 3D scene.
- Skin lesion **blending** on 3D human textured meshes at **optimized body locations**.
- Controlled lighting, choice of background, and optimal camera viewpoint.
- 2D images with **dense annotations** for skin, lesion and body-part segmentation.
- **Open-source** modular code and datasets for **academic research**.

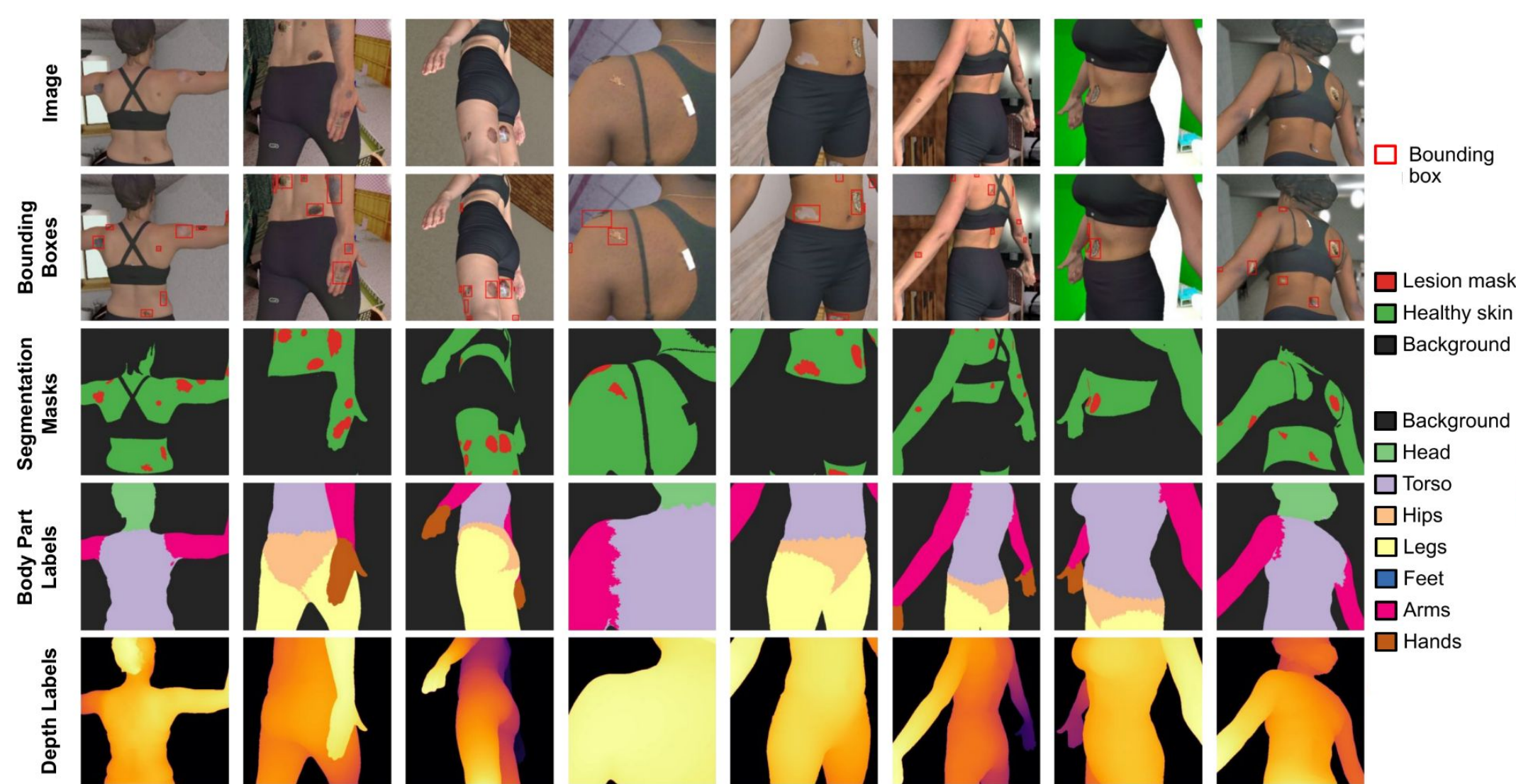
DermSynth3D: Overview



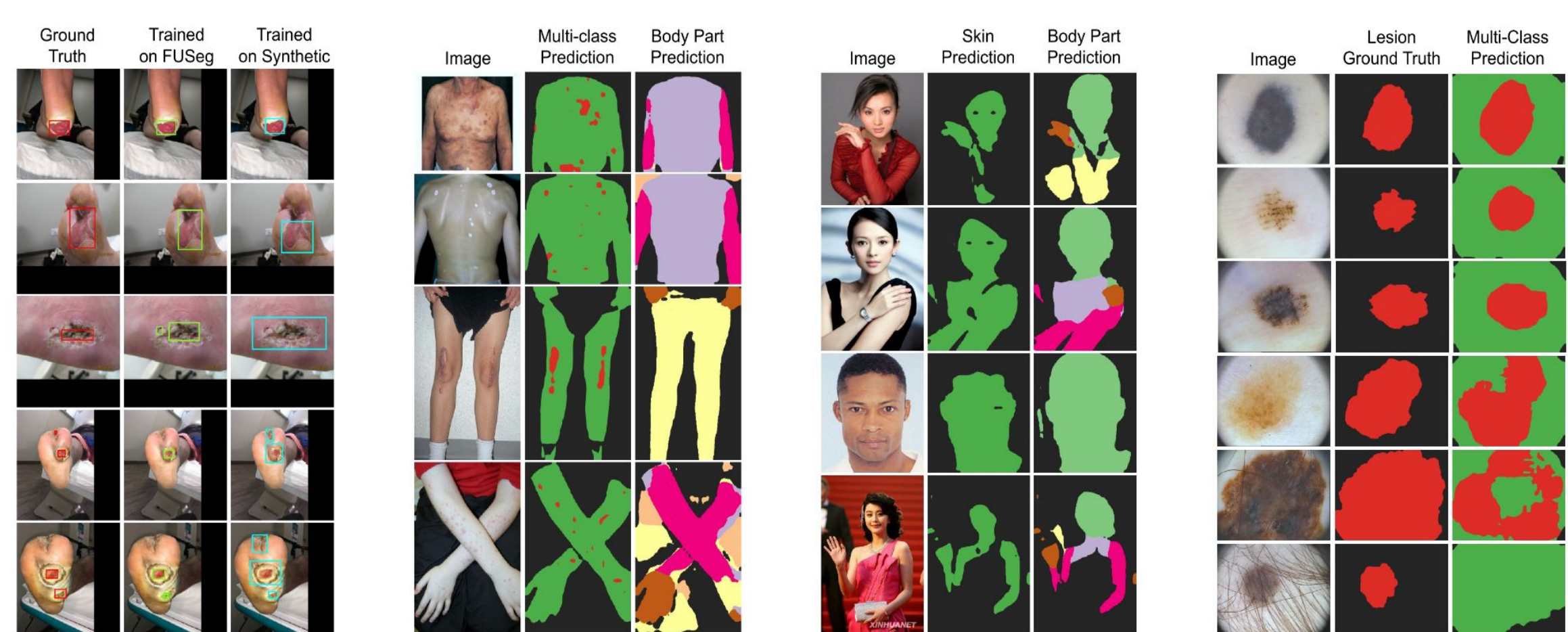
Sample Synthetic Images



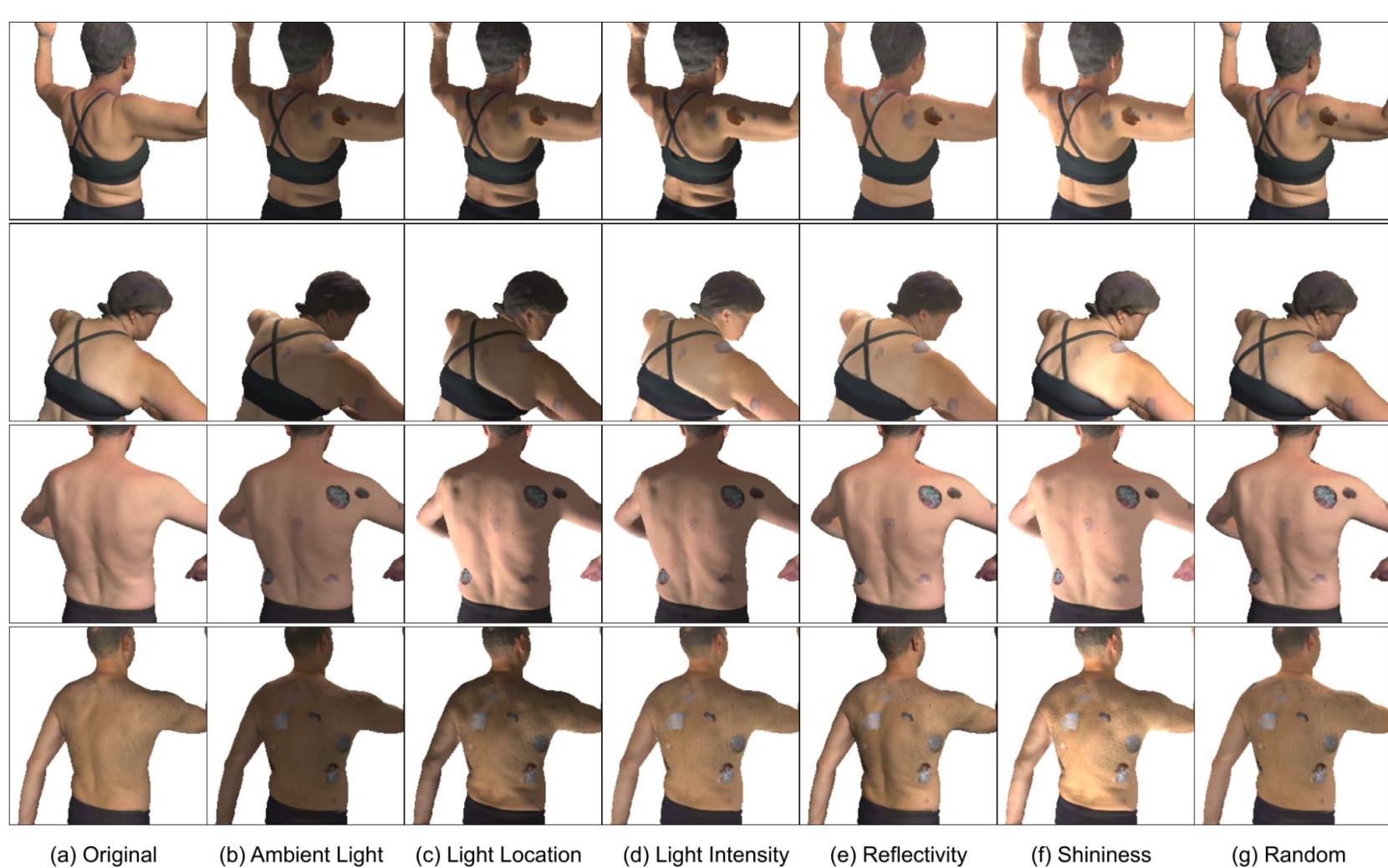
Dense Annotations



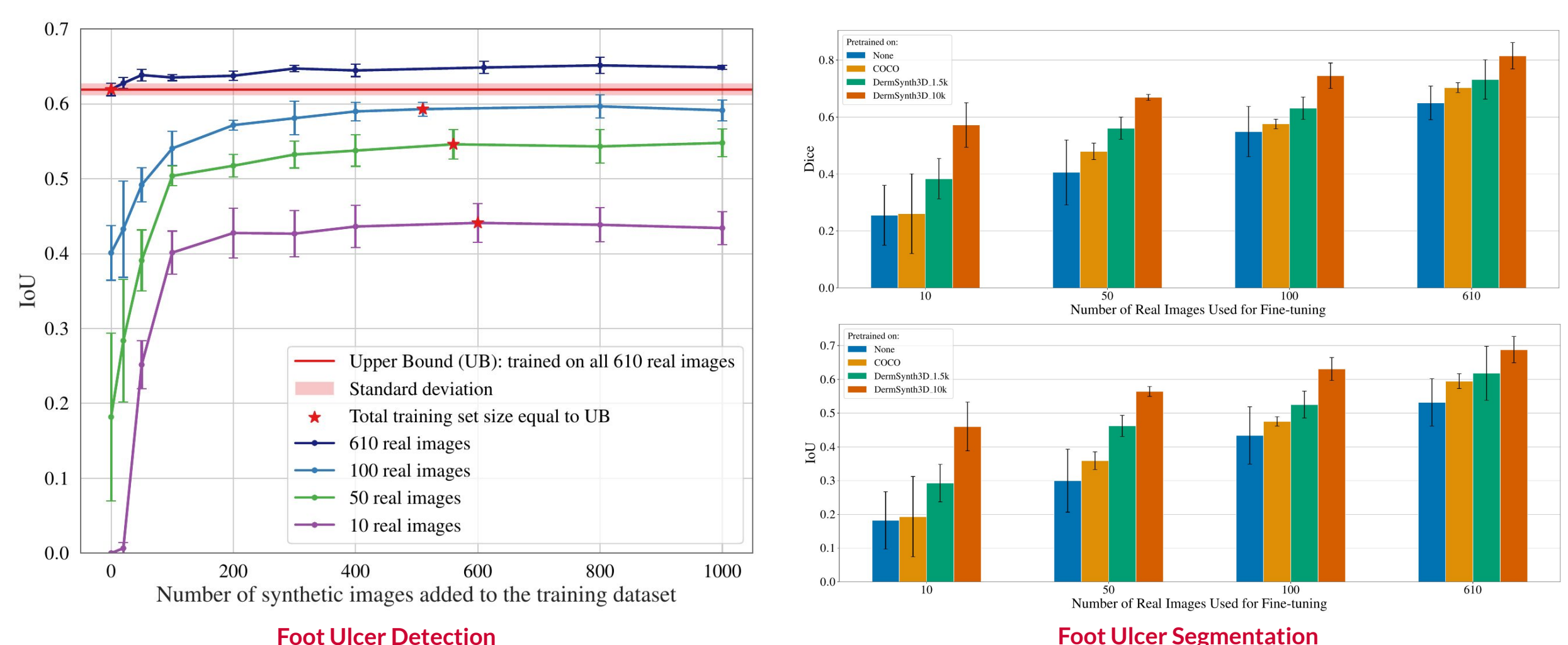
Qualitative Results: Downstream Tasks



Lighting Variation



Quantitative Results



Acknowledgements

