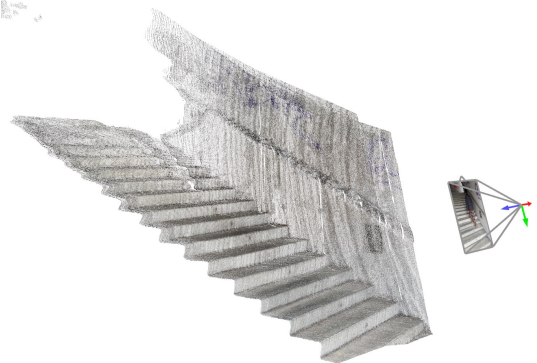**Input Video**

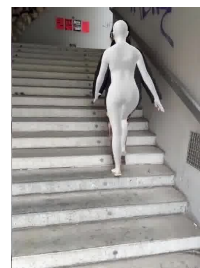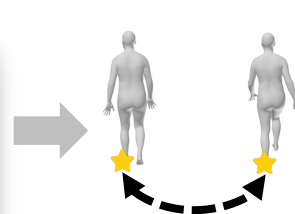**Local Scene Reconstruction**

Human Mesh Recovery

Joint Optimization

Scene Reconstruction Loss

Contact Scale Loss

Contact Static Loss

SMPL Prior Loss

4D Human-Scene Reconstruction