Learning to See and Generate People

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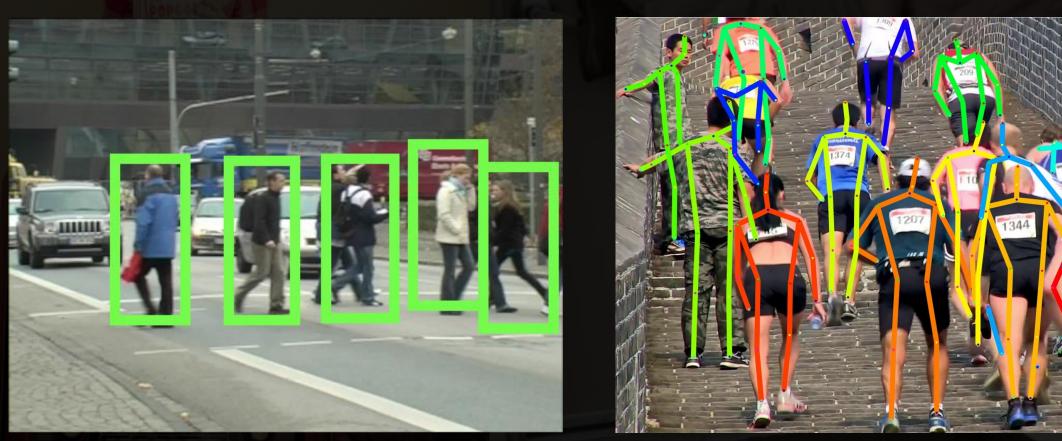




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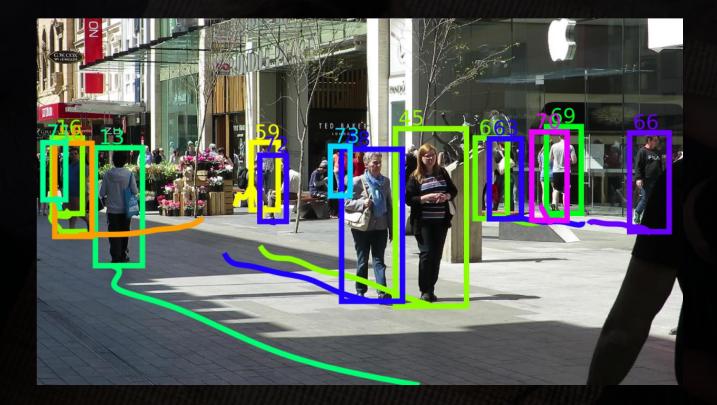
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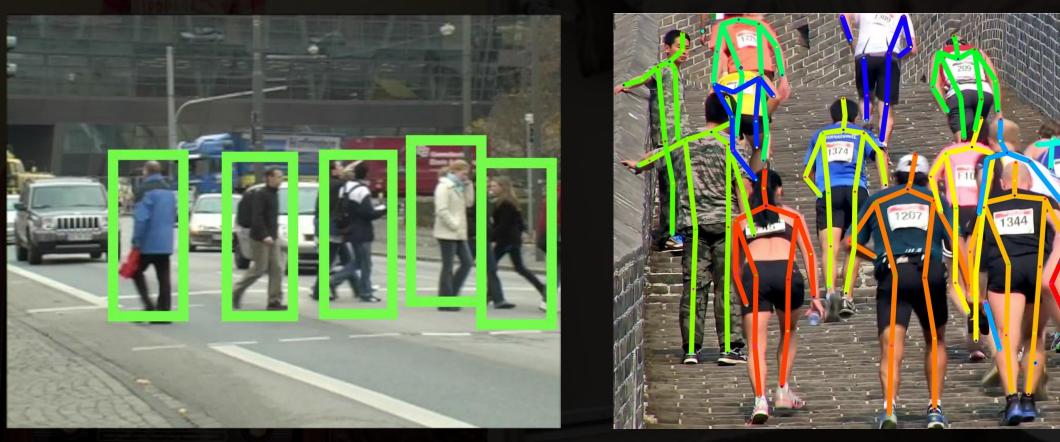


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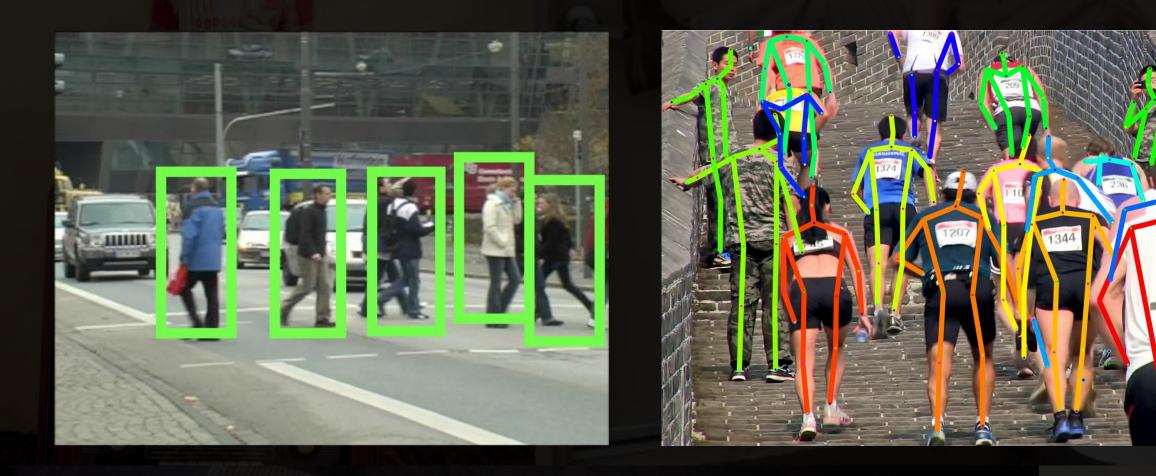


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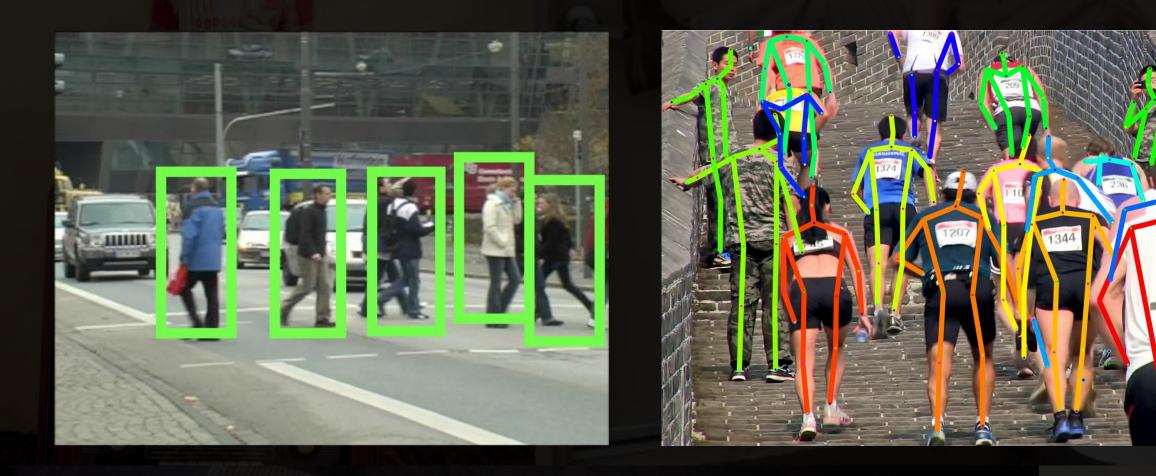
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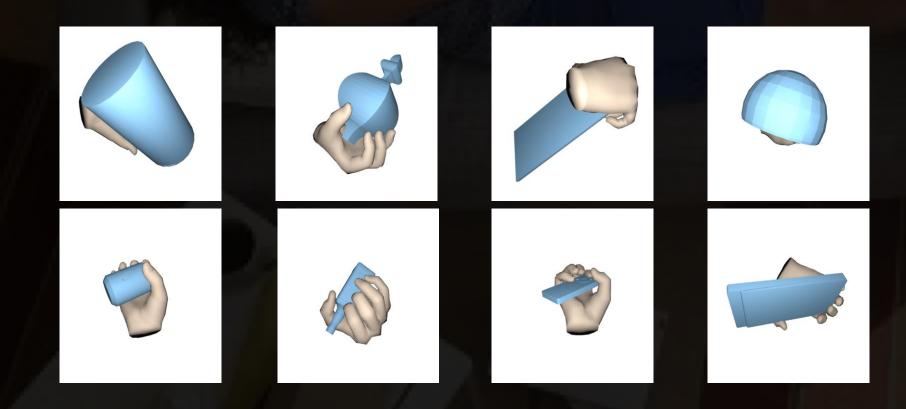




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A Digital Replica of Indoor Spaces [1, 2]



Replica [1]

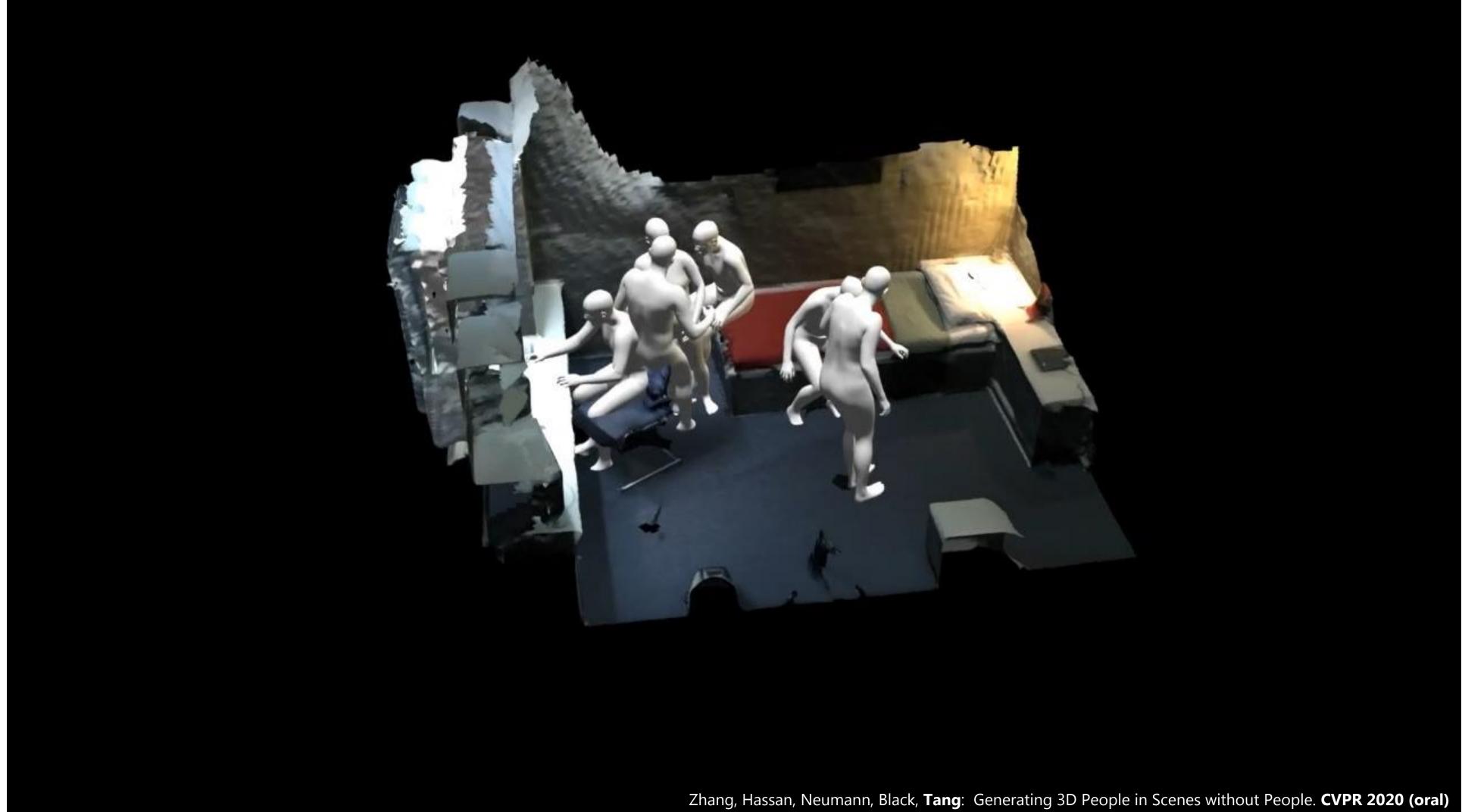
[1] Straub et al. The Replica dataset: A digital replica of indoor spaces. arXiv 2019
[2] Chang, Dai, Funkhouser, Halber, Nießner, Savva, Song, Zeng, Zhang: Matterport3D: Learning from RGB-D Data in Indoor Environments. 3DV 2017



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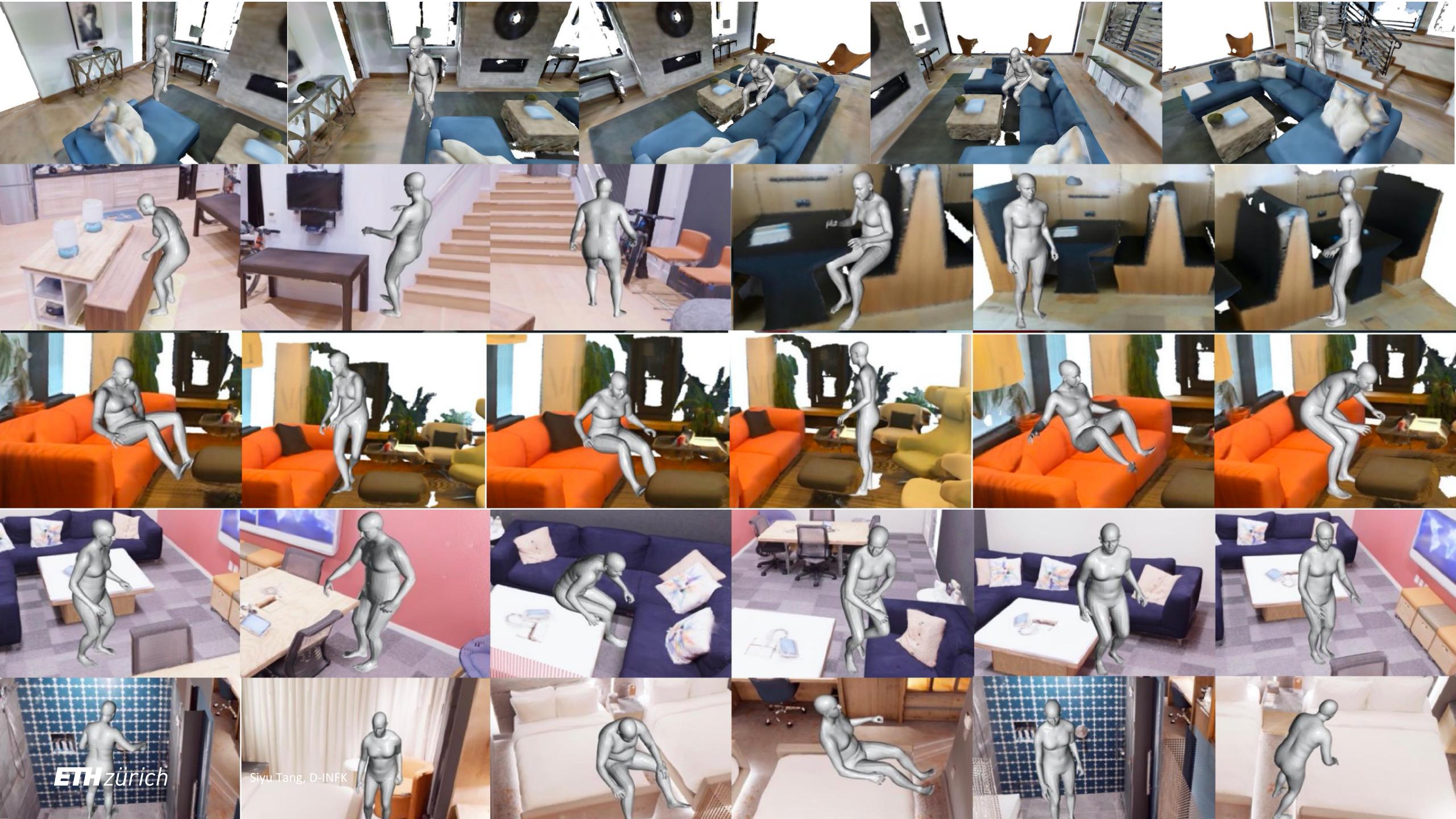
Matterport3D [2]

Populating the Digital World with People





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- **Dressing People in 3D**
- Human motion generation
- Person-person social interaction capture and synthesis
- **Controllable neural avatars**





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Next?

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