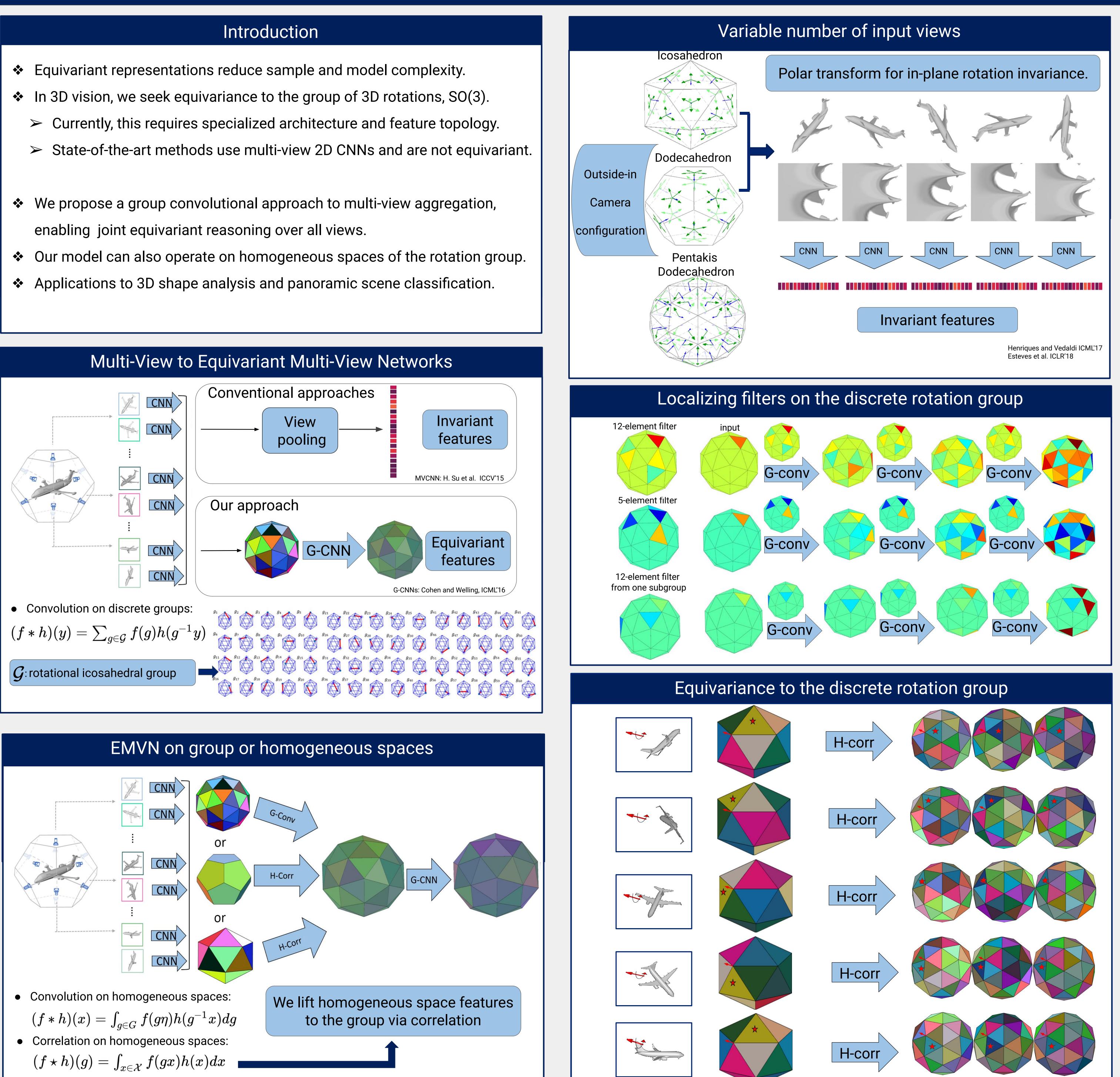
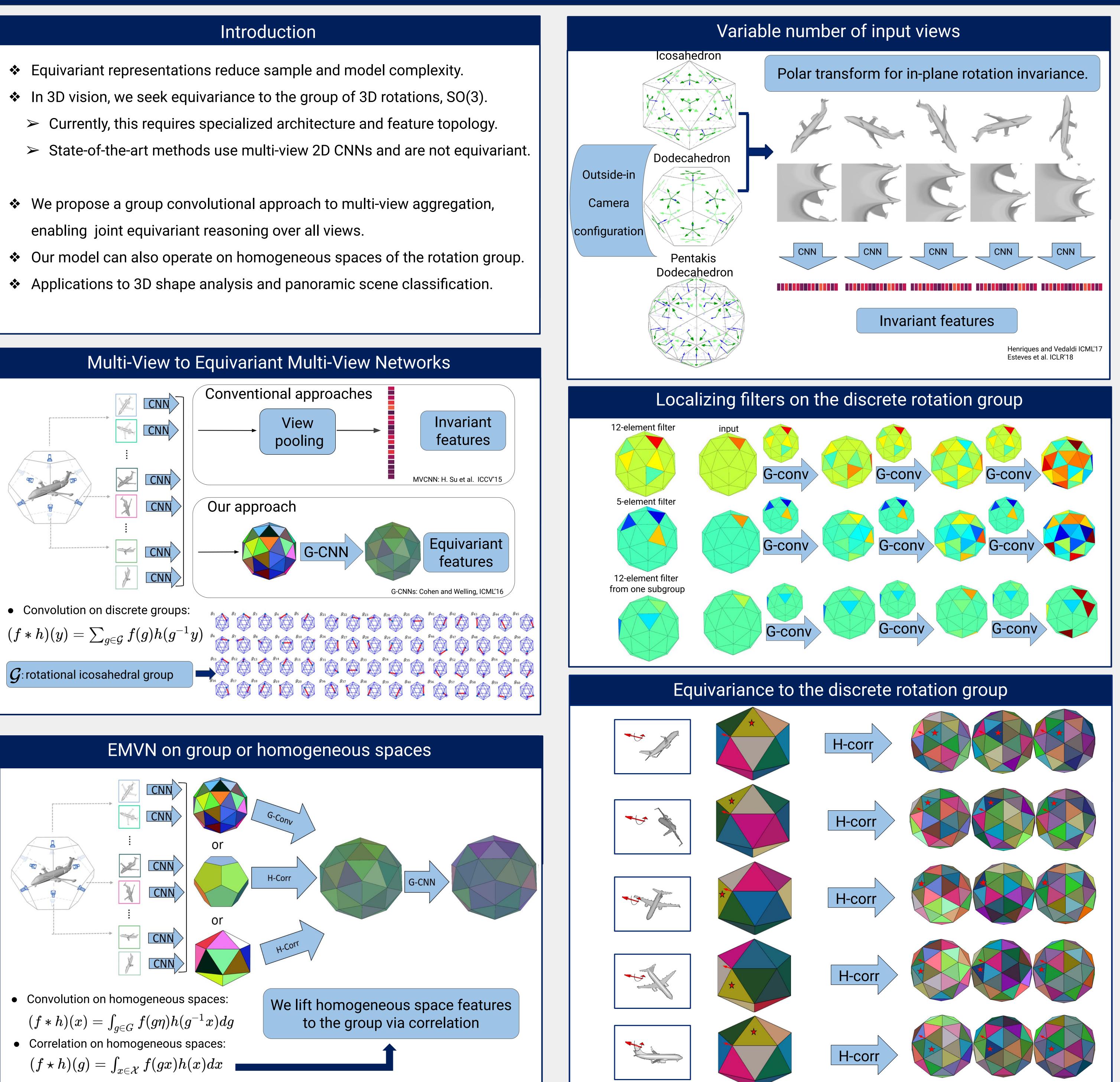


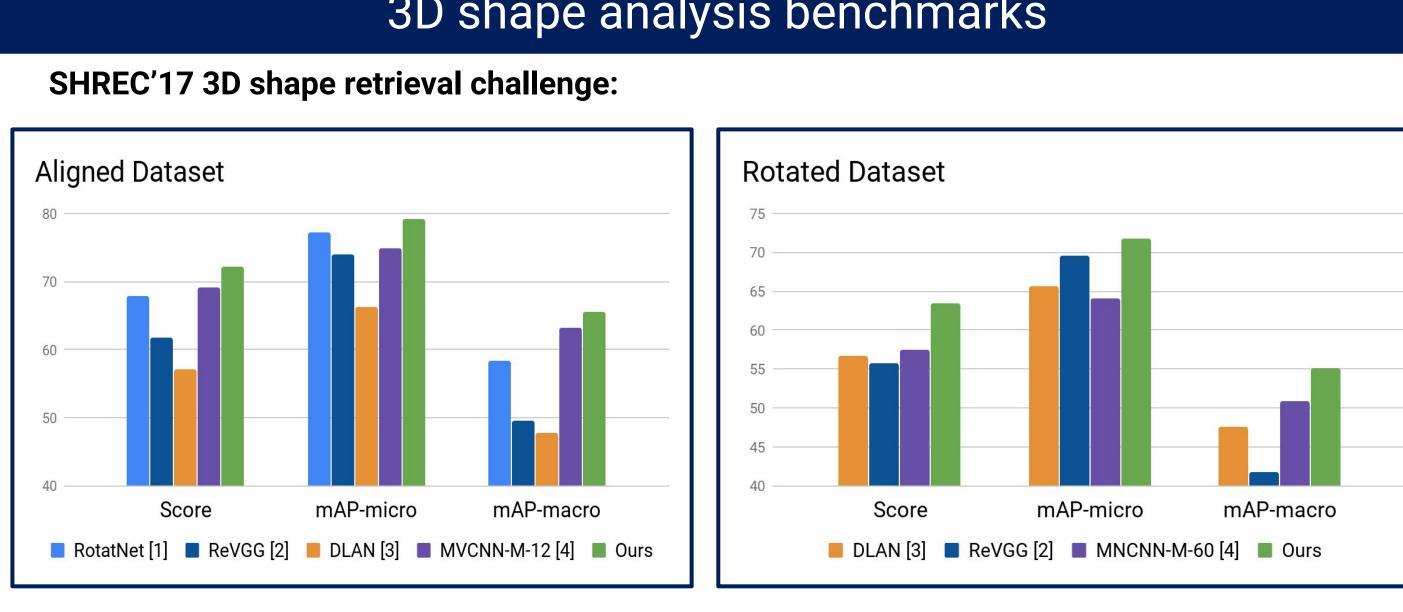
- enabling joint equivariant reasoning over all views.



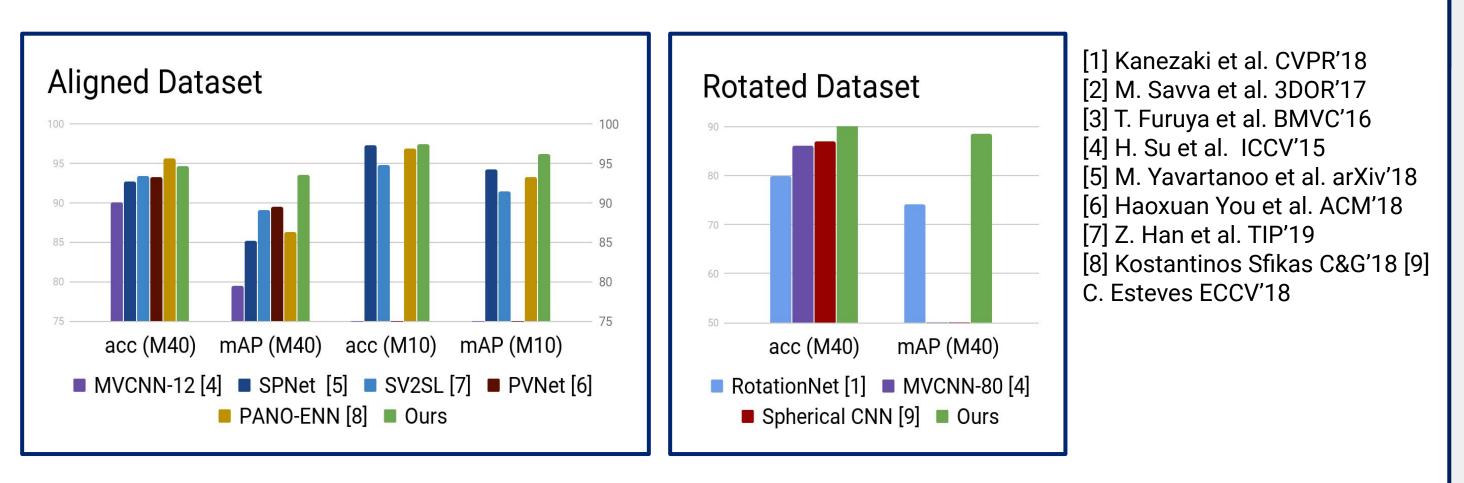


## Equivariant Multi-View Networks Carlos Esteves\* Christine Allen-Blanchette Yinshuang Xu\*

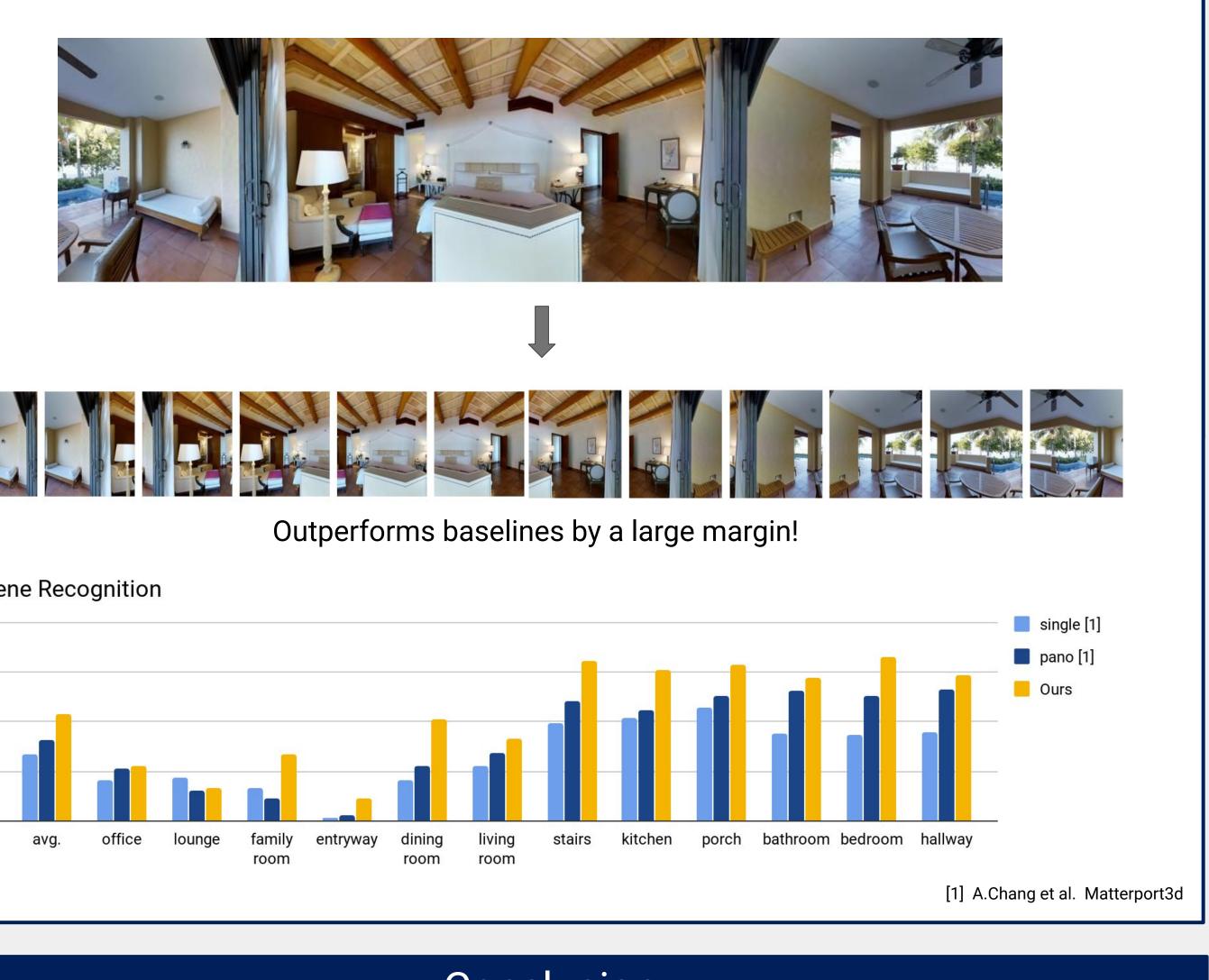
{machc,xuyin,allec,kostas}@seas.upenn.edu GRASP Laboratory, University of Pennsylvania

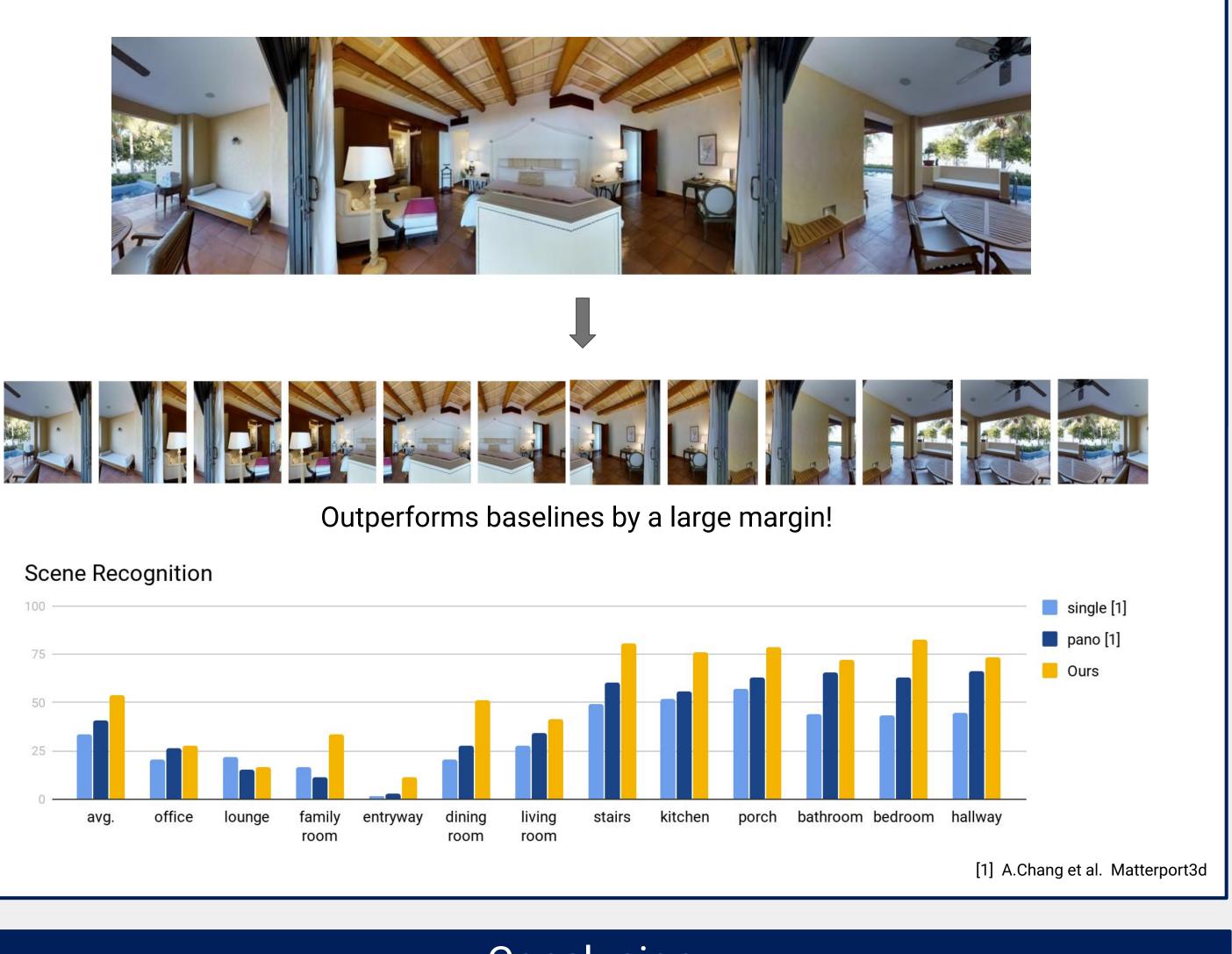


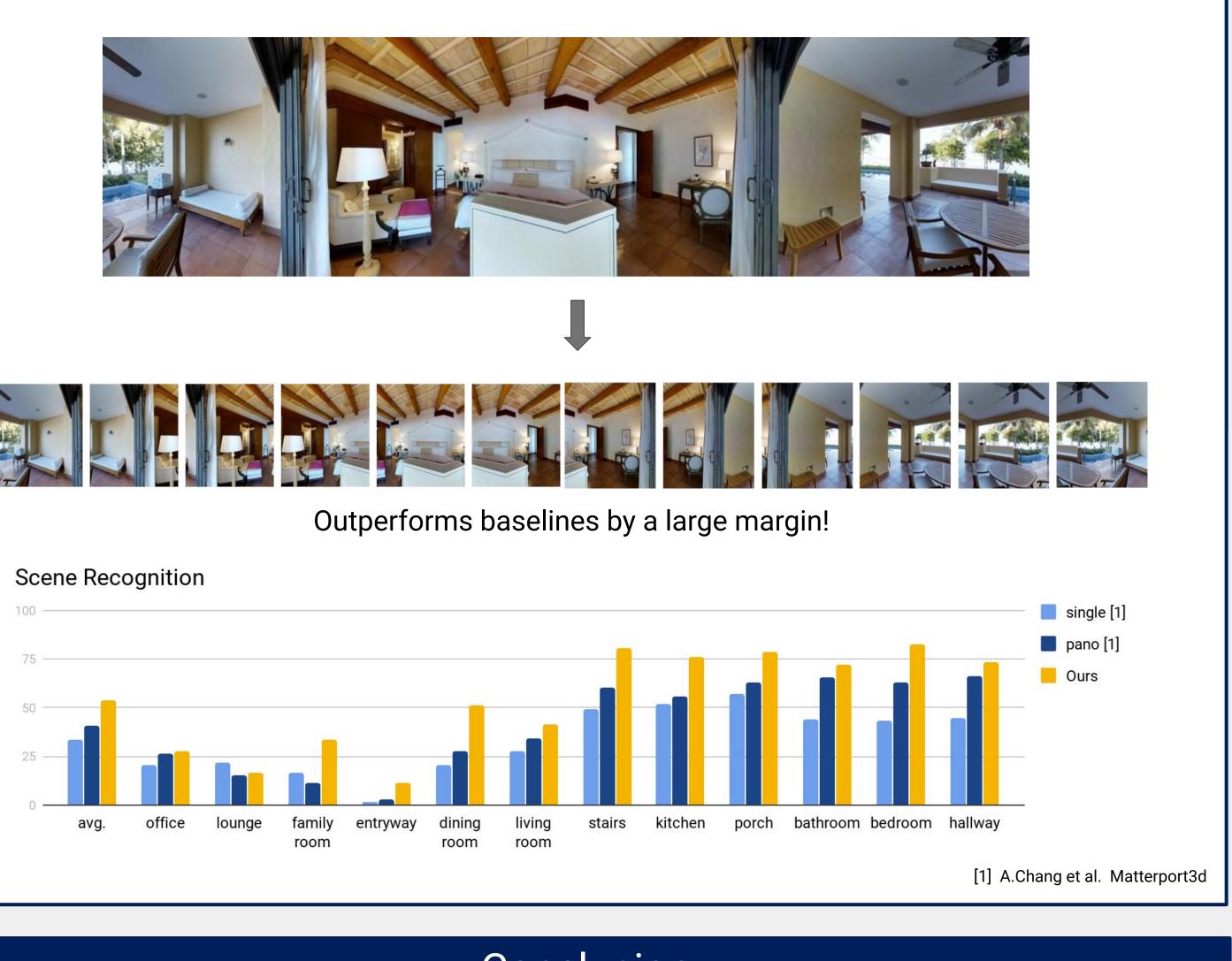
#### Modelnet classification and and retrieval:



### Panoramic scene recognition (Matterport3D)







- We surpass the state of the art on several 3D shape analysis benchmarks.
- Our code is available at https://github.com/daniilidis-group/emvn

# Kostas Daniilidis



#### 3D shape analysis benchmarks

### Conclusion

We combine the power of conventional CNNs with the robustness of equivariant CNNs, enabling joint equivariant reasoning over multiple views.