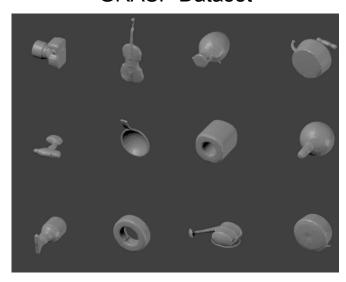


YCB Object Dataset



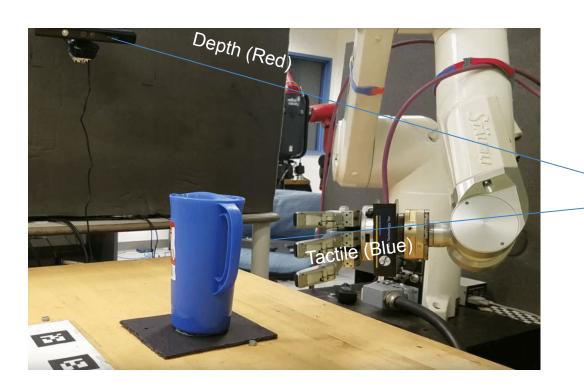
28 unique 3D models

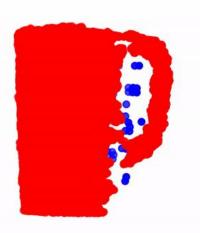
GRASP Dataset

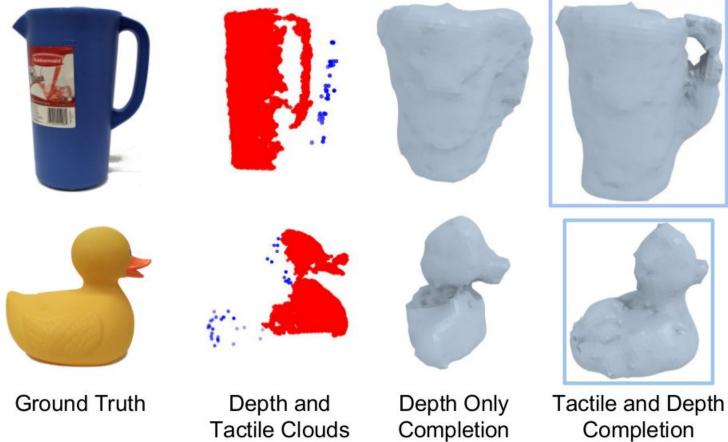


590 unique 3D models

618 objects 726 views per object 448,668 depth images

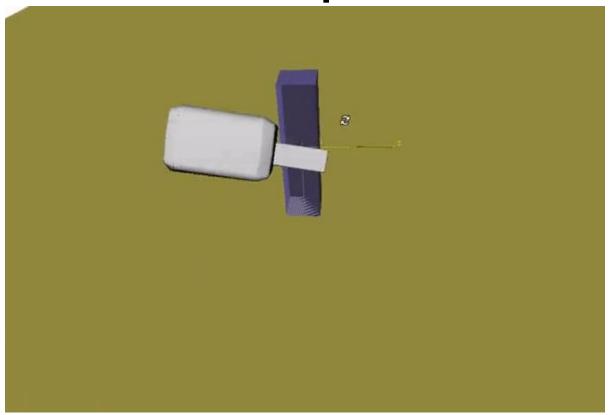






Completion (ours)

Grasp-It!





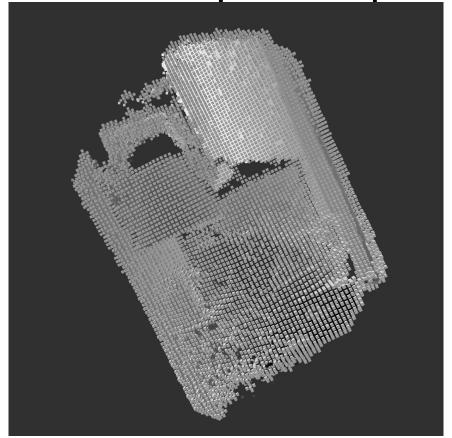
Multi-Modal Geometric Learning for Grasping and Manipulation

David Watkins-Valls, Jacob Varley, Peter Allen

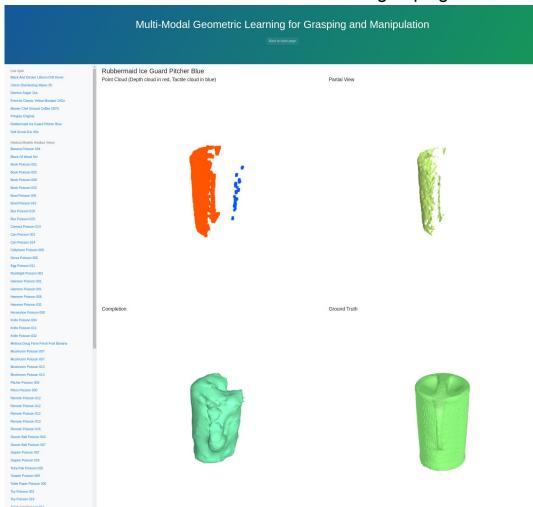
We gratefully acknowledge the support of NVIDIA Corporation with the donation of the Titan Xp GPU used for this research This work is supported by NSF Grant CMMI 1734557



Realtime Shape Completion



crlab.cs.columbia.edu/visualtactilegrasping



Next Steps

- RGB voxel grid
- Affordance labeling of output voxels
- Segmentation of resultant voxel grids
- Next best touch