## Accurate Geo-registration by Ground-to-Aerial Image Matching Q. Shan, C. Wu and B. Curless (THREEDV 2014)



- Geo-registering ground-based multi-view stereo models by ground-to-aerial image matching
- Fully automated matching method that handles ground to aerial viewpoint variation
  - Approximate ground-based MVS model by GPS-based geo-registration using EXIF tags
  - Retrieve oblique aerial views from Google Maps based on estimated geo-location
  - Feature matches between ground and aerial images for pixel-level accuracy
- Large-scale experiments which consist of many popular outdoor landmarks in Rome using images from Flickr
- Outperforms state-of-the-art significantly and yields geo-registration at pixel-level accuracy