

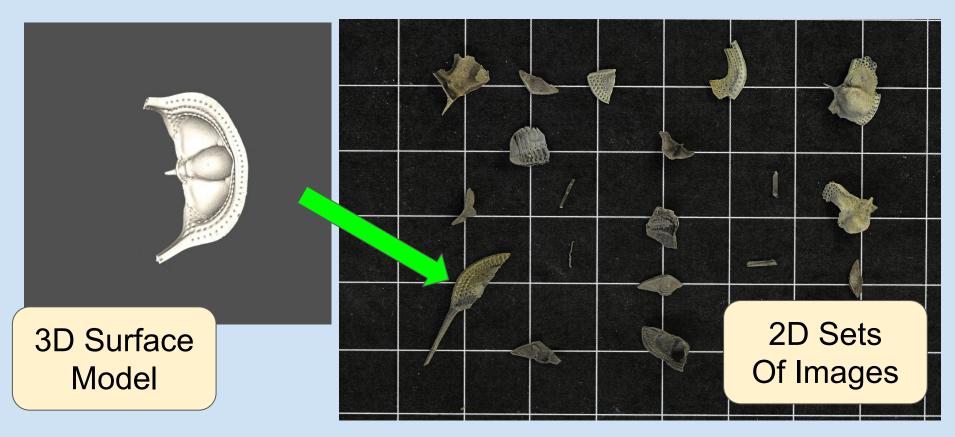
#### Team & Repository

Sean McGuffee, Sophia van Valkenburg Teodora Szasz, and Luis Ibanez

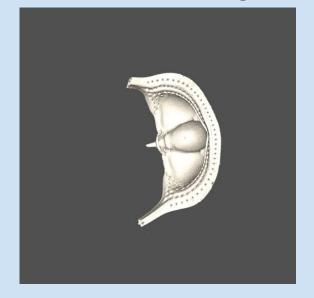
https://github.com/HackTheDeep/virtual-fossil-fragmenter

https://github.com/amnh/HackTheDeep/tree/master/challenges/Virtual\_Fossil\_Fragmenter

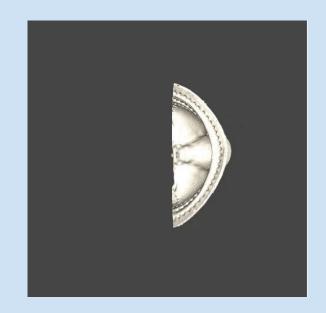
## The Challenge



## 3D Model → Fragments



3D Surface Model



3D Surface Fragment

## 3D Model → Fragments



### 2D Images → Fossil Features



Outline



Parallel Ridges

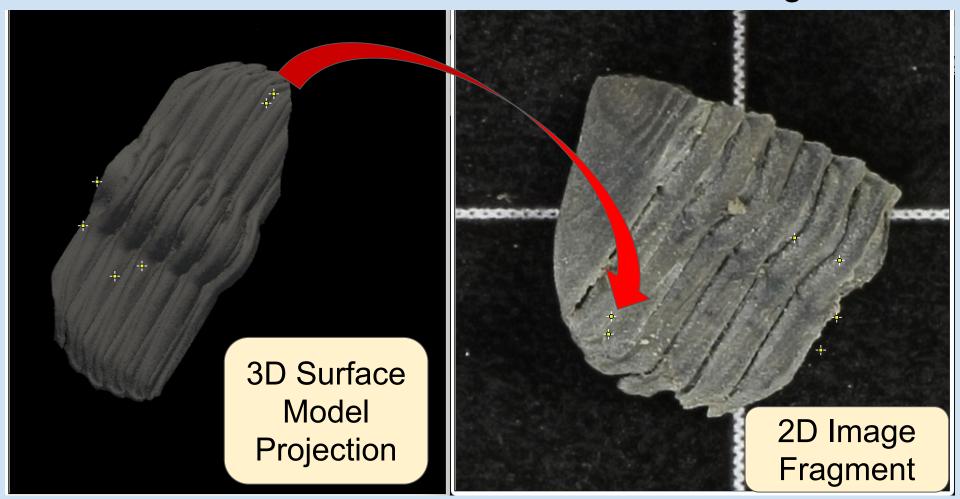


Circular Holes

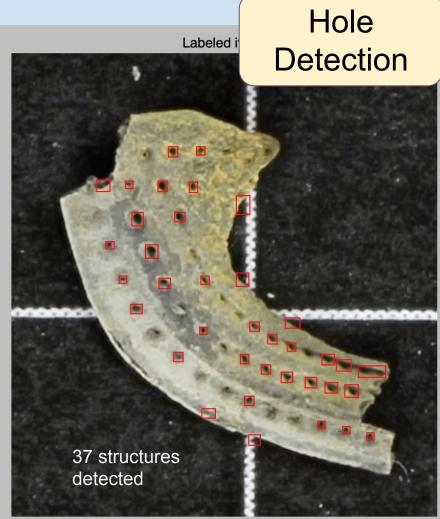
# Feature Based Detection (MOPS)



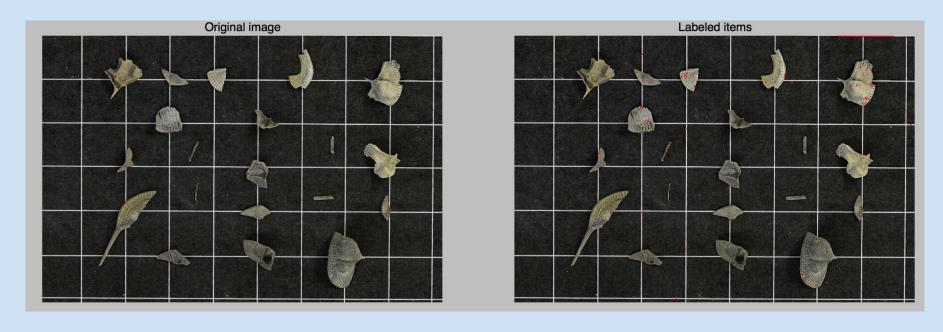
#### Feature Based Detection - 3D Model to 2D image



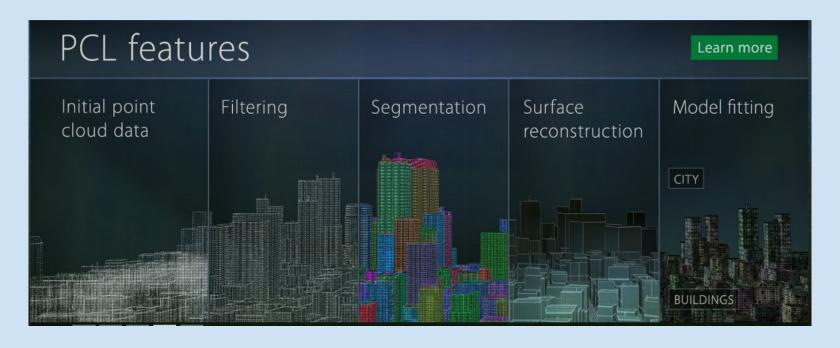




## More Challenges → Future Work



#### Other Explorations - Point Cloud Library



## Other Explorations - Point Cloud Library

