

## Visual Analytics and Real-time Volume Rendering

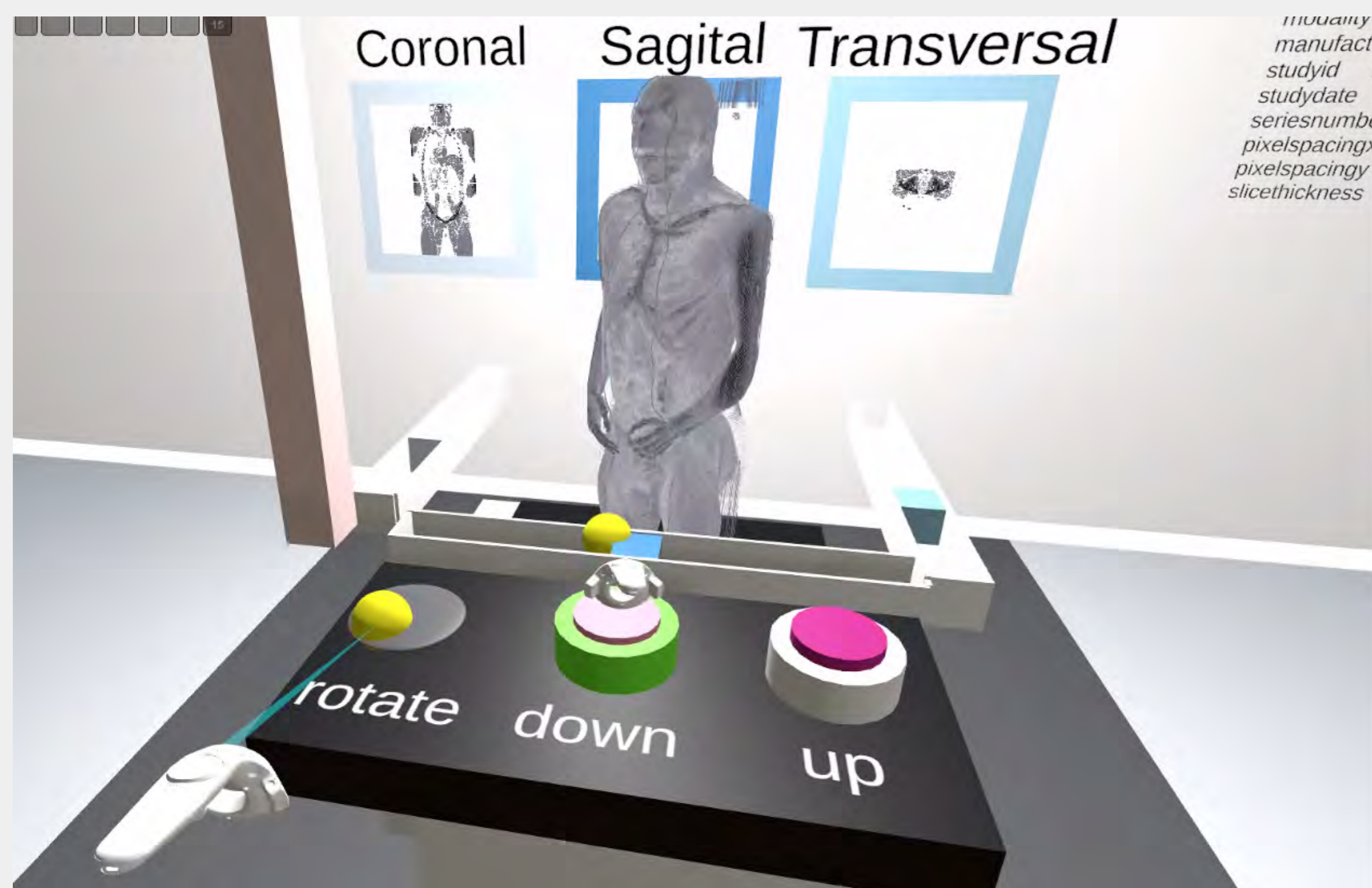
Real-Time Visualization + Machine Learning = Visual Analytics

Visual Analytics + Virtual Reality = Immersive Analytics

## Volume Data



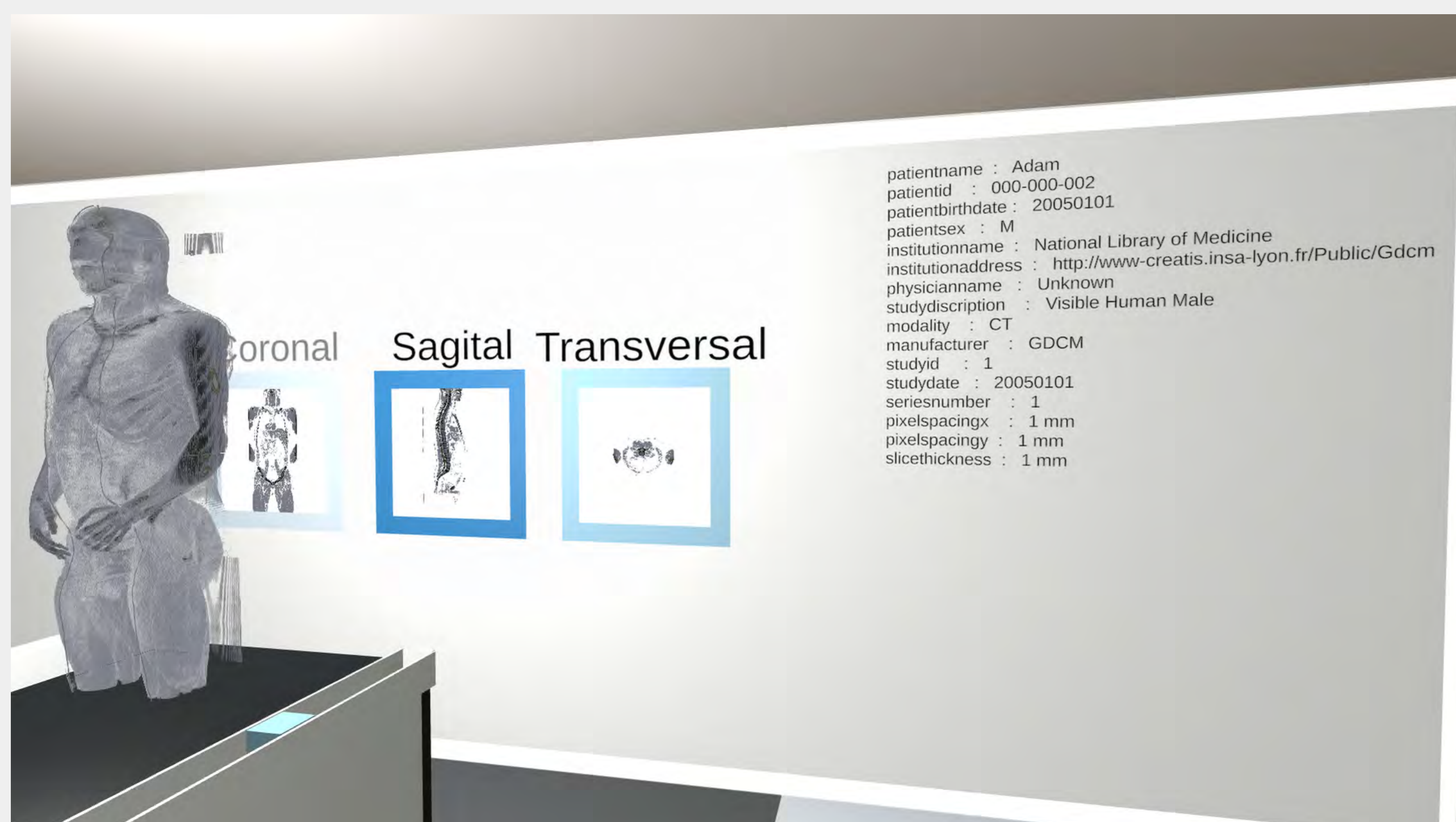
## Real-time Interaction



## Head-Mounted Displays



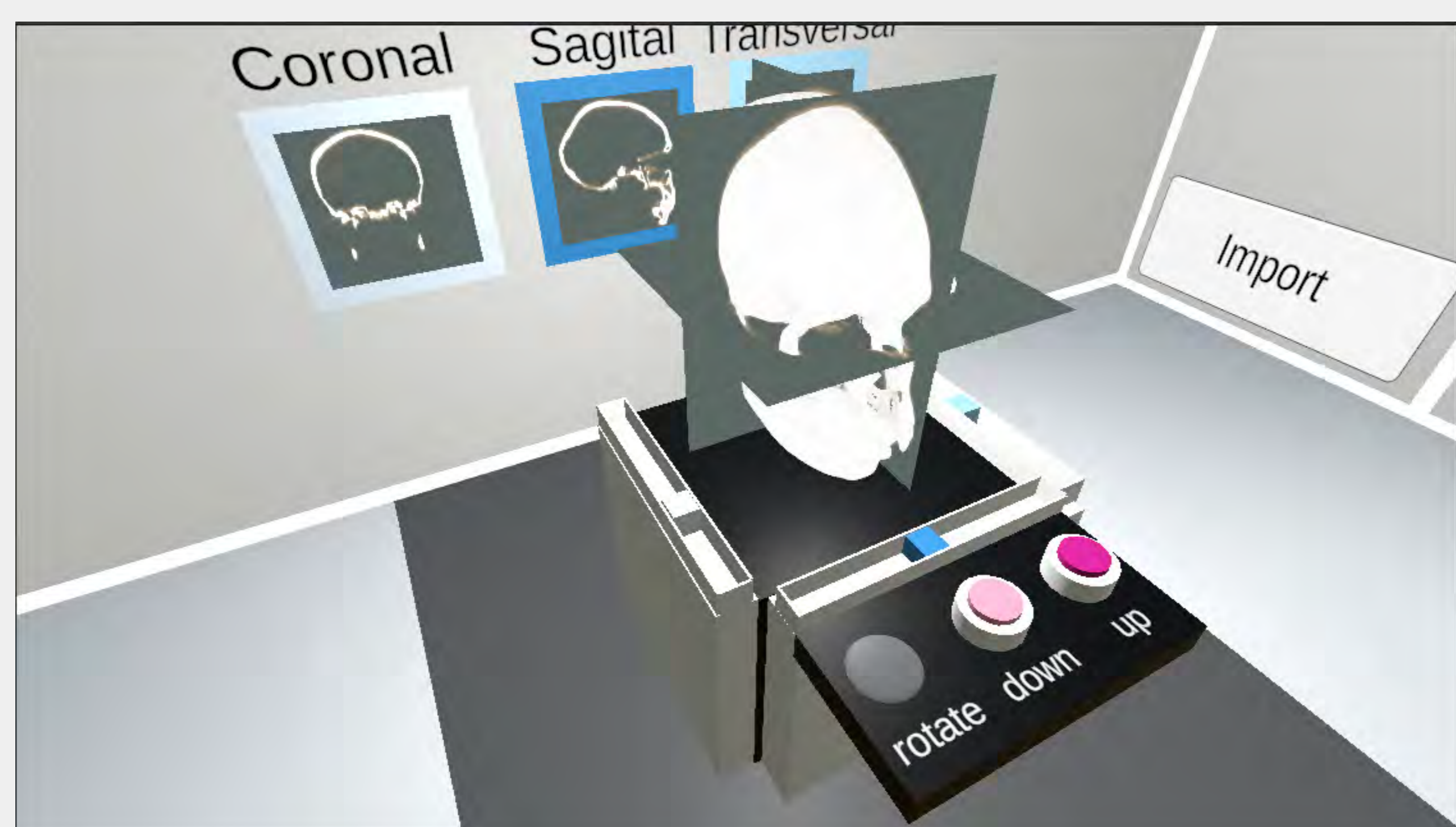
## DICOM



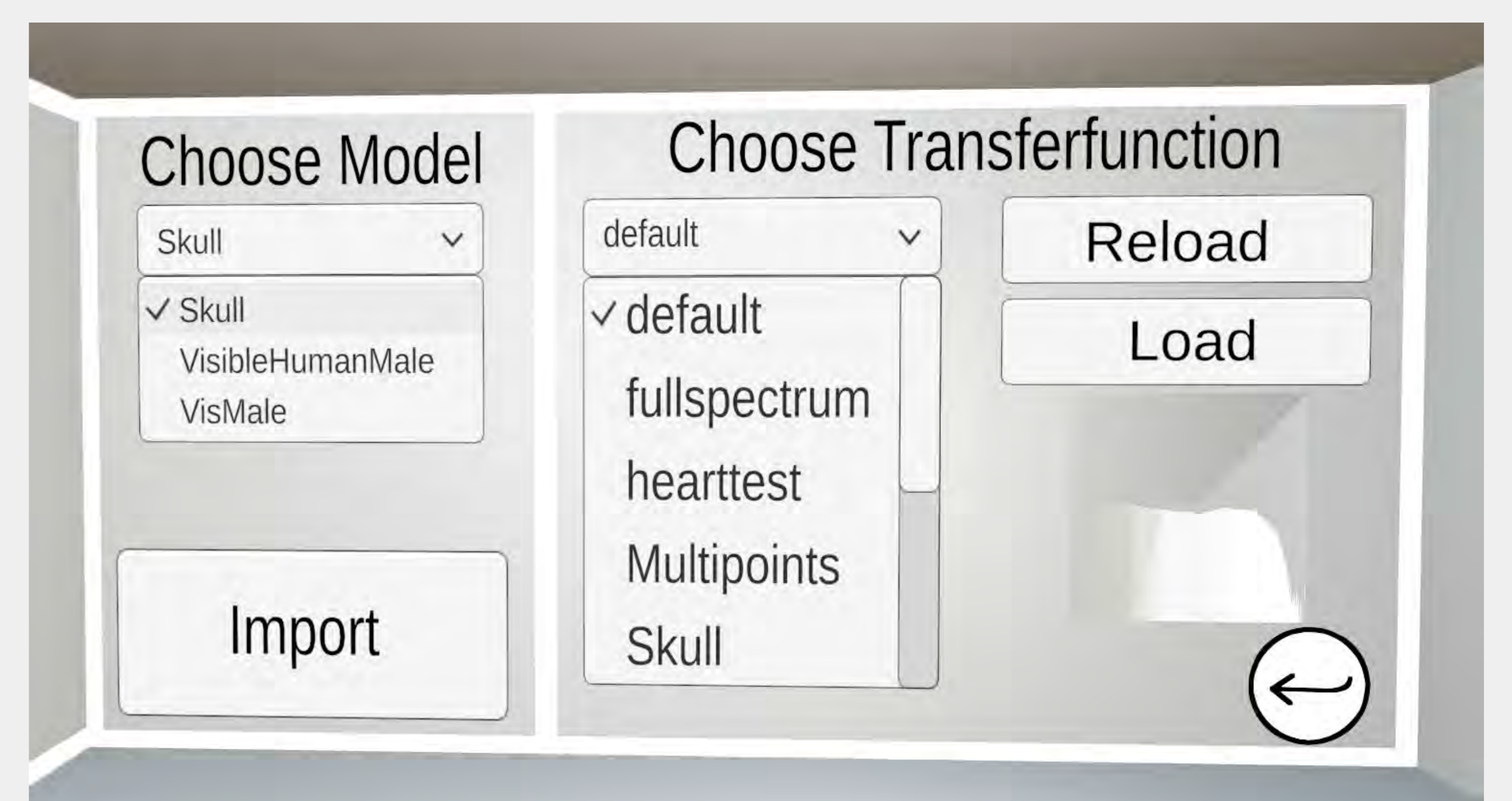
## Interactive Editing of Transfer Functions



## Interactive Slicing



## Settings and Data



## Contact



✉ manfred.brill@hs-kl.de

🌐 github.com/VRLAB-HSKL/ImmersiveVolumeGraphics

## References

[NLM94] NLM:  
National library of medicine — the visible human project, 1994.  
[https://www.nlm.nih.gov/research/visible/visible\\_human.html](https://www.nlm.nih.gov/research/visible/visible_human.html), last view: 27.2.2021.

[Nol21] NOLL M. M.:  
*Immersive Visualization of Radiological Data*.  
Master's thesis, University of Applied Sciences Kaiserslautern, 2021.