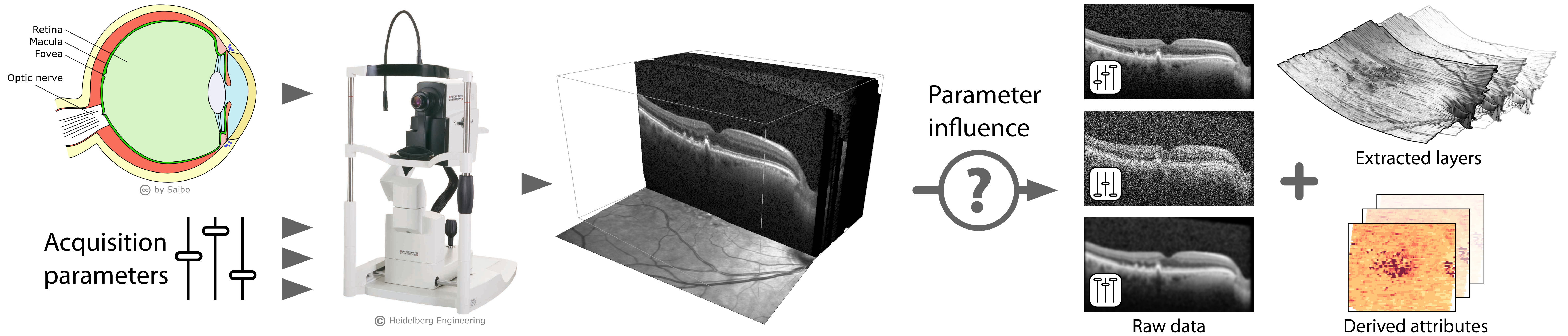


Visually Analyzing Parameter Influence on Optical Coherence Tomography Data in Ophthalmology

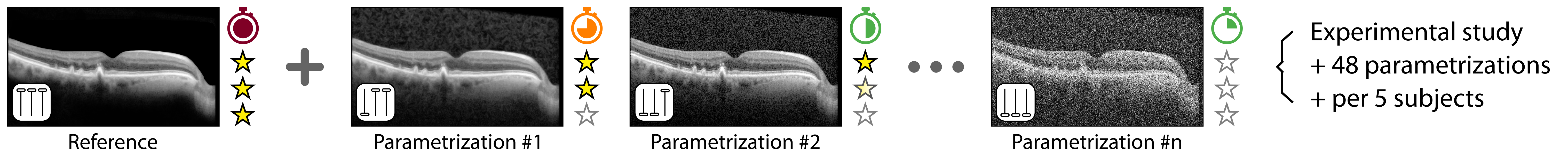
Martin Röhlig¹, Martin Luboschik¹, Ruby Kala Prakasam², Oliver Stachs², Heidrun Schumann¹

① Aim: Understanding Parameter Influence

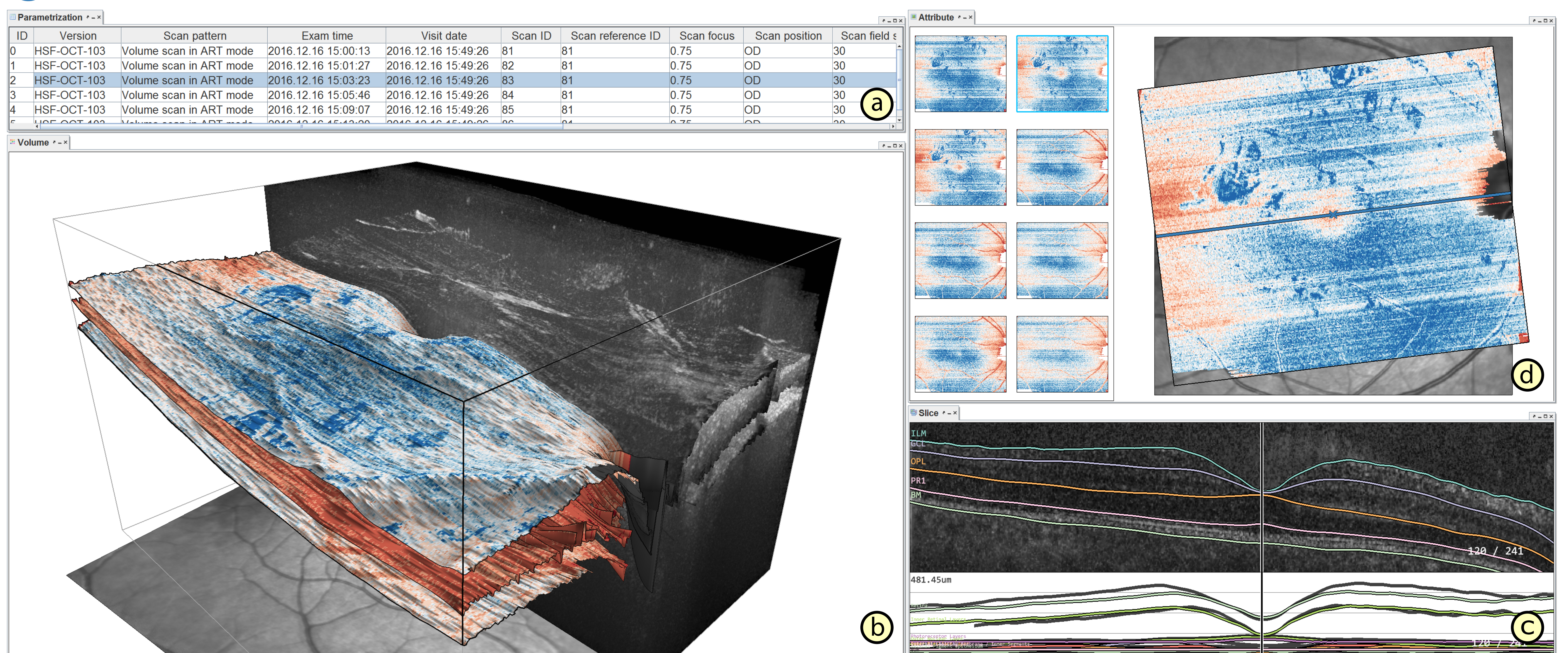


② Method: Visual Parameter Analysis

① Parameter Sweep



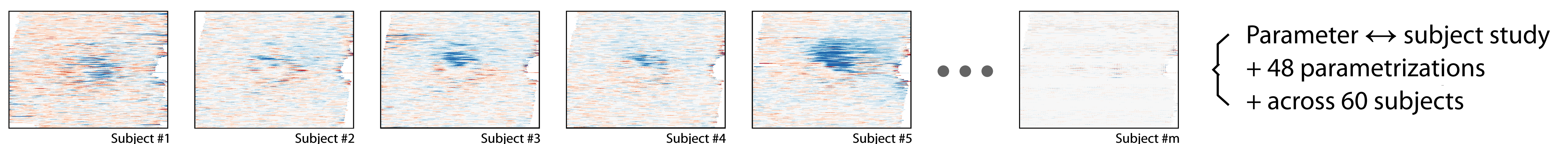
② Interactive Comparative Visualization



User interface: a) parametrization view, b) 3D tomogram view, c) 2D slice image view, and d) attribute view

Deviation from reference (low to high): raw data attribute

③ Conclusion and Future Work



- ✓ Visual analysis of influence of acquisition parameters per subject
- ⚙️ Parameter influence and interplay *across subjects*
- ⚙️ Parameter influence of *OCT data processing stages* (layers + attributes)
- ⚙️ Automated, visual, and interactive means for *larger number of parameters*



University of Rostock, Germany

¹ Institute of Computer Science
Contact: martin.roehlig@uni-rostock.de

² Department of Ophthalmology
Contact: oliver.stachs@med.uni-rostock.de