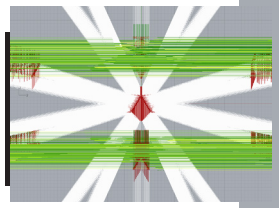
Institute for advanced architecture of Catalonia | BARCELONA

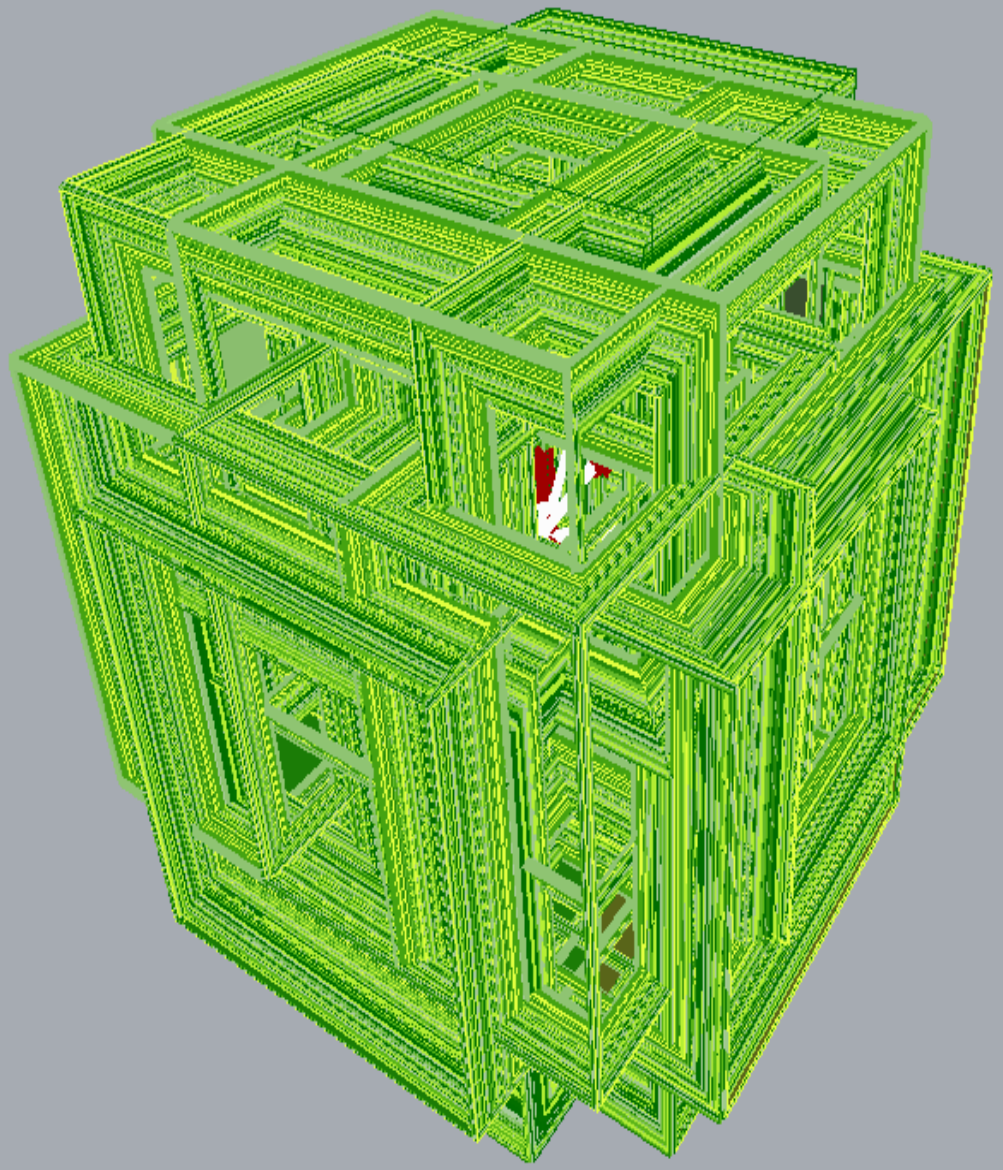
MASTER IN ADVANCED ARCHITECTURE
SO.3 COMPUTATIONAL DESIGN - GENERATIVE ALGORITHMS
2016/2017

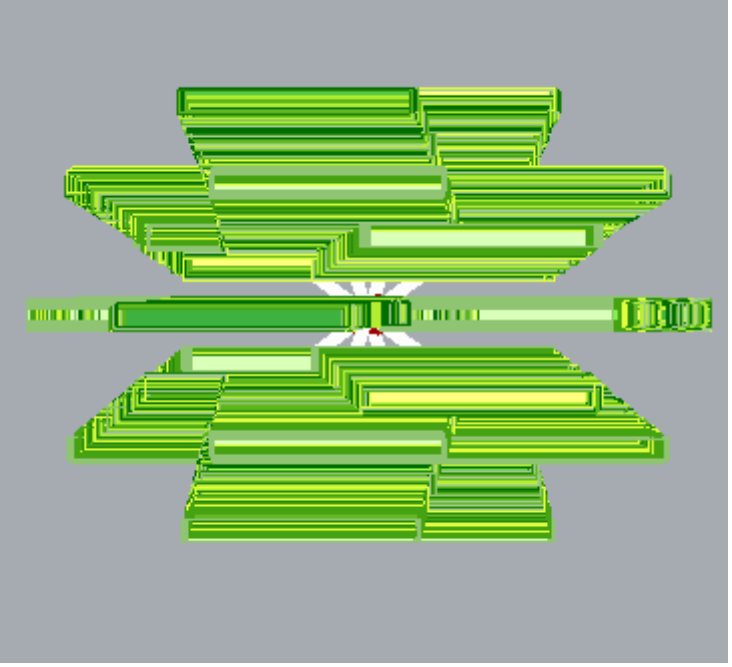
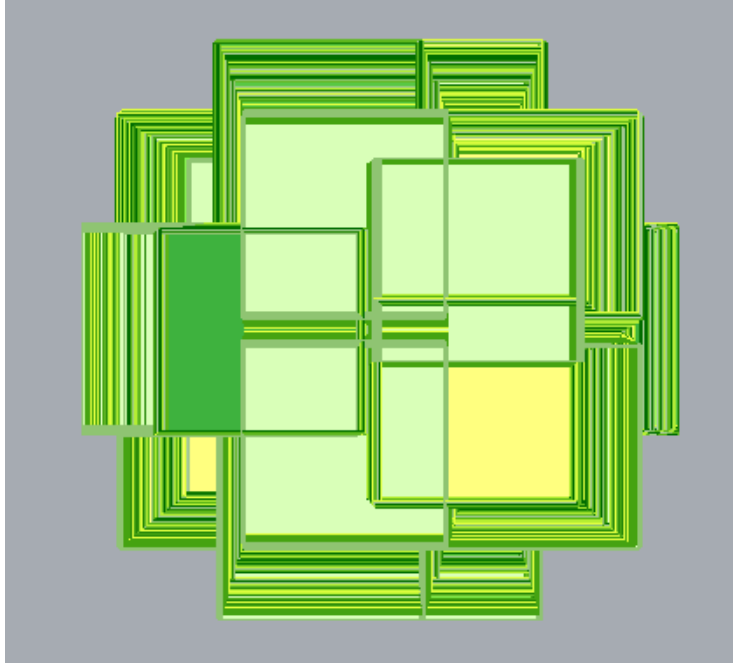
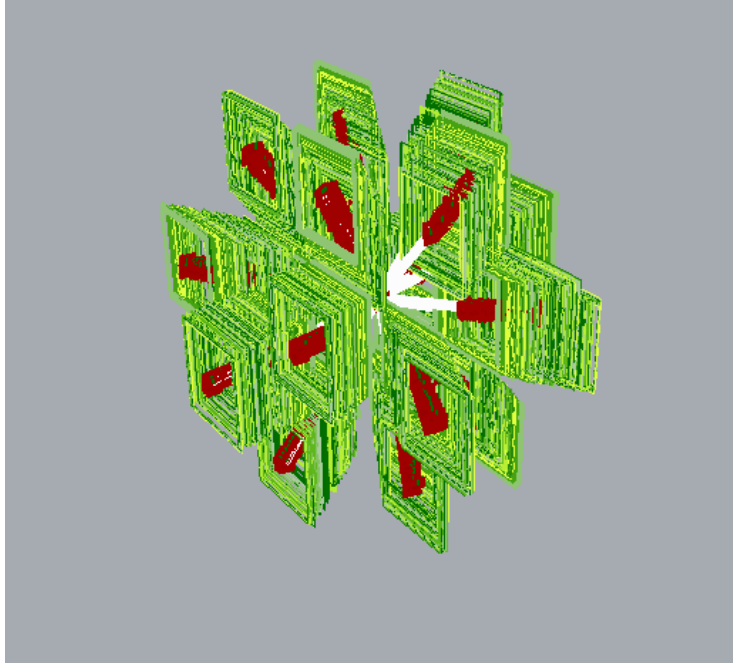
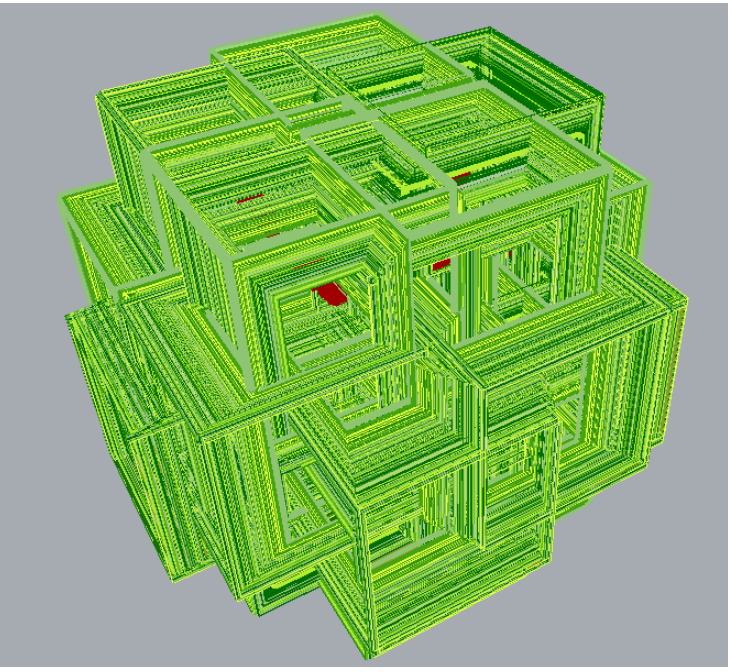
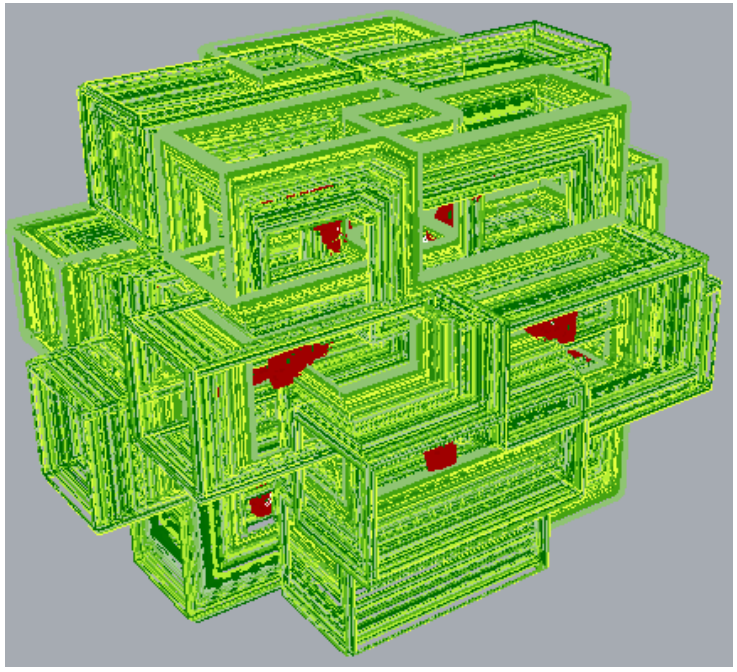
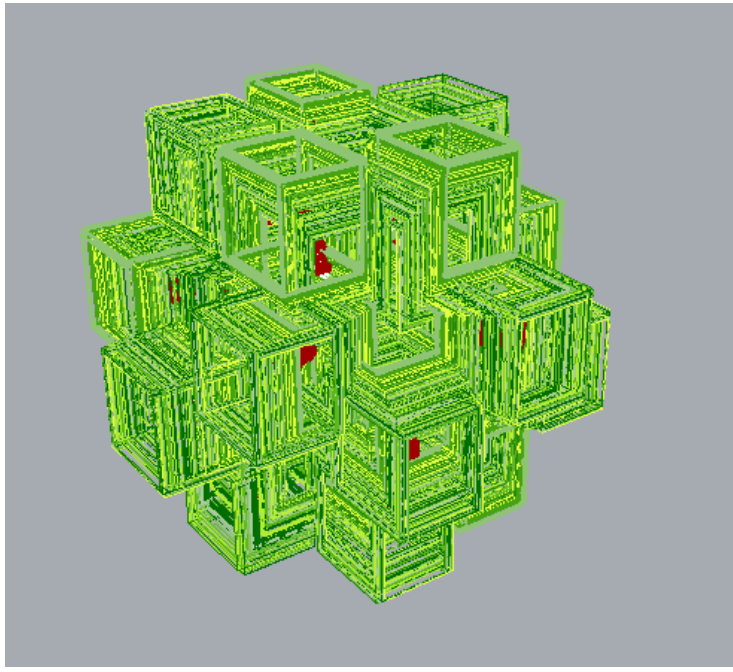
TUTORS: RODRIGO AGUIRRE, ALDO SOLLAZO

QUATERNION

Malavika Mehta

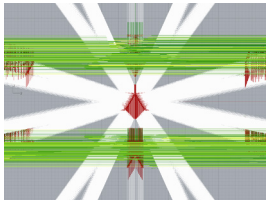




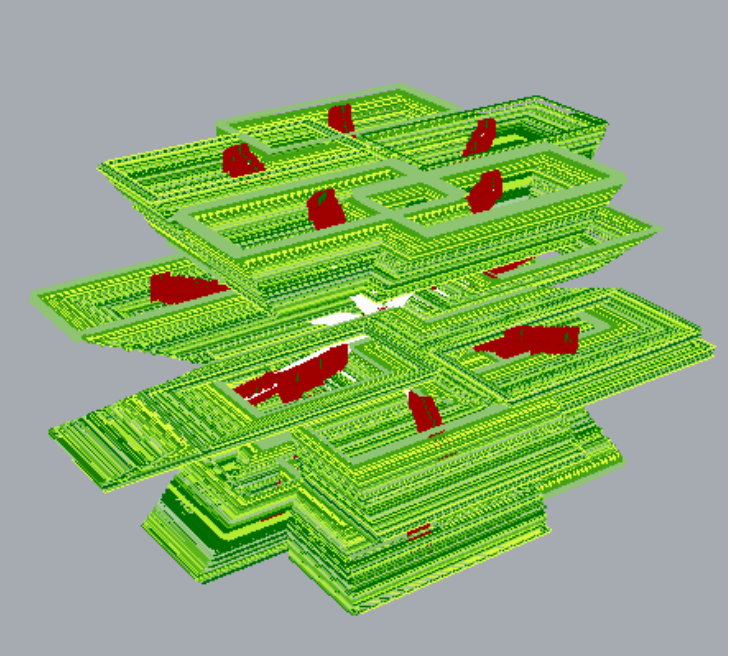
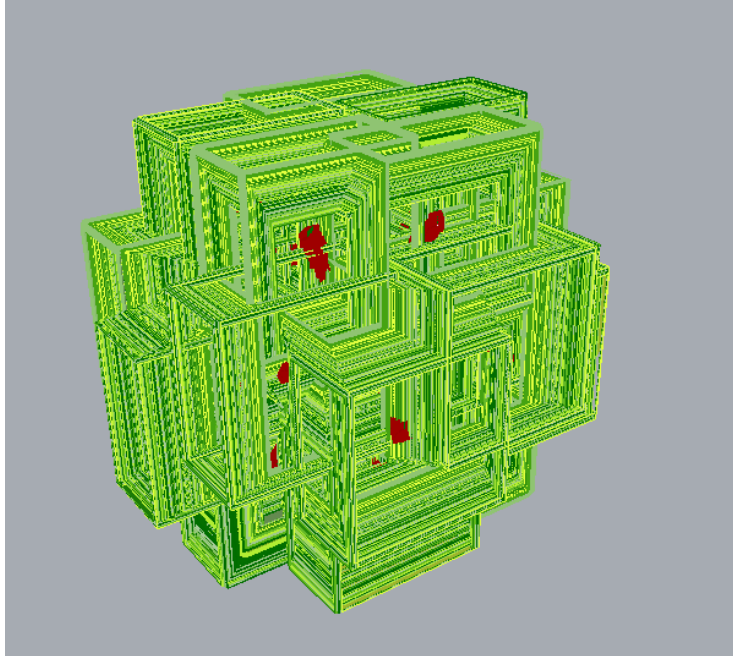
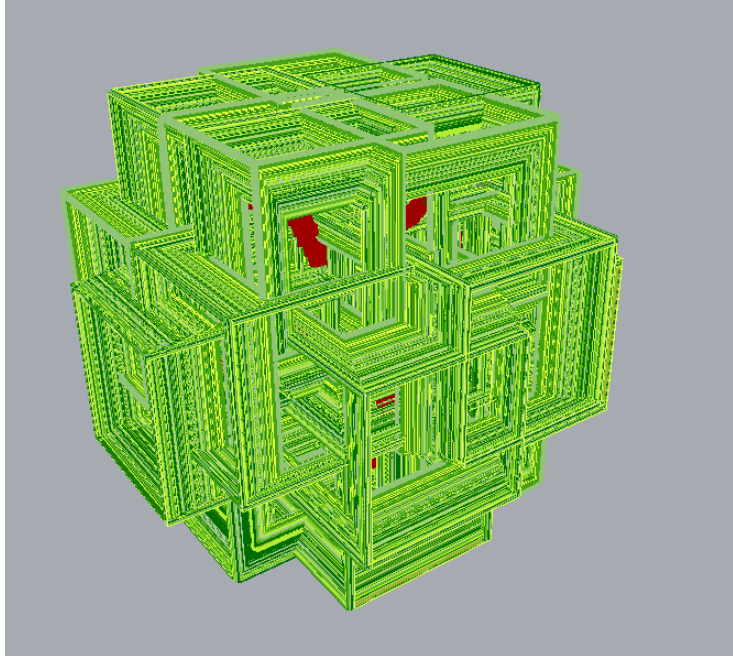
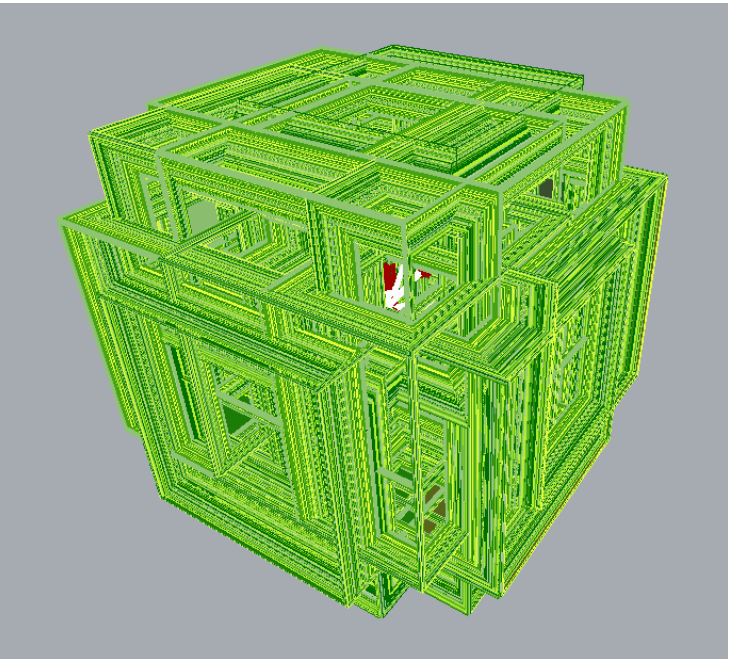
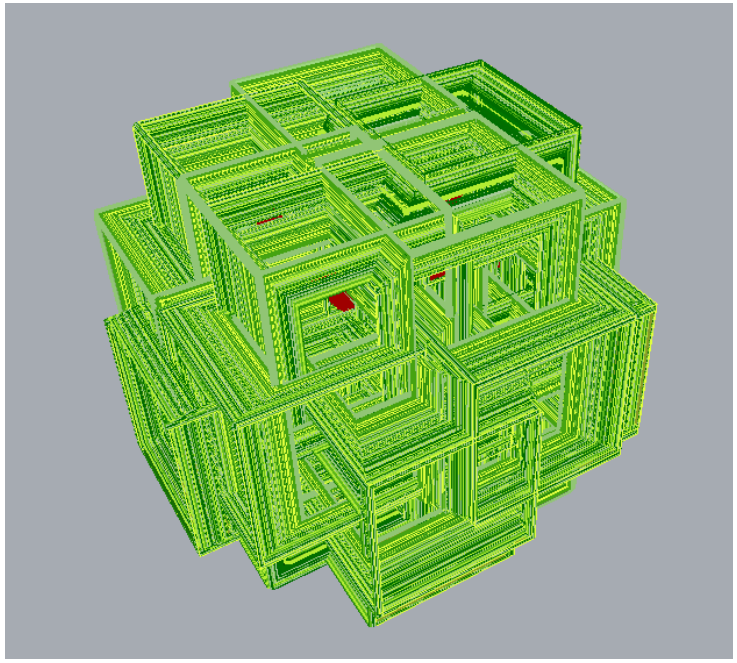
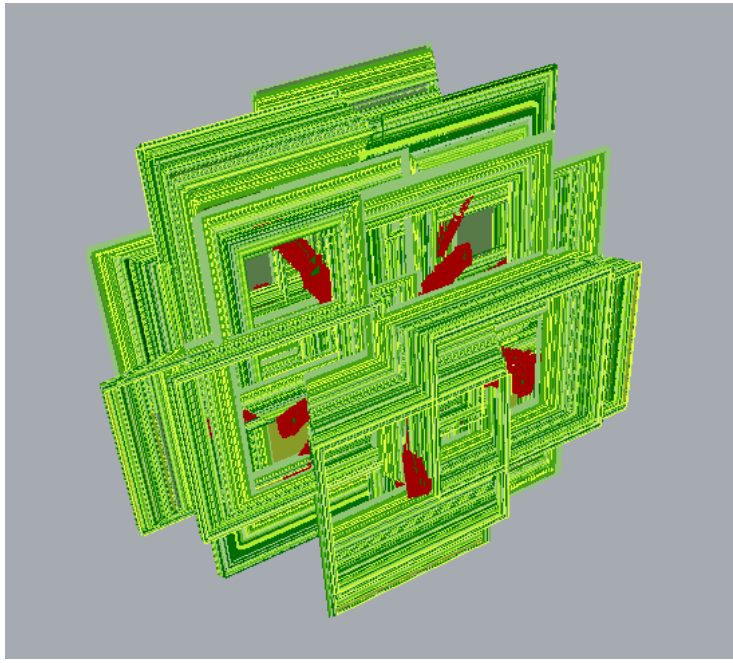
Institute for advanced architecture of Catalonia

MASTER IN ADVANCED ARCHITECTURE
SO.3 COMPUTATIONAL DESIGN - GENERATIVE ALGORITHMS
2016/2017



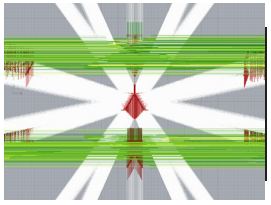
QUATERNION

Malavika Mehta

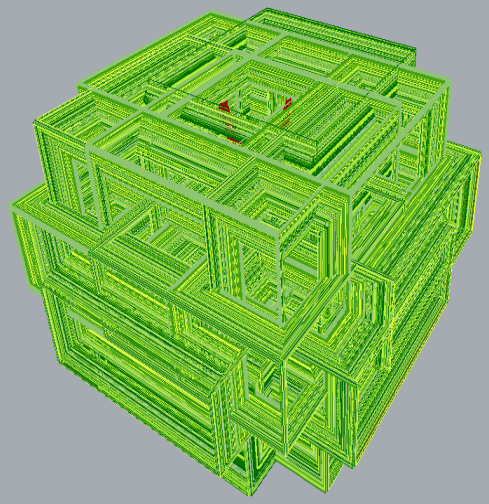
Institute for advanced architecture of Catalonia

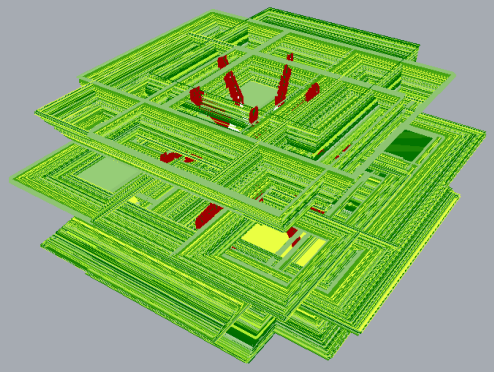
MASTER IN ADVANCED ARCHITECTURE
SO.3 COMPUTATIONAL DESIGN - GENERATIVE ALGORITHMS
2016/2017



QUATERNION

Malavika Mehta





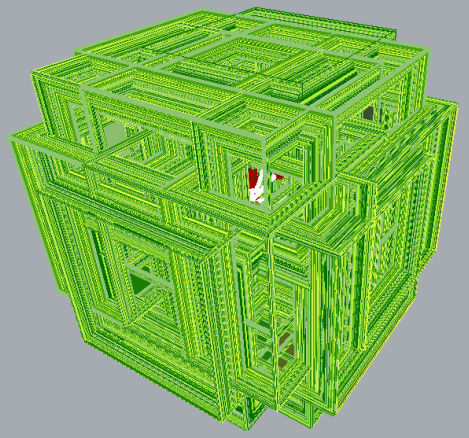
Recursive Transformations along the three axis was possible by using the 'Surface Closest Point' command.

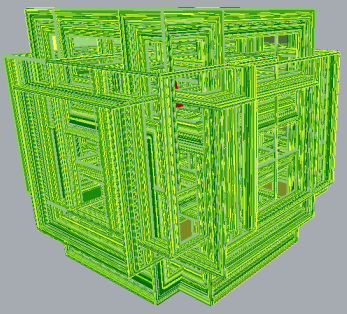
The cubes were projected from the planes on the sphere. Sizes of the cubes were manipulated using the attractor.

Having adjusted the parameters along the three dimensions, an additive-subtractive form was achieved.

Finally, the gradient tool helped to give a shape to the entire system. Using random, list and domain, the colour patterns were formulated.

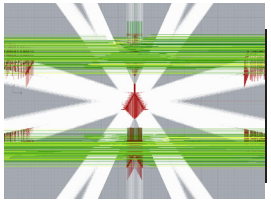
The geometry of the weaverbird's icosahedron was distorted and transformed into a multi-faceted extruded structure.





Institute for advanced architecture of Catalonia

MASTER IN ADVANCED ARCHITECTURE
SO.3 COMPUTATIONAL DESIGN - GENERATIVE ALGORITHMS
2016/2017



QUATERNION

Malavika Mehta