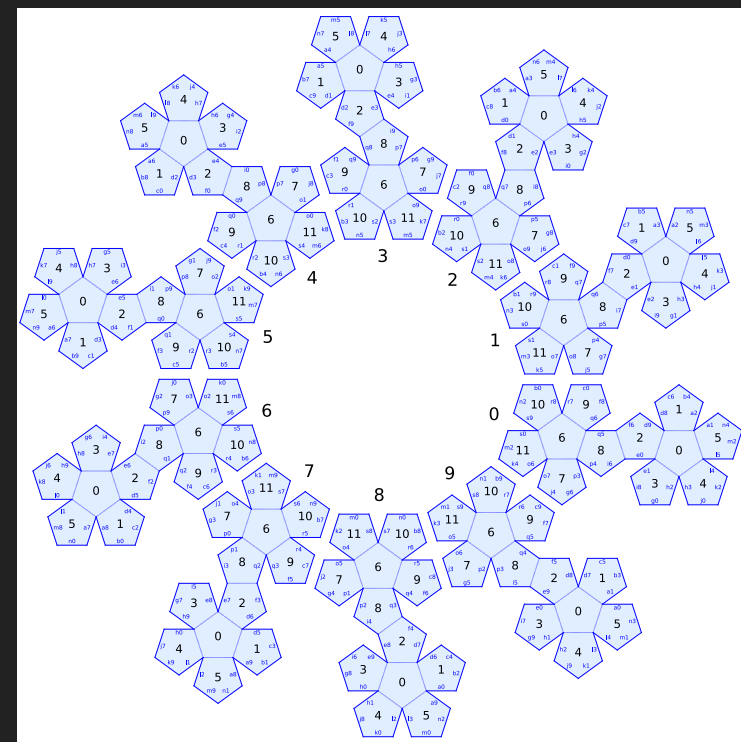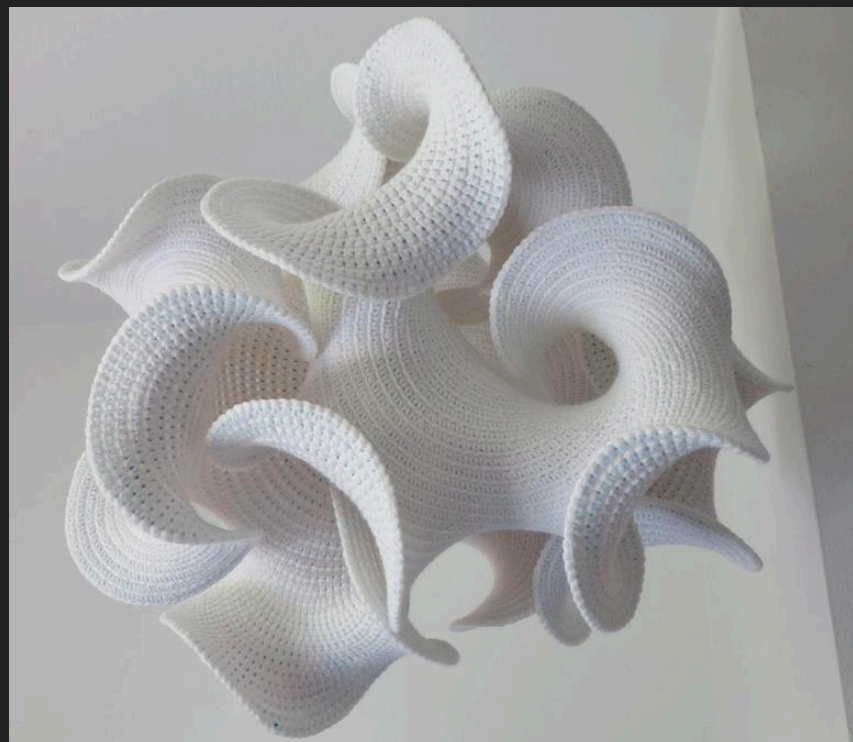# JAYADEV S. ATHREYA

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ANALYSIS AND GEOMETRY OF RANDOM SPACES

RESEARCH MEMBER

RANDOM FLAT AND HYPERBOLIC SURFACES

▸ Random translation surfaces (Masur-Veech, combinatorial)

▸ Random hyperbolic surfaces (Weil-Petersson, Brooks-Makover, Mirzakhani)

▸ Understanding variance and correlations of curves

▸ A.-Cheung-Masur; Arana-Herrera-A.; A.-Fairchild-Masur