

# **Showcasing The Role of The Pattern Cutter: Emerging Digital Pattern Cutting Simulation in Archival Garment Studies.**

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**Abstract:** This paper outlines a recent investigation using digital garment simulation technology CLO3D, with archival garments to examine past pattern cutting techniques. This work bridges a gap between archival study, two-dimensional pattern cutting and three-dimensional garment simulation that builds upon research which is currently limited within this field. Currently, access to artefacts is restricted due to lack of resources and the geographical location of each museum or collection. These present barriers to professionals gaining access to important collections that are of historical importance. The innovative digital approach developed unlocks previously hidden pattern cutting techniques embedded in each garment and reveals insights from the past to the consciousness of new audiences thus enhancing knowledge development in the industry.

**Key words:** Pattern cutting, garment simulation, fashion archive, digital replica, CLO3D