

## PRELIMINARY STUDY ON SHAPING EFFECT OF BRA GORE

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### ABSTRACT

With the continuous development of the economy and the improvement and enhancement of people's material conditions, people are paying more attention to the pursuit of health and fashion. In terms of women's lingerie, their requirements for bra are not only the role of covering and supporting breasts, but also about the bra's shaping effect. In this paper, bra shaping effect based on gore was preliminary explored. Nine bras of B75 size with different gore parameters were made as the experimental object. The gore parameters were divided into two parts: gore height and gore width. The values of gore parameters of each bra were set according to the market research. The non-contact measurement method was used to scan 3 female subjects whose age between 18 and 35 age and wearing the bra size with B75. Measure 16 measurements which had relationship with the bra shaping effect when the subjects were in nude and wearing 9 bras under static conditions respectively. The gap value between the nude measurement and the wearing each bra ones was the data used in the following research. Analyze the data by Statistical analysis, calculate each bra's combined shaping score based on components' weight and score and find that the bra with gore width 4.5cm/gore height 2.0cm showed the optimal shaping effect with the highest score, 0.61. What's more, this research preliminary demonstrated the variables: BP-UBP(1)--vertical arc length, BP-UBP(2)--straight distance, Breast breadth horizontal--breast breadth, which can preliminary judge and express shaping effect of bra with set gore width/height. This study can provide data reference for bra designer/pattern maker to develop or improve the bra design, and guide female consumers how to choose better bras for themselves in daily life. For the further research, how the gore concretely influences the bra shaping effect with the width/height variations and how the gore influenced the breast shape will be processed.

## Student Experience

Students reported enthusiasm for having a dress form to use at home. Some added innovations such as covering the form with tape for stability or mounting it on a stand for ease of use. They were able to successfully carry out their final assignment using the device to quickly ideate novel art-to-wear garments incorporating off-the-body forms. They were also able to use simple math to scale their garments up to full size, reflecting the accuracy and usability of the device.

## Conclusions

As part of their self-reflective process the primary investigators gathered insights on this adaptive strategy in the context of development, implementation, and reflection. While development and implementation were successful as demonstrated in student work, since returning to in-person learning the co-instructors have refrained from using it again. One obvious conclusion they have noted is that dress forms available in the classroom present a superior experience for the students, however, researcher reflections also point to a trauma association with the paper dress form. As it was a response to a crisis, for them, the paper dress form carries the weight of that crisis even in its ephemeral nature.