



## Geometric Morphometrics: an excellent complement to Delaire's analysis

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### Abstract :

Geometric morphometrics is a new tool for morphological analysis that has been used by biologists and anthropologists in the study of phenotypic variation in both, animal and human populations. Several authors have carried out studies in the

craniofacial territory highlighting the possible advantages over conventional cephalometry.

One of the most relevant aspects of geometric morphometrics is that it allows visualizing the pattern of craniofacial variation through a morphometric space. This space is created through the spatial information contained in the landmarks of lateral cephalometry, which are the same as those commonly used in any cephalometric analysis. Once this morphometric space is created, the diagnosis of maxillofacial deformities can be performed in a simple way.

The power point presentation shows the process of creating the craniofacial morphometric space from lateral skull teloradiographs. Subsequently it will be shown how the pattern of craniofacial variation in the morphometric space can be visualized. The craniofacial morphological features showed by Delaire's analysis can also be appreciated with the use of geometric morphometrics, including head and neck postural disorders.