

Face3D project: a study on facial shape

Request for participation in the collection of control data from students and staff

A consortium of research partners involving the University of Glasgow (Statistics, Computing Science, Dental School), the Royal College of Surgeons in Ireland, Dublin City University, the University of Limerick and the Institute of Technology in Tralee has been awarded funding by the Wellcome Trust to pursue research in three-dimensional facial shape. Two medical applications are involved, one on the developmental processes associated with schizophrenia and the other on the success of orthognathic surgery.

Control data are required as part of this study and you are invited to participate. This would involve a brief 15 minute session where a stereo-camera system will be used to capture your facial shape in three dimensions. Some brief questions will also be asked. In order to address the specific research questions of the study, there is biological and medical information we must gather and the questions you will be asked are listed overleaf. In particular, criteria for acceptable control data for this study include ethnic origin, namely *white British, white Scottish, white Irish, white European* as defined by the Office of National Statistics. Height, weight and a measurement of body fat will also be taken as these may be linked to facial shape. A simple electronic device will be used for body fat; this requires skin sensors to be placed on ankle and wrist. However, these measurements are optional.

Your data will be used in the construction of a database to characterise control facial shape. This will be invaluable information in identifying the special characteristics of the patient groups of interest. As a further incentive to participate, you will be given a virtual three-dimensional image of your face.

Your data will be held in a secure location and will be used only by those in Glasgow and Ireland who are involved in the research project. However, we are also seeking permission to make the data more widely available at the end of the project. Your image will not be identifiable by name and any personal medical information will be removed. However, due to the nature of a facial image anonymity cannot be completely preserved.

Guidance for participants

Data from those who have beards, moustaches or other types of facial hair cannot be used because of the difficulty in constructing suitable images of facial shape.

Prior to arrival, participants are requested to refrain from using heavy make-up.

During image capture, participants will be asked to pull their hair away from their face. Hair clips or hair bands will be provided.

Questions to be asked

1. Date of birth
2. Sex
3. E-mail address
4. Have you ever had any serious facial injury?
5. Have you had, or are you seeking, any serious facial surgery, cosmetic or otherwise?
6. Is there a history of cleft lip and/or palate in your family?
7. Were both of your biological parents born in the British Isles?
(England , Scotland, Wales, Northern Ireland or Republic of Ireland)
8. Were all of your grandparents born in the British Isles?
(England , Scotland, Wales, Northern Ireland or Republic of Ireland)
9. What best describes your ethnic group?
(white British, white Scottish, white Irish, white European, other)
10. Is there a history of psychotic illness or suicide in a first degree relative?
(Psychotic illness refers to conditions such as schizophrenia and not to conditions such as depressive disorders. A first degree relative refers to mother, father, sibling, son or daughter.) [This question is optional.]

Permission

Participants will be asked to sign the following statement, giving permission for the data to be used.

I have read the information sheet for this study and I agree that the data collected from me in this study can be used for the purposes of the research involved, and that the facial image, together with information on age, sex and ethnic background (questions 1, 2, 7-9), may be made available freely to others in an anonymised manner, thereafter.

Participants have the right to withdraw retrospectively any permission given and to require that their own data be destroyed. However, this cannot be effected once the data becomes available beyond the research project.

Further information on the research project

Questions about participation, or about the research project more generally, may be directed to adrian.bowman@glasgow.ac.uk.

The research project has a web site (address below) where further information is available and where the results of the research will be posted in due course.

www.Face3D.ac.uk