



**Anglia Ruskin
University**

Cambridge Chelmsford Peterborough

Using Gaze-Contingent Display Manipulations to Understand the Role of Central and Peripheral Vision in Shooting Performance

You are invited to participate in a research study conducted by Prof Peter Allen (Anglia Ruskin University) and Dr Donghyun Ryu of (Bangor University)

The purpose of this study is to determine the role that central and peripheral vision plays in shooting performance. This work will help the research team recommend the visual field loss necessary to set the minimum impairment criteria for visual impaired shooting.

In this study you will be asked to shoot the target on the screen under different conditions. In some conditions, your vision will be restricted by blurring out your central or peripheral visual field on the screen. Even in these conditions, your task will be the same, so you can try to shoot as accurately as possible at the target which will be presented on the screen. While you are shooting your eye movements will be monitored so we can accurately simulate the loss to your central or peripheral vision. The experiment will take approximately 45 minutes to complete.

The test required no physical exertion or discomfort beyond that commonly encountered in everyday life. You will be asked to hold your head steady throughout the experiment to allow us to measure your eye movements. If this causes any discomfort please ask for a break in testing and this will be provided.

Your results will remain strictly confidential and that the information obtained in the study will be used for research purposes only. Your data are retained in a locked space accessible only to the principal investigator and research assistant on the project and are stored electronically by number and not name. In the reporting of the results of the study we will only quote group mean values and not individual scores.

Your participation is voluntary. This means that you can choose to stop at any time without negative consequences.

If you have any questions or concerns about the research, please feel free to contact Peter Allen on peter.allen@anglia.ac.uk or 07051400807.