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**Information sheet and consent form to participate in a research study**

Thank you for your interest in our study. Before you decide to take part it is important that you understand why this research is being conducted and what it involves. If you have any questions please feel free to ask them at any point.

**Principal Investigator’s Name:** Dr. Katja Kornysheva, e.kornysheva@bangor.ac.uk

**Study title:** Acquisition and control of action sequences

**What is the purpose of the study?**

The purpose of this work to increase our understanding of the processes involved in learning and controlling skilled action sequences. You are being asked to participate because you are a healthy adult. The data obtained through your participation will be included with that from other subjects as part of a scientific study to appear in peer-reviewed literature. Results from this project will have relevance to understanding and improving the rehabilitation of a wide variety of disorders that compromise the patient's ability to perform activities of daily living such as tool use, speech, musical and athletic performance, including dyspraxia, stuttering and task-dependent dystonia. It may also lead to the development of protocols to improve sequence learning and control in highly skilled individuals (e.g. musicians and athletes).

**What does this study involve?**

The participation can involve one to three sessions taking place on consecutive days (up to 2 hours per session) and may involve measurements such as finger movements on a response button device or force transducer keyboard, speech recordings and upper or whole body motion capture. In some cases we will measure your movements by attaching small, sphere-shaped markers to your body, e.g. your fingers, hands, arms, shoulders, face, head or legs using tape. These markers allow us to track your movements in space and time, so that we can estimate things like the position and speed of your body parts over time. In some of our studies, we will also record eye-movements using an eye tracking camera and muscle activity with electromyography (EMG) by placing electrodes on the surface of your skin.

**Do I have to take part?**

No. It is up to you whether you participate in this experiment or not. You may withdraw from the study at any point and if you feel uncomfortable the study will be discontinued.

**What are the possible disadvantages and risks of taking part in this study?**

The tests are not painful and do not pose any danger. However, you may experience fatigue or postural discomfort during the action task, which you are encouraged to report any time during your participation. The experimenter will aim to alleviate these issues through breaks and postural adjustments. If fatigue/discomfort continues despite these measures, the experimenter will abort the experiment.

**Contact for further information**

In case of any queries, do not hesitate to contact the Principal Investigator on the email address above.

**Who do I contact with any concerns about this study?**

If you have any concerns or complaints about this protocol, or the conduct of individuals conducting this session, then please contact Mr. Hefin Francis, School Manager, School of Psychology, Bangor University, Bangor Gwynedd LL57 2AS or e-mail [h.francis@bangor.ac.uk](mailto:h.francis@bangor.ac.uk)

**Consent form**

# Declaration

I have read the information regarding the participation in this study conducted at Bangor University, School of Psychology. I understand that I am volunteering to take part in a computer-based task involving skilled action learning and control. I am happy for the data obtained to be stored in the understanding that it will be kept both confidential and anonymous. My participation in this study is on a voluntary basis, and I know that I can discontinue my participation at any time without having to give a reason. I have been encouraged to ask the experimenter in case any points are unclear to me. I understand that I will be provided with a debriefing sheet upon completion of the task, detailing the aims and hypotheses of the present study.

I voluntarily agree to participate.

We may be interested in collecting data from you again. Would you mind if we contacted you via email for a future study relating to skilled action learning and control (this may involve MRI)? We would reimburse you for your time at the standard rate of credits or money. 🞏 Yes 🞏 No

Date: Participant name (print):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature of participant: \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_ Signature of experimenter: \_\_\_\_\_\_