



EEG Participant Information Sheet – *How Shall We Begin Again?*

Live Performance Study # 2

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You are being invited to take part in an investigation of the experience of watching a live performance. Before you decide to participate it is important for you to understand why the research is being done and what it will involve. Please take time to read the following information carefully and discuss it with others if you wish. Ask us if there is anything that is unclear or if you would like more information. Please take time to decide whether you wish to take part.

What is the purpose of the study?

The purpose of this study is to investigate the experience of liveness in the performing arts, through artistic practice, and by measuring the brain and bodily signals of performers and spectators.

Why have I been invited to participate?

You have been invited to take part in this research as you have volunteered and meet the general criteria.

Do I have to take part?

No, it is entirely up to you to decide whether to take part. If you decide to do so, you will be asked to give your consent. Even if you decide to take part now, you can still change your mind later, without giving a reason.

Can I withdraw from the study?

Yes, you can withdraw from the study at any time without giving a reason. Withdrawing from this study will not affect your eligibility for other NEUROLIVE activities in the future. If you do decide to withdraw from the study, you will be asked what you want to happen to data you have provided up to that point, but please note that after publication of the outcomes of this research, anonymised data can no longer be removed from the study.

What will happen if I take part?

You will be invited to watch a live performance as a part of an audience of around 50 people. You are free to stay in the performance as long as you like. Before the performance we will ask you to wear a mobile electroencephalogram (EEG) that can record brain activity, a breath band and a pair of eye-tracking glasses. The process of setting up all the devices will take approximately 30 minutes. Note that not everyone in the audience will be equipped with devices. You will be invited to complete short questionnaires, before and after you attend the performance.

You are under no obligation to have wearable devices while watching the performance of *How Shall We Begin Again?* If you do not wish to take part in measurement, just let us know.

Mobile Electroencephalogram (EEG)

Your brain activity will be recorded during the performance using mobile EEG equipment. This is a non-invasive method of recording electrical signals produced by brain cells when they communicate with each other. A sensor cap (image below) will be placed on your head, and a water-based conductive gel will be placed in each

hole of the cap to make contact between the sensors and your scalp. Once the gel has been applied, the cap and sensors will be attached to a recording box and computer placed in a backpack (image below).

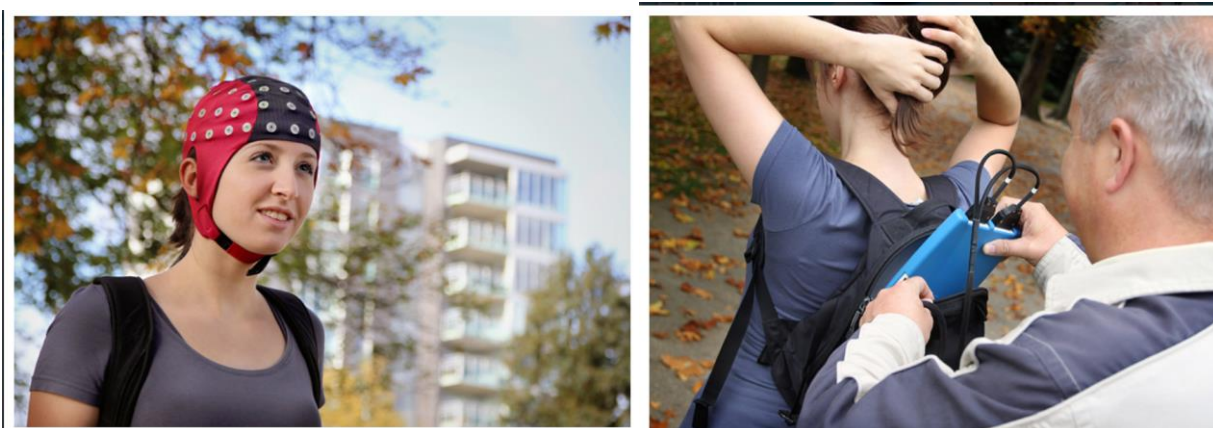


Image 1. Left: EEG Sensor Cap, Right: Backpack

The EEG procedure is comfortable and generally safe, but it does mean that you will have water-soluble gel in your hair once the cap is removed at the end of the performance. This can be cleaned using a comb and towel, which will be provided. The remaining gel will be cleaned out when you wash your hair using water and shampoo. No electricity is put into your body while the EEG is carried out, only electrical changes in the brain can be recorded using the sensor cap.

Breath band

A breath band will be used to record respiration motions and waveforms. This sensor is attached to a belt which will be clipped around your chest area for the duration of the performance.

Eye Movement Sensor Glasses

These glasses will be used to track where you look, they include a camera that records the direction of your gaze, and another camera that records the scene you are looking at. If you normally wear glasses to correct your vision, they can be worn on top of these, however contact lenses are preferable.



Image 2. Eye Movement Sensor Glasses

What are the possible disadvantages and risks of taking part?

There are no specific risks in participating in this research. However, if you wish to complain about any aspect of the way you have been approached or treated before, during, or after participation, please contact Dr Guido Orgs, see contact details above. If you feel your complaint has not been satisfactorily handled, you can contact

the Chair of the Goldsmiths Research Ethics and Integrity Sub-Committee via Research Services (020 7919 7770, reisc@gold.ac.uk).

What are the possible benefits of taking part?

The research will help us to understand how and why people attend live performance events, such as concerts, dance performances or theatre. In particular, our research aims to link the experience of such events to human psychology and brain function. Our findings will shed light on the role that the live performing arts play in modern society.

Will what I say in this study be kept confidential?

All the information that we collect from you as part of this study will be kept strictly confidential. You will not be identified in any ensuing reports or publications of the data collected. All references to participants in any subsequent publications/presentations will be anonymous. We will only collect personal data when obtaining consent. Personal data will be kept separately from anonymised data and it will not be possible to identify you based on the data that we collect from you. All data processing uses identification codes. These identification codes will be noted only on your consent form. All consent forms will be kept separate from all other data. As part of open science practice, only anonymised data sets may be shared with other researchers or may be reanalysed again. Anonymised datasets will be stored indefinitely in the university's research database for the benefit of future research. Importantly we will not share your personal data, that is your consent forms with other researchers.

Limits to confidentiality

Confidentiality will be respected subject to legal constraints and professional guidelines. Please note that assurances on confidentiality will be strictly adhered to unless evidence of wrongdoing or potential harm is uncovered. In such cases Goldsmiths may be obliged to contact relevant statutory bodies or agencies.

What will happen to the results of the research study?

All results will be coded for anonymity and then analysed by the research team before being reported in appropriate science or humanities journals and conferences. Results may also be reported on the project website, or researcher's website or used in the making of new artworks or in the promotion of this performance and other performances. All publications resulting from this research project will be open access, so will be available to the general public without any additional fees.

Who is organising and funding the research?

The research is organised by the Psychology Department at Goldsmiths, University of London in collaboration with Siobhan Davies Studios and has been approved by the Research Ethics and Integrity Sub-Committee, Goldsmiths, University of London. The research is funded by an ERC Consolidator Grant awarded to Dr Guido Orgs (864420 – NEUROLIVE).

Thank you for reading this information sheet and for considering whether to take part in this research.

Data Protection Privacy Notice

The General Data Protection Regulation [GDPR] and Goldsmiths Research: guidelines for participants. This document will be handed out together with the Information Sheet.

Please note that this document does not constitute, and should not be construed as, legal advice. These guidelines are designed to help participants understand their rights under GDPR which came into force on 25 May 2018.

Your rights as a participant (data subject) in this study

The updated data protection regulation is a series of conditions designed to protect an individual's personal data. Not all data collected for research is personal data.

Personal data is data such that a living individual can be identified; collection of personal data is sometimes essential in conducting research and GDPR sets out that data subjects should be treated in a lawful and fair manner and that information about the data processing should be explained clearly and transparently. Some data we might ask to collect falls under the heading of **special categories data**. This type of information includes data about an individual's race; ethnic origin; politics; religion; trade union membership; genetics; biometrics (where used for ID purposes); health; sex life; or sexual orientation. This data requires particular care.

Under GDPR you have the following rights over your personal data¹:

- **The right to be informed.** You must be informed if your personal data is being used.
- **The right of access.** You can ask for a copy of your data by making a 'subject access request'.
- **The right to rectification.** You can ask for your data held to be corrected.
- **The right to erasure.** You can ask for your data to be deleted.
- **The right to restrict processing.** You can limit the way an organisation uses your personal data if you are concerned about the accuracy of the data or how it is being used.
- **The right to data portability.** You have the right to get your personal data from an organisation in a way that is accessible and machine-readable. You also have the right to ask an organisation to transfer your data to another organisation.
- **The right to object.** You have the right to object to the use of your personal data in some circumstances. You have an absolute right to object to an organisation using your data for direct marketing.
- **How your data is processed using automated decision making and profiling.** You have the right not to be subject to a decision that is based solely on automated processing if the decision affects your legal rights or other equally important matters; to understand the reasons behind decisions made about you by automated processing and the possible consequences of the decisions, and to object to profiling in certain situations, including for direct marketing purposes.

Please note that these rights are not absolute and only apply in certain circumstances. You should also be informed how long your data will be retained and who it might be shared with.

How does Goldsmiths treat my contribution to this study?

¹ <https://ico.org.uk/your-data-matters/>

Your participation in this research is very valuable and any personal data you provide will be treated in confidence using the best technical means available to us. The university's legal basis for processing your data² as part of our research findings is a "task carried out in the public interest". This means that our research is designed to improve the health, happiness and well-being of society and to help us better understand the world we live in. It is not going to be used for marketing or commercial purposes.

In addition to our legal basis under Article 6 (as described above), for **special categories data** as defined under Article 9 of GDPR, our condition for processing is that it is "necessary for archiving purposes in the public interest, scientific or historical research purposes or statistical purposes".³

If your data contributes to data from a group then your ability to remove data may be limited as the study progresses, when removal of your data may cause damage to the dataset.

You should also know that you may contact any of the following people if you are unhappy about the way your data or your participation in this study are being treated:

- Goldsmiths Data Protection Officer – dp@gold.ac.uk (concerning your rights to control personal data).
- Chair, Goldsmiths Research Ethics and Integrity Sub-Committee - via reisc@gold.ac.uk, REISC Secretary (for any other element of the study).
- You also have the right to lodge a complaint with the Information Commissioner's Office at <https://ico.org.uk/make-a-complaint/>

This information has been provided by the Research Ethics and Integrity Sub-Committee with advice from the Research Services and Governance and Legal Teams.
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² GDPR Article 6; the six lawful bases for processing data are explained here: <https://ico.org.uk/for-organisations/guide-to-the-general-data-protection-regulation-gdpr/lawful-basis-for-processing/>

³ Article 9 of the GDPR requires this type of data to be treated with great care because of the more significant risks to a person's fundamental rights and freedoms that mishandling might cause, eg, by putting them at risk of unlawful discrimination.