

## INFORMATION AND CONSENT FORM

### Airplane Pilots or Students in Aviation Flight Schools

#### Attention, Inhibition, and Cognitive Flexibility Abilities Based on the Experience and Age of Airplane Pilots

Student Researchers:

- Ali, Suhayna, Undergraduate Student, Department of Psychology, University of Montreal, suhayna.ali.gedi@umontreal.ca
- Aubertin, Léana, Undergraduate Student, Department of Psychology, University of Montreal, leana.aubertin@umontreal.ca
- Collin, Lola, Undergraduate Student, Department of Psychology, University of Montreal, lola.collin@umontreal.ca
- Popa, Sabina, Undergraduate Student, Department of Psychology, University of Montreal, andreea.sabina.popa@umontreal.ca

Research Supervisor:

- Louis Richer Ph.D., Lecturer, Department of Psychology, University of Montreal, louis.richer@umontreal.ca

You are invited to participate in a research project. Your participation is voluntary. Before accepting, please take the time to read this document outlining the conditions of participation in the project. Feel free to ask any questions you find necessary to the person presenting this document to you.

## A. INFORMATION FOR THE PARTICIPANTS

### 1. Project Objectives

This project aims to measure and compare certain executive and cognitive functions of airplane pilots, taking into account their age and experience. The results will be presented in a research report as well as in the form of a congress poster.

We aim to recruit approximately forty participants.

The project is authorized by the Research Ethics Committee in Education and Psychology at the University of Montreal.

### 2. Participation in Research

You are invited to participate in this project because you are an airplane pilot or a student in an aviation school aiming to obtain valid licenses.

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Your participation in the research project is entirely voluntary. If you consent, you will be asked to:

- 1) *Fill out an anonymous online questionnaire, meaning we will not ask you to identify yourself when completing this activity. This questionnaire will cover sociodemographic data and will be used to categorize participants into study groups for performance comparisons.*
- 2) *You will also be required to perform tasks to assess certain cognitive functions. The entire process takes approximately 15 minutes to complete.*

As part of the project, the student researcher will collect and keep information about you in a research file. This information will be necessary to meet the scientific objectives of the research.

### **3. Benefits**

There are no particular advantages to participating in this project. However, you will contribute to a better understanding of the cognitive and executive functioning of individuals in your group.

### **4. Risks and Disadvantages**

To our knowledge, there are no specific risks associated with your participation in this project. However, certain questions may prompt reflections or evoke memories of unpleasant experiences. You may refuse to answer a question at any time or even terminate the data collection. If needed, the student researcher or the research supervisor may recommend you to a resource person to help you overcome these disadvantages and provide you with a list of local resources.

### **5. Confidentiality and Anonymity**

The team of student researchers will take necessary measures to ensure that the personal information you provide remains confidential. These measures include:

Signed information and consent forms and the research file will remain confidential, from data collection to the presentation of research results. At no time will your identity, your employer's identity, or your status be disclosed.

- *The research file will contain this form, a questionnaire, and transcripts of your performance on certain tasks.*
- *It will be kept in a locked filing cabinet in a locked room at the University of Montreal. Computer files will be stored on the secure computer of the designated student researcher designated by the research team.*

#### **In cases of personalized and coded research data:**

Only student researchers will know the identity of the participants (through your email and your response to this form). Therefore, each participant will be assigned a code that links the information and consent forms to the research data. Only student researchers will retain the list

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associating participant codes with their names, which would allow for data withdrawal, if necessary.

**Retention of Research File:**

The data collected as part of this pedagogical activity will be destroyed after the end of the course, in May 2024.

**6. Compensation**

- No compensation is provided for your participation.

**7. Transmission of Results to Participants**

We will be pleased to communicate the research results obtained through your participation. For this purpose only, you can provide us with an email address so that we can send you a summary of the main research results. Your email address will be recorded in a document independent of the research data.

**8. Declaration of Conflict of Interest**

The student researchers personally know potential research participants. However, they acknowledge this situation and the ethical reflection it imposes regarding this dual role. Consequently, they undertake to respect the obligations associated with these various roles and to act in the best interests of the participants.

**9. Right to Withdraw**

Your participation in this project is entirely voluntary, and you may withdraw from the research at any time with a verbal notice without having to justify your decision, without consequences for you.

If you decide to withdraw from the research, please contact the student researcher at the email address provided below.

Upon request, all personal information and data already collected can be destroyed.

However, after the research report production process has commenced, it will be impossible to destroy the analyses and results concerning your data.

**B. PARTICIPANT DECLARATION**

- I acknowledge that the nature of my participation in the research has been clearly explained to me.
- I understand that I can take my time to reflect before consenting to participate in the research under the conditions stated in this form.
- I may ask questions to the student researcher and demand satisfactory answers.

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- I understand that by participating in this research project, I do not waive any of my rights nor relieve the student researcher of their responsibilities.

### C. CONSENT REQUEST

I have read and understood this information and consent form, and by signing, I consent to participate in the research activities outlined in the "Participation in Research" section.

- I consent to be contacted to receive a summary of the research results:

☐ Yes ☐ No

If yes, I wish to be contacted by the student researcher at the following email address:

\_\_\_\_\_

By completing this questionnaire, I agree to participate anonymously in the research project as outlined.

Participant's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_ First Name: \_\_\_\_\_

### D. COMMITMENT OF STUDENT RESEARCHERS

- We have explained to the participant the conditions of their participation in the research project.
- We have answered to the best of our knowledge any questions asked and ensured the participant's understanding.
- We commit to respecting what has been agreed upon in this information and consent form.
- We certify that we will provide the participant with a signed and dated copy of this form.

Student Researchers' Signatures:

Suhayna Ali \_\_\_\_\_

Léana Aubertin \_\_\_\_\_

Lola Collin \_\_\_\_\_

Sabina Popa \_\_\_\_\_

Date: March 2, 2024 \_\_\_\_\_

Names: Ali \_\_\_\_\_

First Names: Suhayna \_\_\_\_\_

Names: Aubertin \_\_\_\_\_

First Names: Léana \_\_\_\_\_

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Names: Collin First Names: Lola

Names: Popa First Names: Sabina

#### **E. RESOURCE PERSONS**

For any questions regarding the study or to withdraw from the research, please contact Lola Collin at the email address [lola.collin@umontreal.ca](mailto:lola.collin@umontreal.ca).

For any concerns about your rights or the responsibilities of student researchers regarding your participation in this project, you can contact the Research Ethics Committee in Education and Psychology by email at [cerp@umontreal.ca](mailto:cerp@umontreal.ca) or by phone at 514 343-6111 ext. 1896 or visit the website <https://crr.umontreal.ca/ethique-humaine/participants/>.

Any complaints regarding your participation in this research can be addressed to the ombudsman of the University of Montreal by calling 514 343-2100 or by emailing [ombudsman@umontreal.ca](mailto:ombudsman@umontreal.ca) (the ombudsman accepts collect calls).