

## Consent Form for Participation in “Provelt” User Study

---

**Study Title:** Provelt - Teaching Mathematical Induction via Interactive Learning

**Principal Investigators:** Evan, Sulaiman, Rishabh, Muhammadsultonbek

**Purpose of the Study:**

We are conducting this study to evaluate *Provelt*, a learning tool that teaches students how to use mathematical induction. Our goal is to see how helpful the tool is for people who have a basic background in math but are not yet experts in proof techniques.

**Summary:**

In this session, you will use our website, speak out your thoughts while using it, and participate in two short interviews. This will help us understand what works well and what could be improved in the tool. Your feedback will contribute to making better learning experiences for future students.

**Procedures:**

If you agree to participate, you will:

- Use the Provelt tool (which includes a tutorial, practice tasks, and one final exercise).
- Speak your thoughts out loud as you interact with the tool.
- Answer some questions before and after the task.
- Be audio- or video-recorded if you give us permission (not required).

The session will take about 45 minutes in total.

**Participant Requirements:**

You should:

- Be comfortable with basic high school mathematics.
- Not be trained in university-level proof techniques. This study is made for people who are still learning how to write mathematical proofs.

## Consent Form for Participation in “Provelt” User Study

---

### Risks:

There are no known risks for participating. You might find some tasks challenging, but you can always skip or stop at any time.

### Benefits:

- You may learn a useful proof technique (mathematical induction).
- Your feedback will help us design better tools for learners like you.

### Confidentiality:

By signing this form, you indicate that you understand and agree that the data and information gathered during this study may be used by the research team and may be shared with instructors and other classmates who take the "Intelligent Systems and Human Learning" lecture offered at Saarland University. When we share our data with other classmates and instructors, your name, contact information and other direct personal identifiers will never be mentioned in any such sharings.

The researchers will take the following steps to maintain the confidentiality of the data collected during the study: (1) All study participants will be assigned a number or anonymous identifier; names will not be recorded, other than on the consent form. (2) The researchers will save the data files and all recordings that will be made by number, not by name. (3) Only members of the research team will have access to the audio/video recordings. (4) Participant's data and consent form will be kept separate. (5) Consent forms will be stored in a locked location at Saarland University, and will not be disclosed to anyone outside of the class.

### Permission to Record:

Please check one:

- ☐ Yes, I agree to be recorded (audio and/or video)
- ☐ No, I do not want to be recorded

### Rights

Your participation is voluntary. You may discontinue participation at any point. Refusal to participate or withdrawal of your consent or discontinued participation in the study will not result in any penalty or loss of benefits or rights to which you might otherwise be entitled. The Principal Investigator may at Consent Form for Participation in Research his/her discretion remove your data from the study for any of a number of reasons. In such an event, you will not suffer any penalty or loss of benefits or rights which you might otherwise be entitled.

## Consent Form for Participation in “Provelt” User Study

---

### **Rights to Ask Questions and Contact Information:**

If you have any questions about this study, you should feel free to ask them now. If you have questions later, desire additional information, or wish to withdraw your participation please contact the class instructor by email: [nagashima@cs.uni-saarland.de](mailto:nagashima@cs.uni-saarland.de) (Tomohiro Nagashima)

### **Voluntary Consent:**

By signing below, you agree that the above information has been explained to you and all your questions have been answered. You understand that you may ask questions about any aspect of this research study during the course of the study and in the future. By signing this form, you agree that you will participate in this research study. A copy of the consent form will be given to you, if requested.

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

Signature: \_\_\_\_\_

Date: \_\_\_\_\_