

# EXPLORING THE USABILITY BARRIERS IN LIQUID TYPES

Recruiting Documents

2023/2024

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### RESEARCH GUIDE

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## Recruiting documents

### Recruiting email

**Subject:** Study Usability Barriers in Liquid Types - Invitation

**Body:**

Dear [researcher name],

We are currently conducting a study to understand how users interact with LiquidHaskell, the most mature implementation of Liquid Types, and what are the barriers people find in using them.

We are currently recruiting participants who are either:

- currently using LiquidHaskell in one or more non-confidential projects.
- have used LiquidHaskell in the past, but do not use it anymore.
- are familiar with Haskell but not with LiquidHaskell.

The sessions take from 40 minutes to 1 or 2 hours, depending on the session. There is a 10\$ Amazon Gift Card for the studies under 1 hour, and a 20\$ Amazon Gift Card for the 2-hour study as compensation for the time taken. We would very much appreciate if you could participate or share this study with any interested participants.

You can [sign-up using this form](#), or share the study using the flyer in the attachment.

The study is being conducted by a joint team from Carnegie Mellon University and University of Lisbon. If you have any questions or concerns, you can contact the study's principal investigator Catarina Gamboa ([cgamboa@andrew.cmu.edu](mailto:cgamboa@andrew.cmu.edu)).

Best regards,  
Catarina Gamboa

### Recruiting LiquidHaskell Slack Message

**Message:**

Hello everyone, we are conducting **a study** to understand how users interact with LiquidHaskell and what are the barriers people find in using Liquid Types. We are currently recruiting participants who are either:

- currently using LiquidHaskell in one or more non-confidential projects.
- have used LiquidHaskell in the past, but do not use it anymore.
- are familiar with Haskell but not with LiquidHaskell.



[Sign-up](#) if you can and share it with others! There is an Amazon Gift Card compensation of 10\$ for a 1-hour study and 20\$ for a 2-hour study session.

## Recruiting in Social Media

### LinkedIn:

📢 Participate in our study “Exploring the Usability Barriers in Liquid Types”

Do you work with LiquidHaskell, have worked in the past, or know Haskell and want to learn LiquidHaskell? Then this study is for you! [Sign-up](#) in this link and share it!

This study is being conducted by a joint team from @S3DatCMU and @lasige

### Twitter:

📢 Participate in our study “Exploring the Usability Barriers in Liquid Types”

Do you work with LiquidHaskell, have worked in the past, or know Haskell and want to learn LiquidHaskell? Then this study is for you! [Sign-up](#) in this link and share it!

Study by @S3DatCMU and @lasige

## Recruiting flyer



**USER STUDY**  
*"Exploring the usability barriers in  
Liquid Types"*

**REGISTER IF**

- ☒ You are **currently using** LiquidHaskell in a project, or
- ☒ You have **tried** LiquidHaskell but **did not continue** using it, or
- ☒ You don't know what LiquidHaskell is but you are **familiar with Haskell**.

and get an Amazon Gift Card of  
10\$ for a 1-hour, or 20\$ for 2-hour



This project aims to understand how users interact with LiquidHaskell, the most mature implementation of Liquid Types, and what are the barriers people find in using them. The research study is being conducted at Carnegie Mellon University and University of Lisbon.

FCT Financiamento Científico e Tecnológico Carnegie Mellon Portugal  U LISBOA  LASIGE

## Sign-up Form and Confirmation

### Sign-up Form

The sign-up form is a Google Form that can be found is attached with the name "Sign-up form".

### Confirmation Email

For available slot

Subject: Study Confirmation - Exploring the Usability Barriers in Liquid Types

Body:

Hello [NAME],

Thank you for signing up for our study on "Exploring the Usability Barriers in Liquid Types"!

Your response shows X availability options, and in one of them our team is available.

Therefore, we will schedule the study session for:

WEEK-DAY, DAY MONTH, YEAR, at TIME (TIMEZONE)

If you are no longer available at the time, please let us know.

Best regards,

Catarina Gamboa

For unavailable slot

*\* new link for each participant*

Subject: Study Confirmation + Time - Exploring the Usability Barriers in Liquid Types

Body:

Hello [NAME],

Thank you for signing up for our study on “Exploring the Usability Barriers in Liquid Types”!

Your response shows X availability options. However, those times are already occupied.

Please fill the following schedule with your availability (<https://www.when2meet.com/>\*) and we will send you an email confirming the session for one of the spots.

Thank you again for participating.

Best regards,

Catarina Gamboa