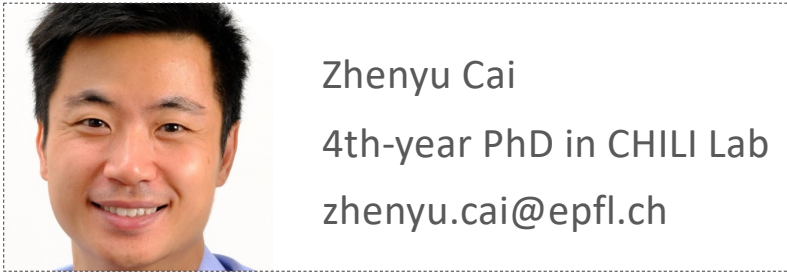


Project Introduction



My PhD project is to design and evaluate **dashboards** to support teaching and learning in **exercise sessions**

<https://youtu.be/6Eq5GUxwv2c?feature=shared>

Teacher Dashboard on Noto

The screenshot shows a JupyterLab environment. On the left is a sidebar with a file browser and a table of contents for 'Assignment 6: Fast Fourier Transform'. The main area is split into two panes. The top pane is a code editor showing Python code for an FFT assignment. The bottom pane is a notebook view showing the same code with a plot of the FFT amplitude. To the right of the notebook is a dashboard with two charts: 'Code cell executions across users' (a bar chart) and 'Time spent on each cell across users' (a scatter plot). A blue arrow points from the notebook view to the dashboard. A red circle with the number '1' is placed over the code editor, and a red circle with the number '2' is placed over the dashboard.

Time for correction?

Common mistakes?

Data Collection (for TAs)

Notebook Cell

Cell (d387e00f)

Code Output

All Success Error

Type text to filter...

User 0176f6c9...

```
import numpy as np
import matplotlib.pyplot as plt

# Number of points (1045)
n_points = 1045

# Frequency range: using np.linspace to generate 1045
# points between 35 kHz and 50 kHz
f = np.array([-0,131148
-0,131163
-0,131220
-0,131225
-0,130819
-0,130884
-0,131170
-0,130693
-0.131078
```

Cell In[1], line 47
-0,098852
^
SyntaxError: leading zeros in decimal integer literals are

Executed at 17:22, 16/10/24

- No effect on your grade (Prof. Zdeborová is not part of the research project)
- No identifiable information is available to TAs (anonymity first)
- Your participation will help us design more effective dashboards for teachers
- If you have concerns, please come talk to me during the break or via email

Data Collection (for research)

- **Consent Form**
 - Please [sign](#) the form on paper
 - [Digital version here](#)
- **Information Sheet**
 - Check more details about the project
 - [Digital version here](#)

Thank you very much!

HUMAN RESEARCH ETHICS COMMITTEE

Request for opinion on ethical acceptability of projects undertaken by researchers at EPFL

HREC DECISION

HREC No: HREC000489/05.03.2024
2nd Amendment to the Original Protocol HREC
006-2023

Name applicant Zhenyu Cai, Doctoral Assistant, and Prof. Pierre Dillenbourg, Head of the Computer-Interaction Lab for Learning & Instruction (CHIL), IC

Title project Interactive Dashboards for Jupyter Notebooks

Outcome*:	<input type="checkbox"/> Approval
	<input checked="" type="checkbox"/> Approval with comments
	<input type="checkbox"/> Provisional approval
	<input type="checkbox"/> Approval declined
*An explanation of the HREC outcome can be found at the end of the Decision Form.	

The implementation of the HREC approved protocol is the full responsibility of the PI.

Andreas Mortensen

2024-04-23 19:09

Andreas Mortensen

Prof. Andreas Mortensen

President Human Research Ethics Committee EPFL