

### Project 3 [18 FP “Fluency Points”]:

*In a two-minute video, present a real-life free & damped vibration phenomenon via an experiment and theoretical analysis*

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#### Description:

In a video that lasts no longer than two minutes:

- Identify a 1-DOF free & damped vibration phenomenon in or around your house
- Explain the phenomenon and the vibration behavior by:
  - Conducting a simple experiment to capture the motion of the vibrating object, and plotting the vibration in a displacement vs time plot; and:
  - Performing a theoretical analysis and visualizing the solution in a displacement vs time plot
- Compare the experimental and analytical results, and discuss sources of error, validity of your assumptions, etc.
- Reflect on your journey of working on this project

#### Deliverable:

Present your work in a video uploaded to YouTube, and submit your YouTube URL to Gradescope.

#### Rules and Format:

- Your video must be in landscape orientation (this is YouTube, not Tiktok...)
- Your video must be less than 120 seconds in duration
- You must show your face for the majority of the video
- You must voice narrate your presentation; simply showing written notes without narration is a violation of this rule
- Your video must be uploaded to YouTube, with the upload date coinciding with (or no later than) your URL submission date on Gradescope
- This is an individual project
- Violation of *any* of these rules will invalidate your submission altogether – read this document carefully (srsly)!

#### Tips:

- Make it fun yet educational
- Shoot plenty of raw footage, then edit using a free software
- Speak close to the mic
- Avoid using copyrighted material (music, images and footage) to minimize the risk of infringement
- Make your YouTube video “unlisted”

- Test YouTube link before submitting on Gradescope
- See below for how to upload videos to YouTube and how to submit URL in Gradescope

Submission:

Submit your Youtube URL on Gradescope only. Submissions by email or other means will be disregarded.

Due ~~March 4~~ March 8, 2021 (Monday) 11:59 pm.

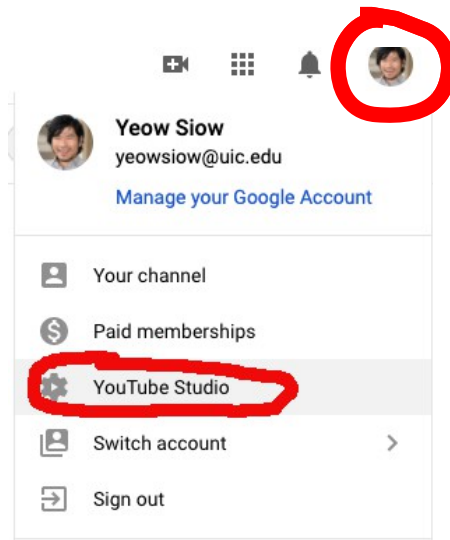
Late submissions will be subject to the “half-life” reduction policy according to the syllabus.

Grading Rubric:

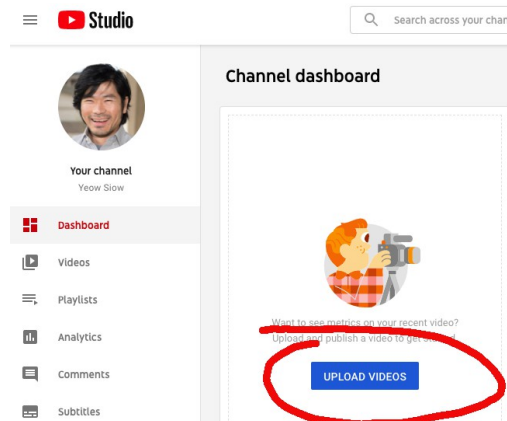
	Fluency			Scaling	Max Possible
	2	1	0		
<b>Experimental Setup &amp; Realism</b>	Example accurately depicts the vibration type; detailed information on how the observed data is collected and plotted	Some obvious details missing	Farfetched, or missing most details	3	6
<b>Theoretical Rigor</b>	Assumptions are reasonable and not oversimplified; physics and math are accurate and convincing; plots contain relevant data; comparison with experimental data is clearly made	Some obvious details missing	Incorrect physics, or missing most details	3	6
<b>Reflection</b>	Thoughtful and authentic; acknowledges limitations/inaccuracy and suggests future (self-)improvements	Insubstantial or vague	Missing altogether	1	2
<b>Production Quality</b>	Stunning visuals, clear audio, smooth & creative editing; educational & fun; a joy to watch	Some issues with visuals, audio, and/or production relevance	Can't make out most visuals, barely audible; incongruent editing; or production unrelated to project	2	4
<b>Total</b>					<b>18</b>

# How to Upload Your Video to YouTube

1. Sign in to your YouTube account (using your UIC credentials).
2. Go to “YouTube Studio”:



3. Upload Videos:



4. Select your video file, enter your video title and description, and (optional) upload a thumbnail photo
5. Under “Visibility, select “**Unlisted**” as publishing type:

## Visibility

Choose when to publish and who can see your video

**Save or publish**  
Make your video public, unlisted, or private

**Private**  
Only you and people you choose can watch your video

**Unlisted**  
Anyone with the video link can watch your video

**Public**  
Everyone can watch your video

Set as instant Premiere ?

## How to Upload Your YouTube URL to Gradescope

1. Log in to Gradescope.
2. Select the project:

NAME	STATUS
Project [redacted]	<span style="color: yellow;">●</span> No Submission

3. Follow the instructions there. Nice and easy!

**Project** [redacted]

**Q1 Youtube URL**  
[redacted]

Copy and paste your YouTube video URL here. Be sure to test the link first before submitting!

Save Answer

Save All Answers Submit & View Submission >