

## **HOW TO USE A SMARTPHONE AS A DOCUMENT CAMERA**

(This should be especially helpful to those who teach from home via Zoom.)

Submitted by Igor Fulman

Below are detailed instructions. I have also filmed a video: <https://www.youtube.com/watch?v=jFuaJGdcSYw>

- 1) Make sure that you have a stand (such as a desk lamp) that allows to fix your phone horizontally above your desk, about 6 to 8 inches above the surface, with the screen facing up and the back camera facing down.
- 2) Log into Zoom from your desk computer or laptop, and open a Zoom meeting.
- 3) Join this meeting from your phone, using a different name, for example "Igor camera". Make sure that the settings on the phone are set as follows:
  - a) The phone should be set to "Landscape mode" as opposite to "Portrait" or "Auto Rotate"; and
  - b) The phone should join the Zoom meeting with video, without audio or with audio muted, and using the back camera. (You need to switch it to the back camera for every session, since by default it is using the front camera.)
- 4) Fix your phone on the stand with its screen facing up, its back camera facing down, and place a piece of paper on the desk under it.
- 5) Go back to the Zoom meeting on your computer or laptop, find the video stream from your phone by the name you used for joining ("Igor camera"), and choose "Spotlight Video".
- 6) Try to write something on the paper and make sure it is clearly seen on the screen of the Zoom session on your computer. You may need to adjust position of the piece of paper under the phone, and magnification of the phone. Also, it is better to use a sharpie, not a regular pen.
- 7) If you are using a graphing calculator, you need to increase magnification on the phone. When you finish using the calculator and return to your writing - decrease magnification back. It is done as usual, by using two fingers on the screen of the phone.