

ORIE3310 Lab Instructions

January 2025

1 Download the lab

1. Download the lab in Canvas.
2. Upload the lab to your Google Drive.
3. Right-click the lab, then hover over “Open with” and click “Google Colaboratory.”
4. Open a new tab and continue with the next steps.

2 Sign up for Gurobi

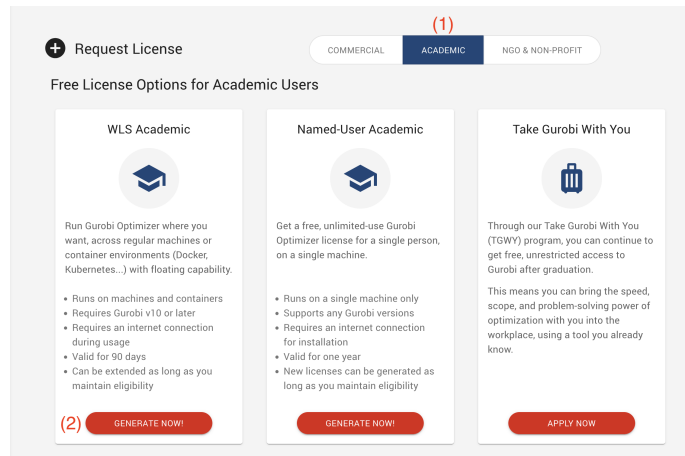
Skip this step if you already have a Gurobi account with your Cornell email.

1. Go to Gurobi’s website.
2. Follow the sign-in instructions **with your Cornell email**.

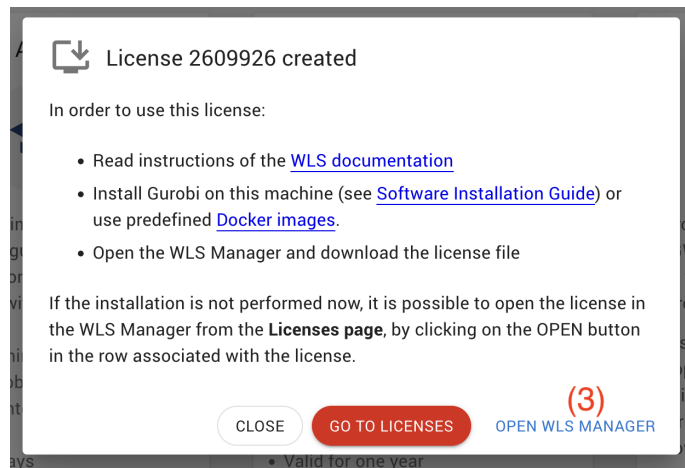
3 Request a WLS license

NOTE: You must be connected to Eduroam to complete this step.

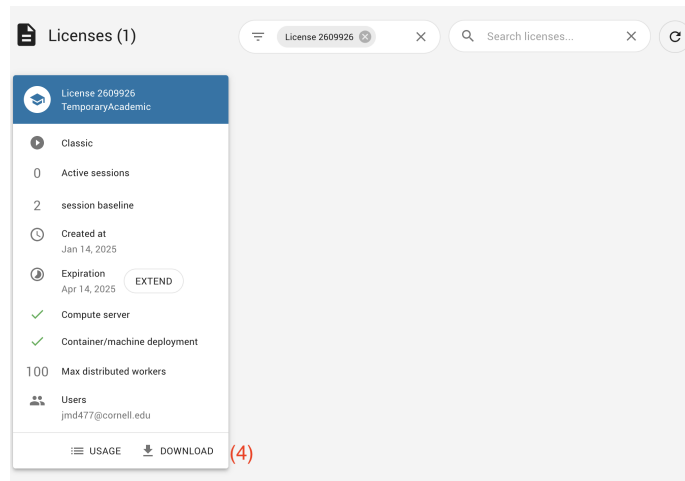
1. Go to the Gurobi user portal.
2. Make sure that ACADEMIC is selected (1).
3. Under WLS Academic, click “GENERATE NOW!” (2).



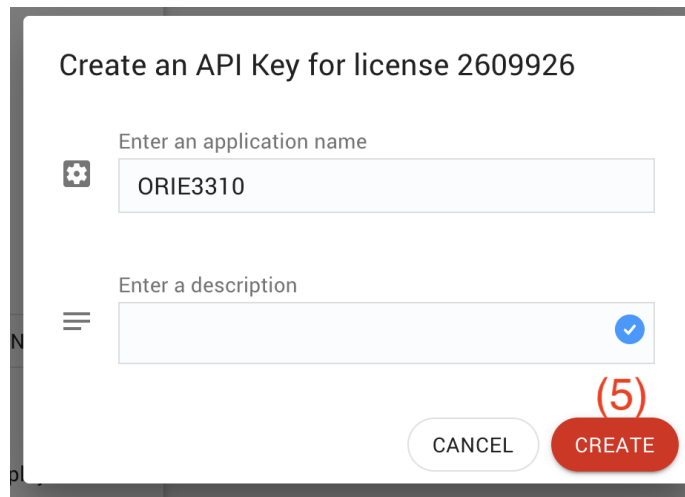
4. Agree to the terms and continue until it says the license was created.
5. Click “OPEN WLS MANAGER” (3).



6. In the WLS manager, click the DOWNLOAD button under your license.



7. Enter a name for your key and select CREATE.



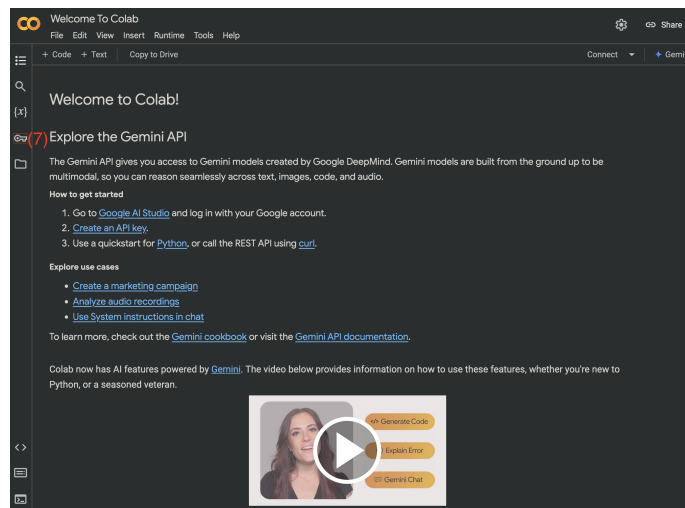
8. In the following popup, select DOWNLOAD. This will download a “gurobi.lic” file to your computer. **Be sure to keep the file somewhere that you can find it again.**

For security reasons, this is the only time you can download this new license file which contains your private API access ID and secret. However, you can create new API access keys at any time.

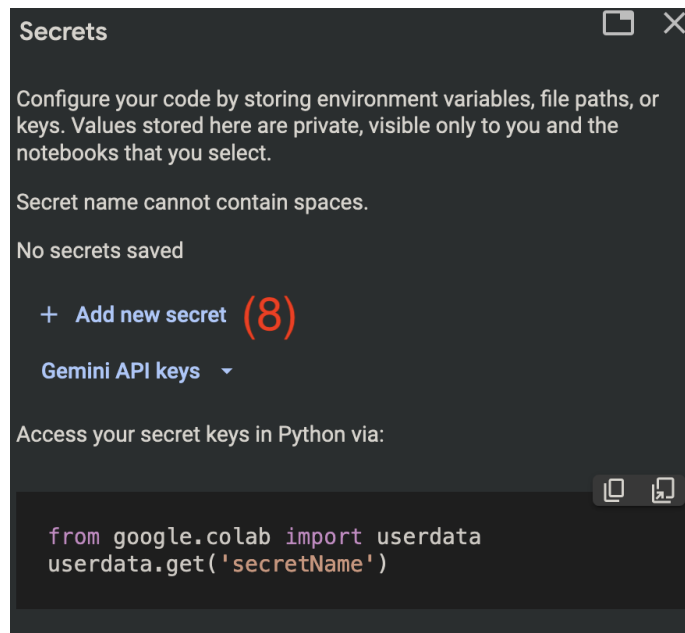
(6)  DOWNLOAD

4 Add your license to secrets

1. On the left bar of Colab click the key icon (7).



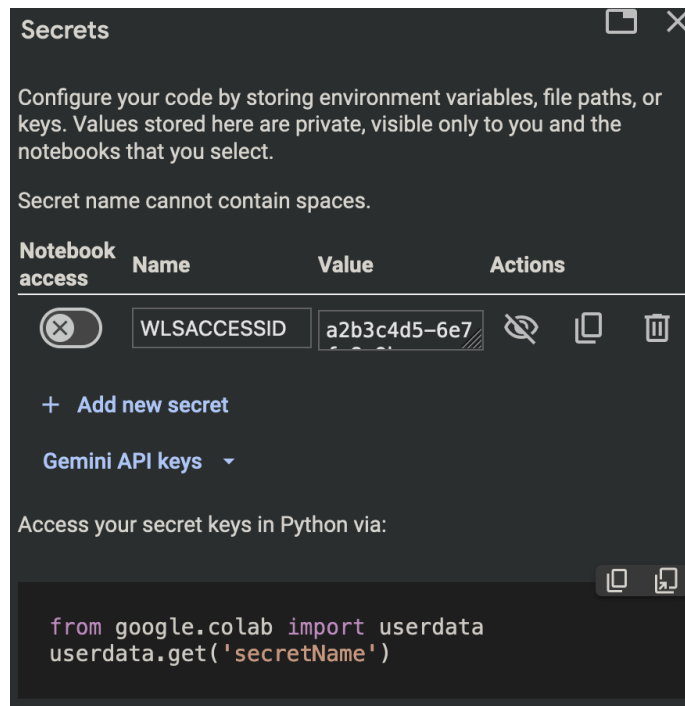
2. Click "+ Add new secret" (8).



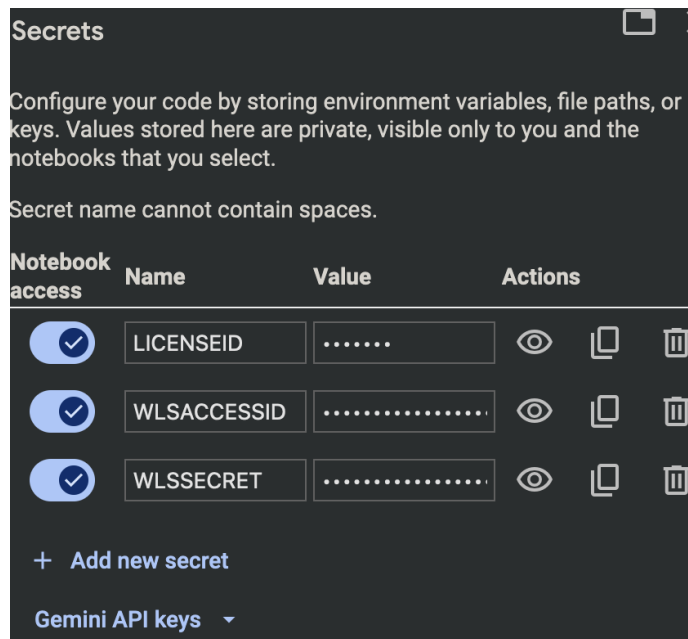
3. Open your 'gurobi.lic' file on your computer with a text editor. You should see something of the form:

```
# Gurobi WLS license file
# Your credentials are private and ...
# Visit link for more information.
WLSACCESSID=a2b3c4d5-6e7f-8g9h-i0j1-2k3l4m5n6o7p8
WLSSECRET=f1e2d3c4-5b6a-7890-1234-56789abcdef
LICENSEID=7654321
```

4. In the secrets prompt, put 'WLSACCESSID' in the "Name" field and your key (the thing after the equal sign, so 'a2b3c4d5-6e7f-8g9h-i0j1-2k3l4m5n6o7p8' in the example above) in the "Value" field.



5. Repeat steps 2-4 of this part with the 'WLSSECRET' and 'LICENSEID' fields.
6. Check all the ticks for "Notebook access." **You will need to reopen the key menu and recheck these ticks for EVERY lab in this course.**



5 You can now complete the lab!

6 Uploading to Gradescope

To submit your lab, convert the lab to a PDF by navigating “File” → “Print” and then selecting “Save to PDF” (the option may have a different name depending on your operating system).

Upload the saved PDF to the Gradescope submission.