**Gurobi and Python Getting Started**

**Python** <https://www.python.org/downloads/>. Download the installer .EXE file and run it.

The Python app opens its own command window. To start Python from a command shell:

- The path to the python must be in the “environment paths”. Jonathan fixed this for me.   
- Open the Command Prompt app (CMD will find it in the Windows search bar)

- Type “python".  The prompt changes to ">>>"

- Not working: “pip” for installing modules in Command Prompt:

pip install csv math time numpy pandas

These are the modules used in Silas’s code. Some were already installed. We installed the rest.

- Can call pip in python:

>>>python -m pip install …

Although “pip” is working in python, none of the modules are found by this command.

Running

In Command Prompt: Type, e.g., "python global\_seir.py" [paths?]

In app: ??  
To quit, type "exit()".

Text editor

You can use notepad, but most of our students are using

Visual studio code <https://code.visualstudio.com/download>.

**Gurobi python**

Installing Gurobi involves (1) getting an individual academic license, (2) installing the Gurobi software, and (3) installing the Gurobi Python module.

1. Start at <https://www.gurobi.com/academia/academic-program-and-licenses/> which explains how to download the Gurobi optimizer, get a free academic license, and get and install your license key.
2. You can get Gurobi from <https://gurobi.com/downloads/> -- you need the Gurobi Optimizer.  You will need to register (free) to do this.
3. Once Gurobi is installed, you can install the Python module with "pip install gurobipy". Since pip isn’t working in Command Prompt, use " python -m pip install gurobipy"
4. The python program should start with

import gurobipy as gp

from gurobipy import GRB

and any other modules needed.

There’s also a file setup.py (in C:\gurobi951\win64)

# This script installs the gurobi module in your local environment, allowing

# you to say 'import gurobipy' from the Python shell.

# To install the Gurobi libraries, type 'python setup.py install'.