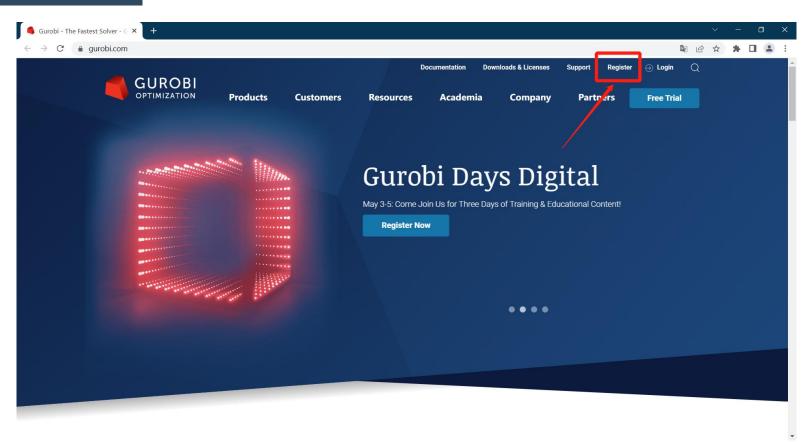
# Gurobi \\ 1\]



1.打开gurobi官网(https://www.gurobi.com/),点击上方注册按钮。

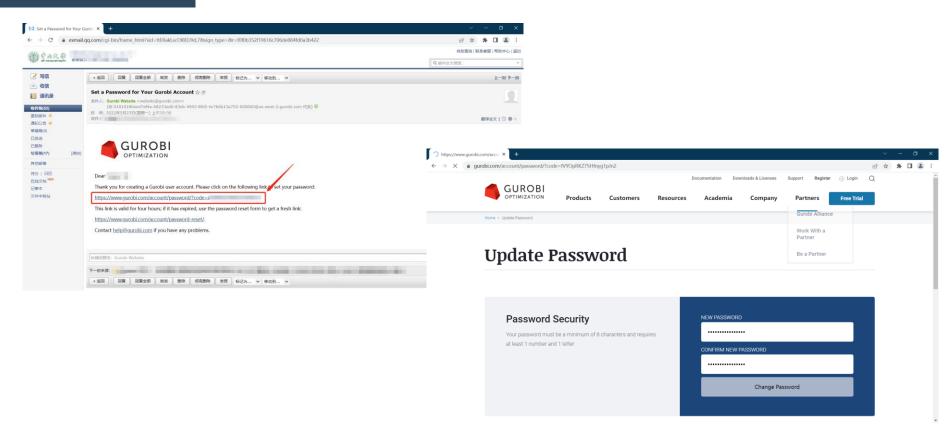


# 2.填写注册信息,注意类别选择Academic!

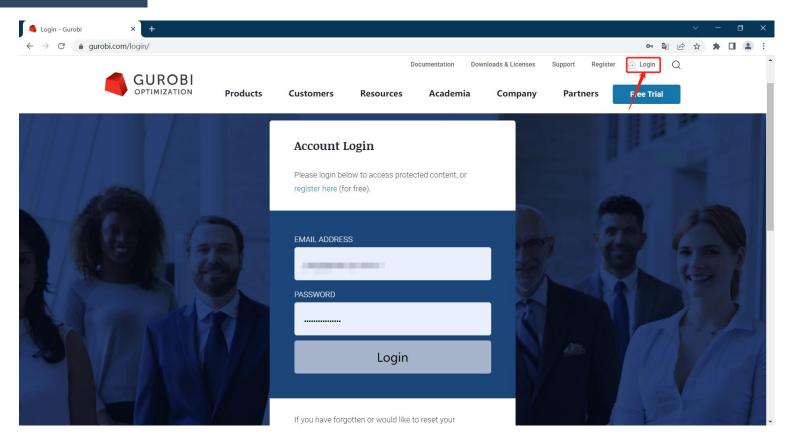
Start your registration by designating your account type as either Commercial or Academic:

Are you an Academic or Commercial user?	*	Academic
First Name:	*	San
Last Name:	*	Zhang
Company Email Address:	*	zhangsan@mail2.sysu.edu.cn
University:	*	Sun Yat-sen University
Industry:		Select v
Academic Position:		Select v
Phone Number:	*	123456789
Country:	*	China
Check this box if you als commercial businesses:		onsult with
*Required: The informat	ion	you provide to us will be used in accordance with the terms of our Privacy Policy.
		Access Now

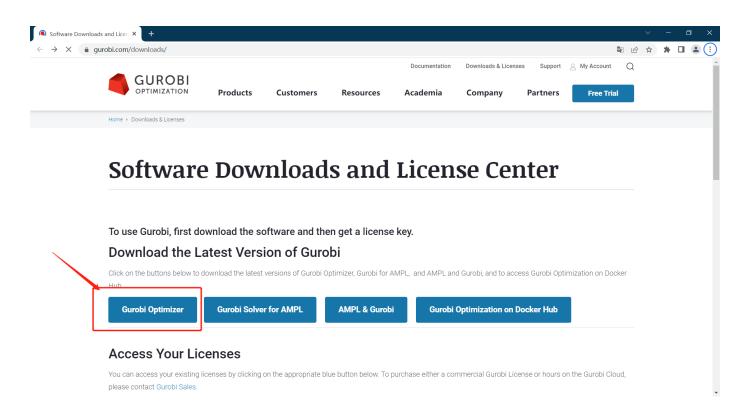
### 3.接收邮件,点击链接设置密码激活账号。



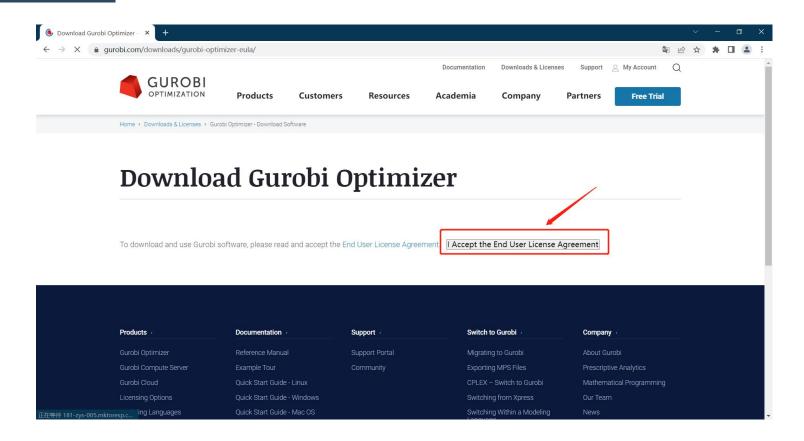
# 4.返回网站首页登陆账号。



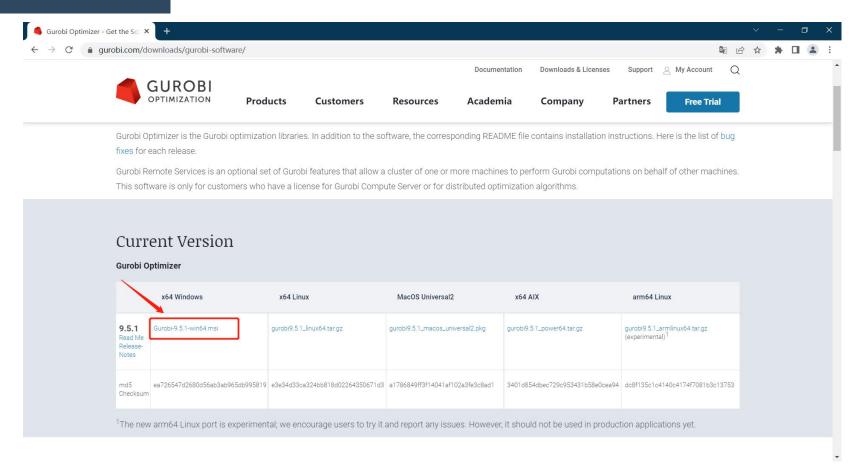
5.访问下载页面(<u>https://www.gurobi.com/downloads/</u>),点击优化器下载。



## 6.点击接受协议进入下一级下载链接。

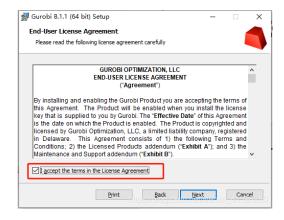


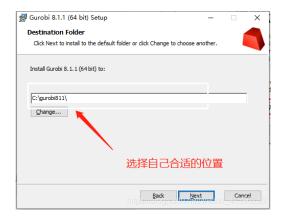
### 7. 找到适合你电脑的版本,点击下载。



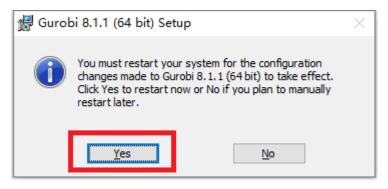
## 8. 安装Gurobi,最后点击Yes重启电脑。



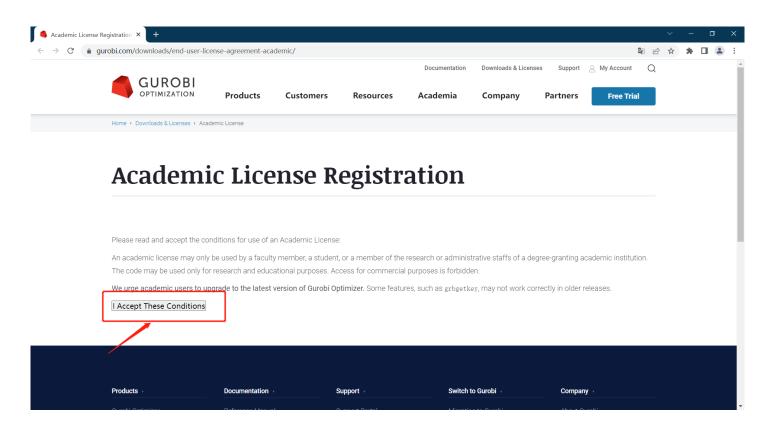




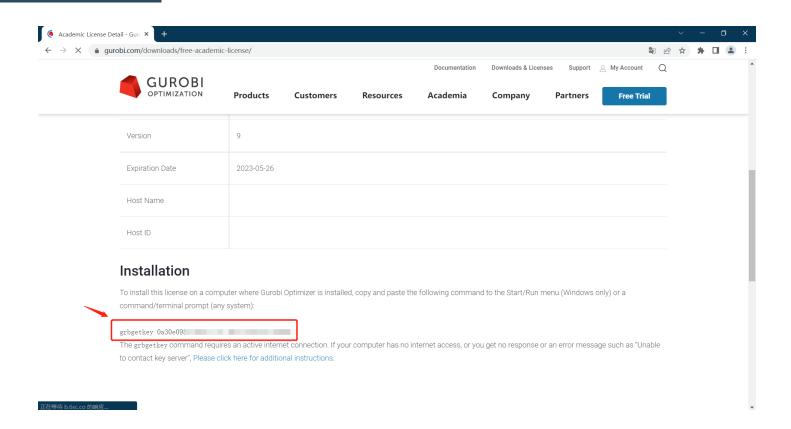




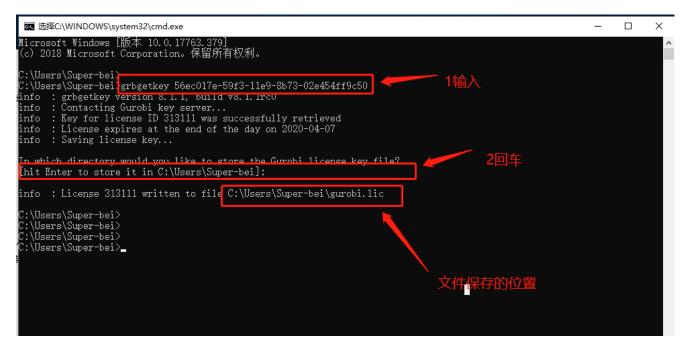
9. 在校园网环境下访问学术证书申请网页,并接受条款 (https://www.gurobi.com/downloads/end-user-license-agreement-academic/)



# 10.得到证书,复制grbgetkey.....指令。



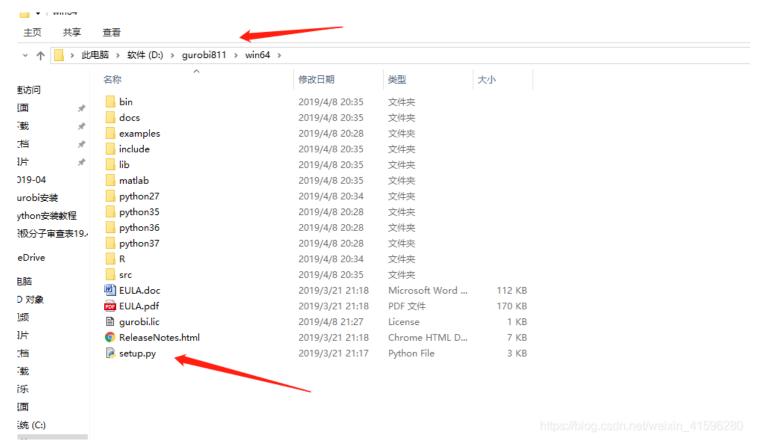
11.在cmd下黏贴刚刚的指令。如果提示"Unable to contact key server",安装失败;那你就得重新来激活,跟网速有一定关系,如果顺利就如下图所示了,记住激活后千万别急着关闭窗口,记一下文件最后的保存位置。



12.为了让Gurobi查找到License的位置,必须设置一个环境变量GRB\_LICENSE\_FILE。变量值就是刚刚证书保存的位置。

编辑系统变量		×
变量名( <u>N</u> ):	GRB_LICENSE_FILE	
变量值( <u>V</u> ):	C:\Users\Super-bei\gurobi.lic	
浏览目录( <u>D</u> )	浏览文件(E)	确定 取消
Mada (g)	//JSBX11-0	WOAL -WIS

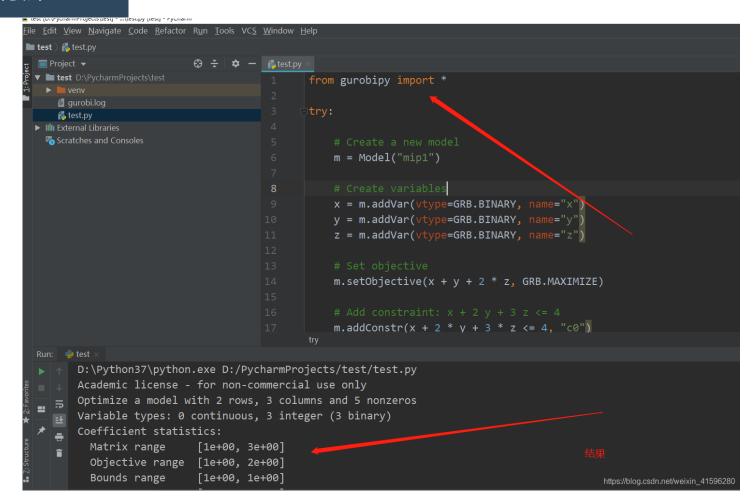
# 13.在cmd中切换路径到gurobi安装路径下,使用python setup.py install 运行安装程序



# 13.在cmd中切换路径到gurobi安装路径下,使用python setup.py install 运行安装程序。大功告成!

```
选择C:\Windows\System32\cmd.exe
                                                                                                                     Х
                                                                                                               Microsoft Windows [版本 10.0.17763.379]
┪(c) 2018 Microsoft Corporation。保留所有权利。
D:\gurobi811\win64\python setup.py install
running install
running build
running build py
creating build
creating build\lib
creating build\lib\gurobipy
copying python37\lib\gurobipy\ init .py -> build\lib\gurobipy
copying python37\lib\gurobipy\gurobipy.pyd -> build\lib\gurobipy
running install lib
creating D:\Python37\Lib\site-packages\gurobipy
copying build\lib\gurobipy\gurobipy.pyd -> D:\Python37\Lib\site-packages\gurobipy
copying build\lib\gurobipy\_init_.py -> D:\Python37\Lib\site-packages\gurobipy
byte-compiling D:\Python37\Lib\site-packages\gurobipy\_init_.py to _init_.cpython-37.pyc
running install_egg_info
Writing D:\Python37\Lib\site-packages\gurobipy-8. 1. 1-py3. 7. egg-info
removing D:\gurobi811\win64\build
D:\gurobi811\win64>
```

### 14.打开编辑器,畅快使用Gurobi吧!



# 范例演示

#### 线性规划

#### max x + y + 2z

```
s. t. 2x + 3y + 4z \le 4 x + y \ge 1 x, y, z are all real numbers
   from qurobipy import *
    #创建模型
   model = Model("test")
    #新建决策变量 INTEGER CONTINUOUS
   x = model.addVar(vtype = GRB.CONTINUOUS, name = "x")
   y = model.addVar(vtype = GRB.CONTINUOUS, name = "y")
    z = model.addVar(vtype = GRB.CONTINUOUS, name = "z")
   #设置优化目标,最大化m
   model.setObjective(x + y + \frac{2}{3} * z, GRB.MAXIMIZE)
   #添加约束: 2 x + 3 y + 4 z <= 4
10
   model.addConstr(2 * x + 3 * y + 4 * z \le 4, "c0")
    #添加约束: x + v >= 1
12
   model.addConstr(x + y >= 1, "c1")
    #进行求解
14
15 model.optimize()
   #输出决策变量在最优解下的值
17 pfor v in model.getVars():
18
       print('%s %g' % (v.varName, v.x))
   #输出最优解
20 print('Obj: %g' % model.objVal)
```

```
Optimal objective 2.0000000000e+00
x 1
y 0
z 0.5
Obj: 2
```

# 谢谢!!!

