

MIE Master Class Summer 2021

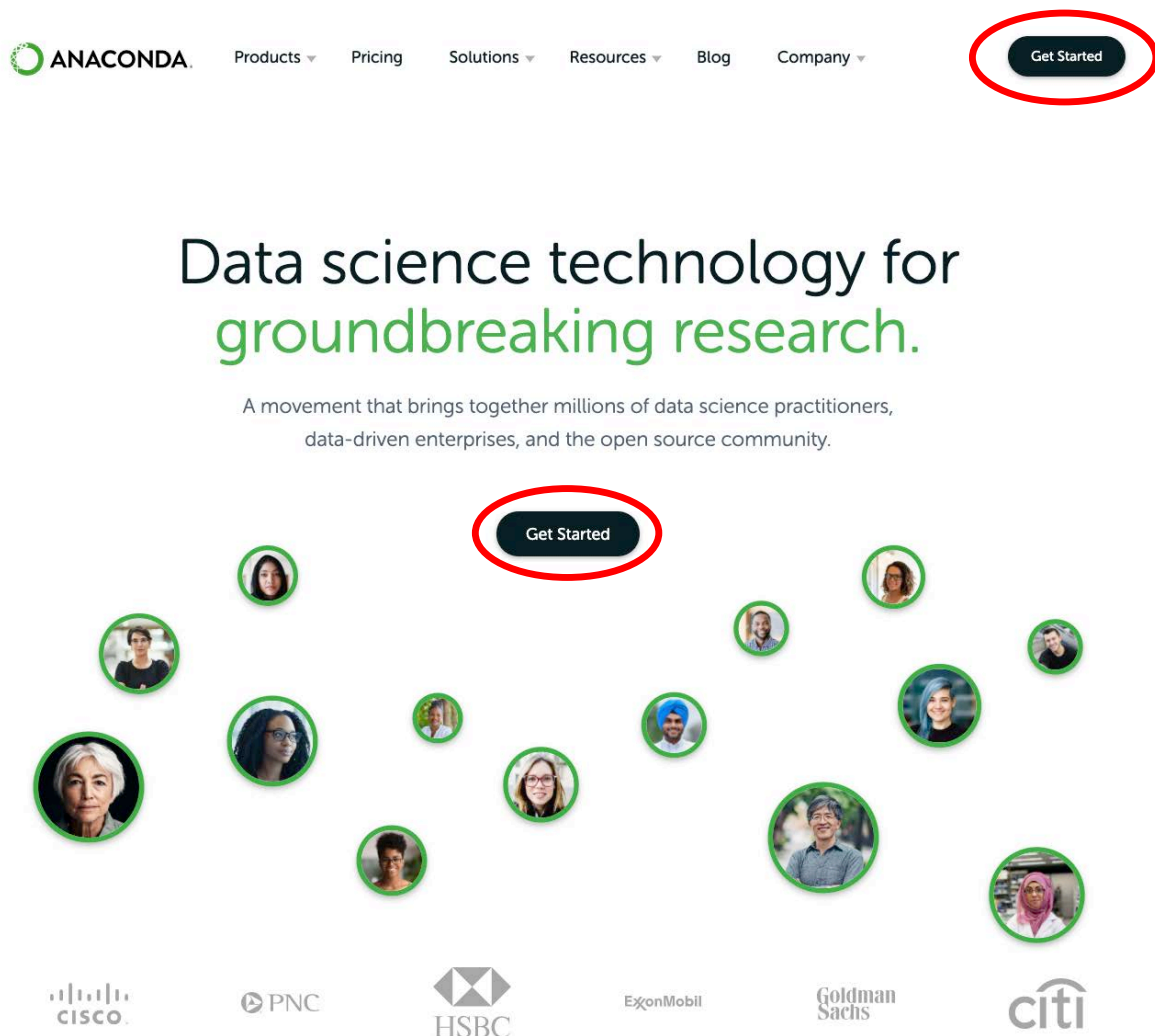
Python & Gurobi Installation Guide

By Ruilin Ouyang and Chun-An Chou

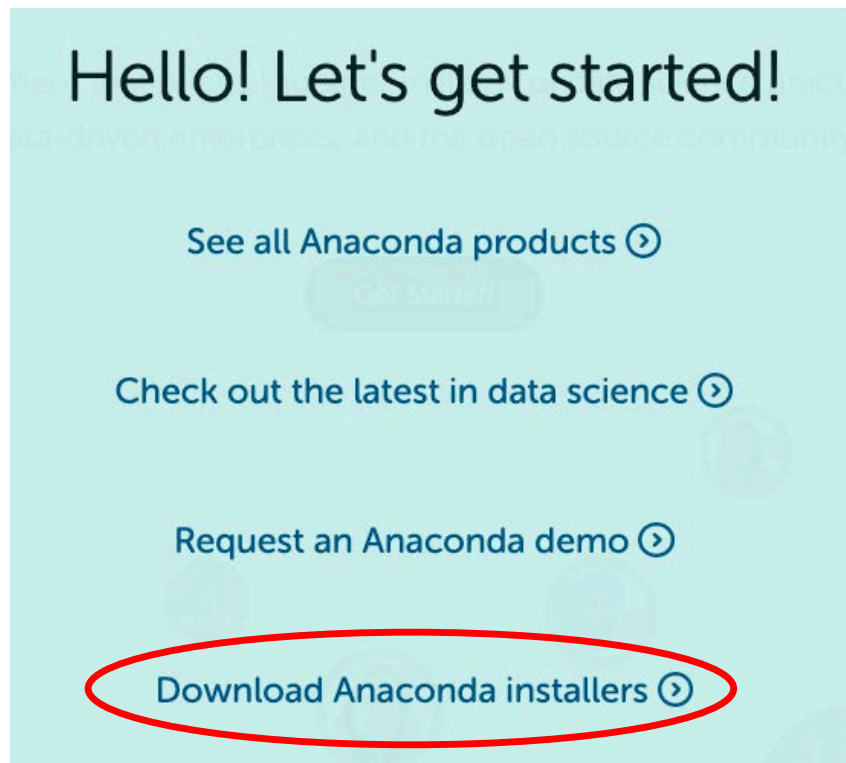
1. Python Installation

(1) Go to <https://www.anaconda.com/>

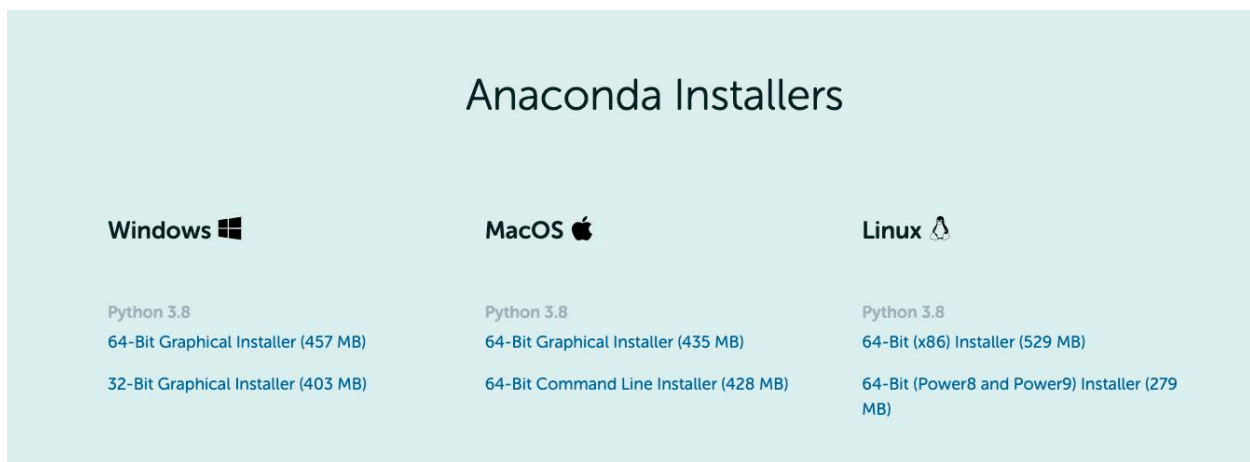
(2) Click “Get Started” at the upper-right corner or at the middle of the page



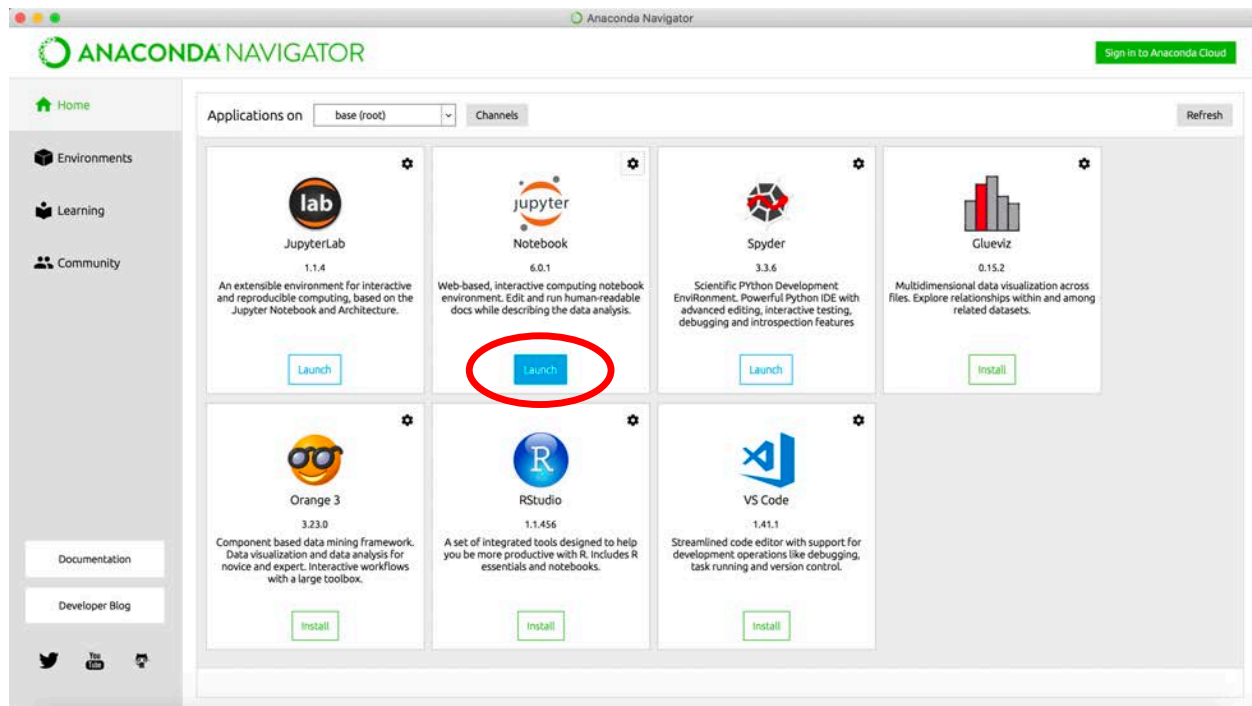
(3) Click “Download Anaconda Installers”



(3) Choose the proper version based on your PC type (Windows or Mac)



(5) Install the download file on your PC and open Anaconda, the interface will be like the screen shot below:



(6) Launch the Jupyter Notebook, a webpage will pop-out as the screen shot below

(Note: Recommend using Chrome as your default web browser)

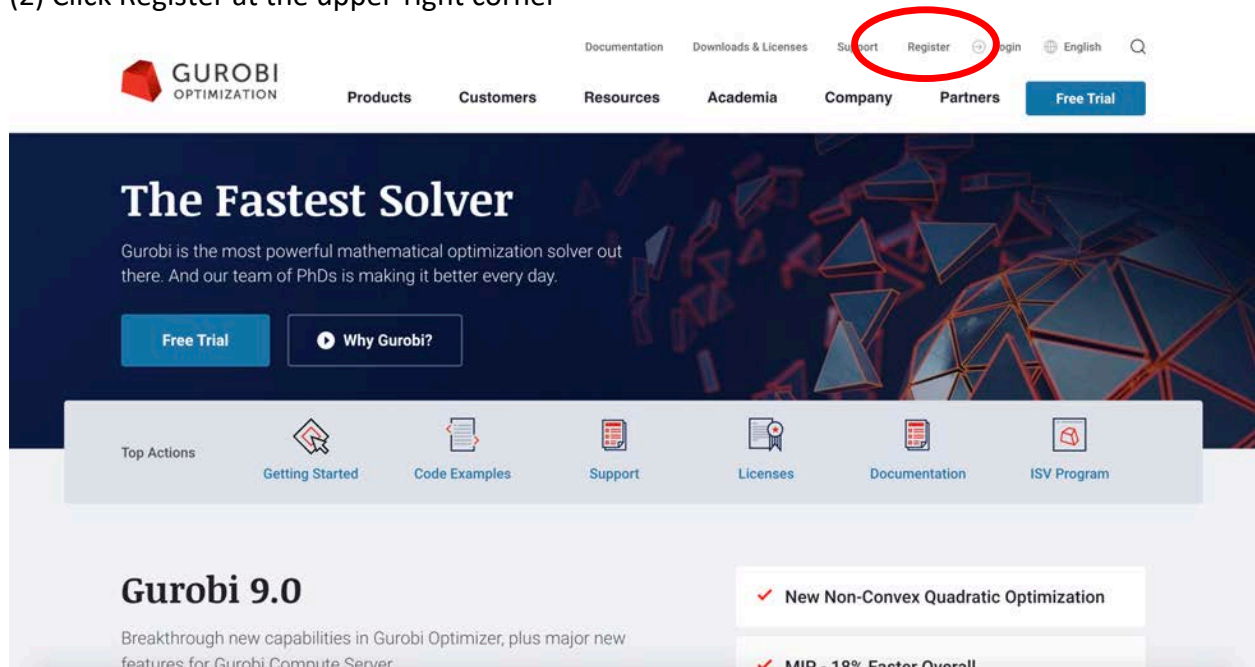


(7) You are all set with the installation of Python

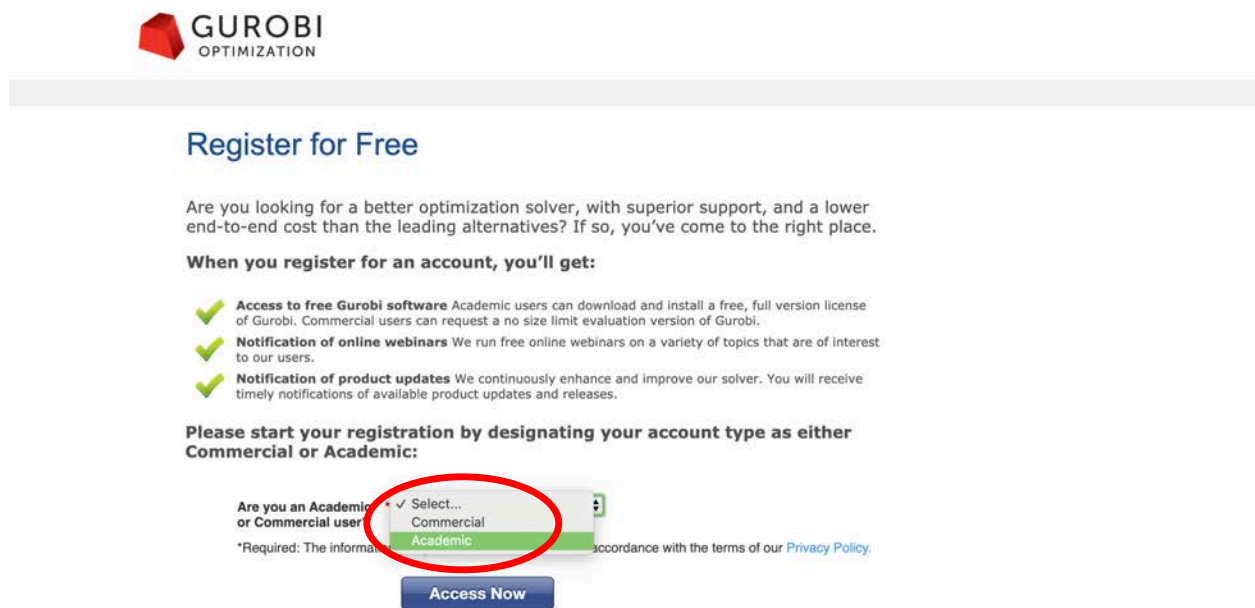
2. Gurobi Installation

(1) Go to <https://www.gurobi.com/>

(2) Click Register at the upper-right corner



(3) Select “Academic”



(4) Input your information (Note: Use your husky email address)

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

Are you an Academic or Commercial user? **Academic**

First Name: *

Last Name: *

Company Email Address: * xxx.xx@husky.neu.edu

University: * **Northeastern University**

Academic Position: Select...

Phone Number: *

Check this box if you also consult with commercial businesses: ☐

Country: * **United States of America (USA)**


State: **MA**

Husky Email Address

*Required: The information you provide to us will be used in accordance with the terms of our [Privacy Policy](#).

Access Now

(5) Check your email and set up your password through the link in the email.



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Home » Thank You for Registering

Thank You for Registering

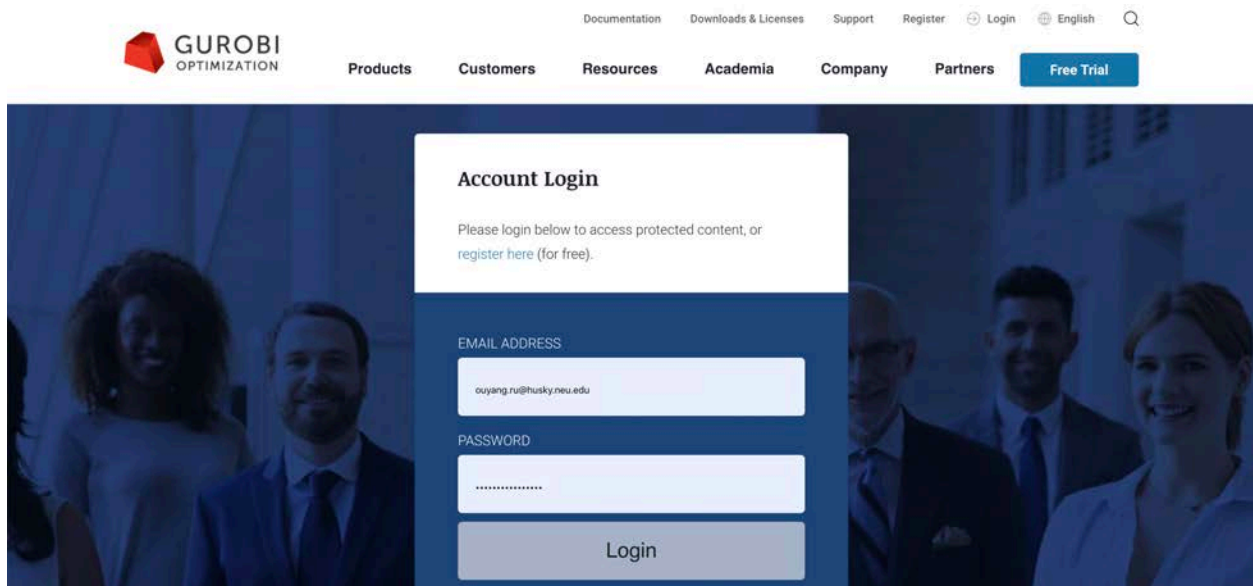
You are almost done...

To complete the process, please check your email inbox so you can verify your email address and set your password.

Please look for an email from website@gurobi.com. If you do not see the email, please check your spam folder. If you do not receive an email within 5 minutes, please contact websupport@gurobi.com.

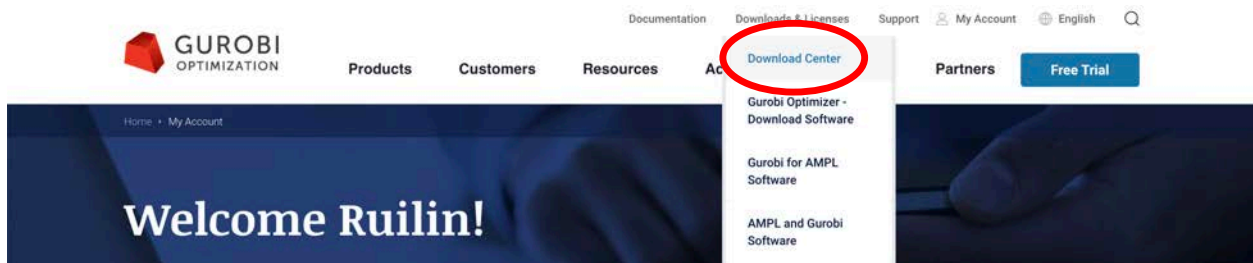
Once you have confirmed your email and set your password, you will be logged in and can access the login-required areas of the website.

(6) Login your account on Gurobi.com




The screenshot shows the Gurobi website's account login page. At the top, there is a navigation bar with links for Documentation, Downloads & Licenses, Support, Register, Login, and English. Below this, a main navigation bar includes Products, Customers, Resources, Academia, Company, Partners, and a Free Trial button. The central part of the page features a large blue banner with a group of people. Overlaid on this banner is a white 'Account Login' form. The form contains the text 'Please login below to access protected content, or register here (for free).', followed by input fields for 'EMAIL ADDRESS' (containing 'ouyang.ru@husky.neu.edu') and 'PASSWORD' (masked with dots). A 'Login' button is at the bottom of the form.

(7) Click the “Downloads & Licenses” and go to the “Download Center”

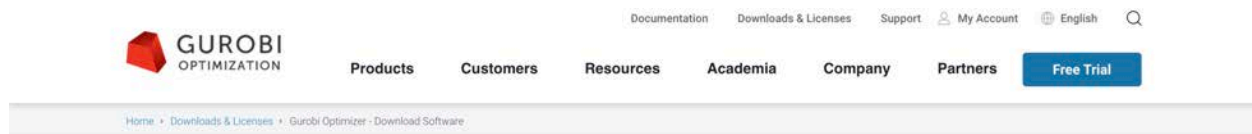


(8) Click the “Gurobi Optimizer”



The screenshot displays the 'Software Downloads and License Center' page. The page has a header with the Gurobi logo and navigation links. Below the header, a large heading reads 'Software Downloads and License Center'. A paragraph states: 'To use Gurobi, first download the software and then get a license key.' This is followed by the section 'Download the Latest Version of Gurobi'. Below this section, a paragraph explains: 'To download the latest version of Gurobi Optimizer, please click on the Gurobi Optimizer button below. If you want to download both AMPL and Gurobi, click on the AMPL & Gurobi Software button. If you already have AMPL and would like to get Gurobi for AMPL, click on the Gurobi Solver for AMPL button.' At the bottom, there are three buttons: 'Gurobi Optimizer' (circled in red), 'Gurobi Solver for AMPL', and 'AMPL & Gurobi Software'.

(9) Click “I Accept the End User License Agreement”



Download Gurobi Optimizer

To download and use Gurobi software, please read and accept the End User License Agreement. [I Accept the End User License Agreement](#)

(10) Download the “Current Version 9.0.0” and Install it on your PC

Gurobi Optimizer – Get the Software

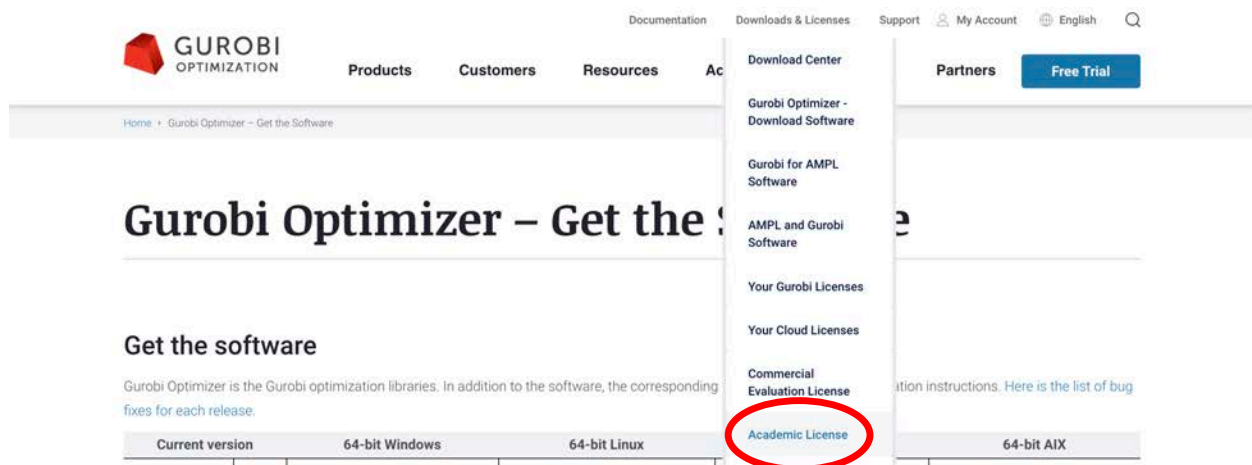
Gurobi Optimizer

Gurobi Optimizer is the Gurobi optimization libraries. In addition to the software, the corresponding README file contains installation instructions. [Here is the list of bug fixes for each release.](#)

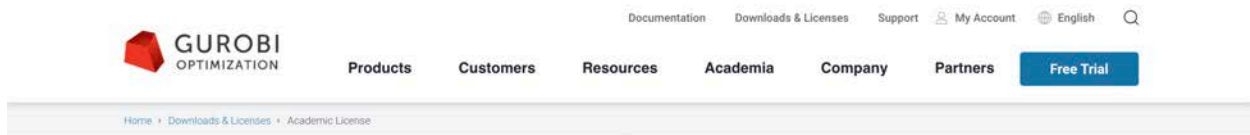
Current version		64-bit Windows	64-bit Linux	64-bit macOS	64-bit AIX
9.1.1	README	Gurobi-9.1.1-win64.msi	gurobi9.1.1_linux64.tar.gz	gurobi9.1.1_mac64.pkg	gurobi9.1.1_power64.tar.gz
md5 Checksum		757563a1cc25bb8dd8ecbfa30bce4cb	8b8814960e5fd2609b603cacfd2b14cb	8e7ee097260f0df2d85fd55004705ad3	d819ad1fe28c4168aaf81d71431a1496

(11) After Installation, we need to acquire a license to activate the Gurobi on you PC

Click the “Downloads & Licenses” and go to the “Academic License”



(12) Click “I Accept These Conditions”



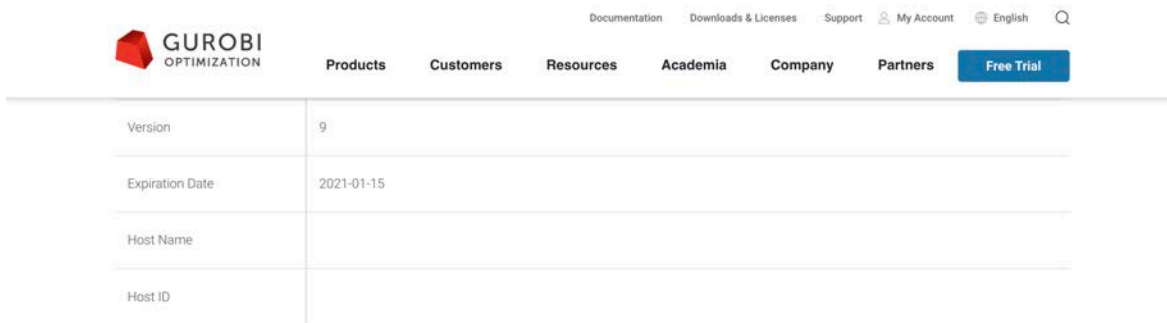
Academic License Registration

Please read and accept the conditions for use of an Academic License:

An academic license may only be used by a faculty member, a student, or a member of the research or administrative staffs of a degree-granting academic institution. The code may be used only for research and educational purposes. Access for commercial purposes is forbidden.

We urge academic users to upgrade to the latest version of Gurobi Optimizer. Some features, such as `grbgetkey`, may not work correctly in older releases.

(13) Scroll down and you will see the Gurobi license



Installation

To install this license on a computer where Gurobi Optimizer is installed, copy and paste the following command to the Start/Run menu (Windows only) or a command/terminal prompt (any system):

```
grbgetkey c2346770-[REDACTED]-020d093b5256
```

The `grbgetkey` command requires an active internet connection. If your computer has no internet access, or you get no response or an error message such as "Unable to contact key server", Please click [here](#) for additional instructions.

(14) Open Command Prompt (or Terminal for Mac Users). Copy Past the license and press ‘Enter’. If you see information like the following screen shot, you’re all set

The screenshot shows a Windows Command Prompt window with the following text:

```
Microsoft Windows [Version 10.0.17763.973]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\rui\in>grbgetkey c2346770-[REDACTED]-020d093b5256
info : grbgetkey version 9.0.0, build v9.0.0rc2
info : Contacting Gurobi key server...
info : Key for license ID 396926 was successfully retrieved
info : License expires at the end of the day on 2021-01-15
info : Saving license key...

In which directory would you like to store the Gurobi license key file?
[hit Enter to store it in C:\Users\rui\in]:

A license key file already exists in 'C:\Users\rui\in\gurobi.lic'
Continue? [Y/n]

info : License 396926 written to file C:\Users\rui\in\gurobi.lic
C:\Users\rui\in>
```