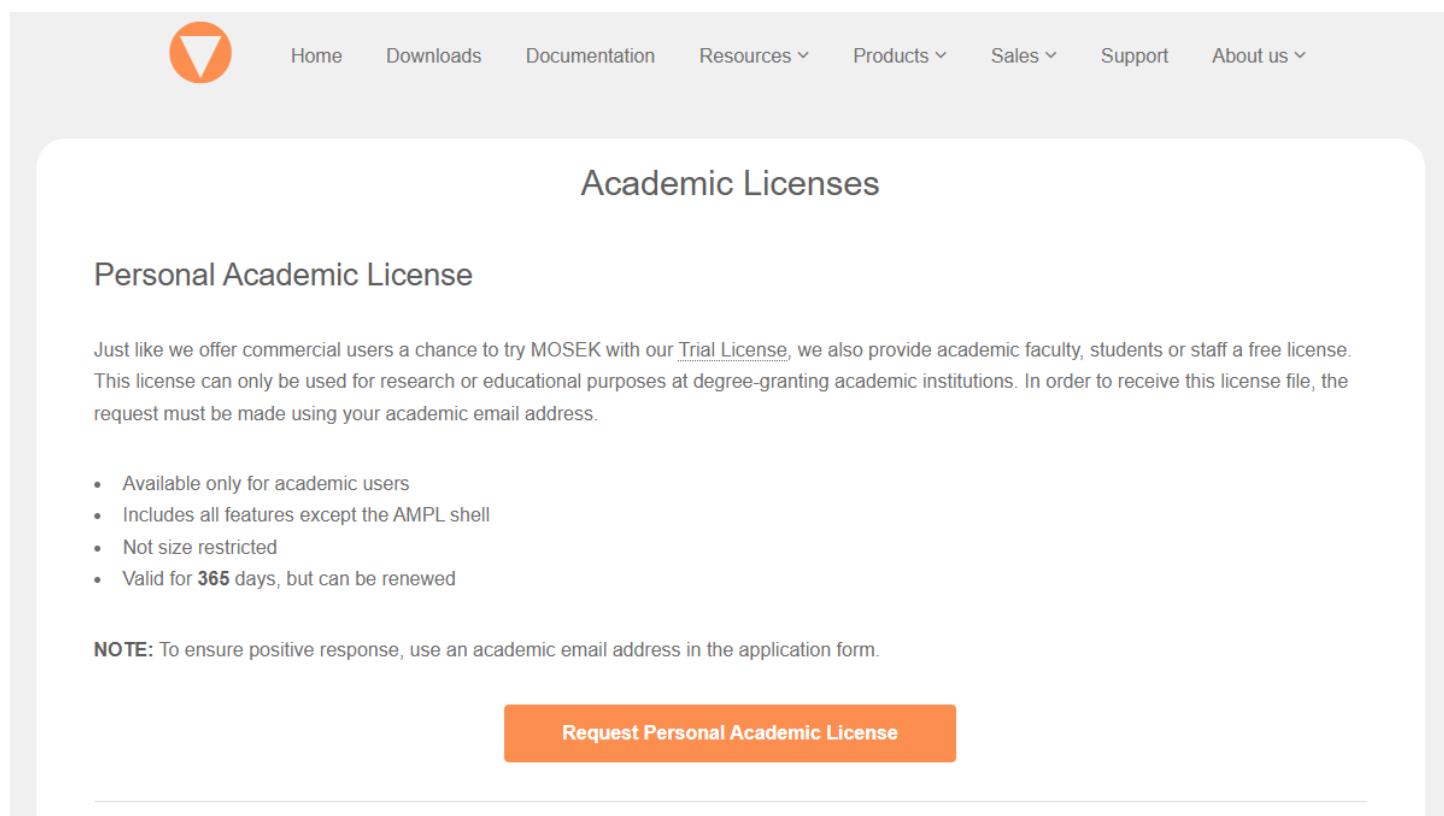


2026.2.27 mosek、gurobi在matlab的一键安装配置

以往在安装mosek、gurobi的时候需要去找网上的安装配置教程，一会儿下载，一会儿安装，一会儿又去申请license许可证明，一会儿又去matlab中配置对应的求解器，还要去找相关的安装路径。之前在配置的时候花了小半天时间，现在有了claude code之后只需要用这个skill就给出申请的学术许可就可以一键安装配置啦

只需要在这个里面用学校邮箱申请学术许可

mosek学术许可页面<https://www.mosek.com/products/academic-licenses/>



The screenshot shows the MOSEK website's 'Academic Licenses' section. At the top, there is a navigation bar with links for Home, Downloads, Documentation, Resources, Products, Sales, Support, and About us. Below the navigation bar, the title 'Academic Licenses' is centered. Underneath the title, the heading 'Personal Academic License' is displayed. A descriptive paragraph explains that academic users can receive a free license for research or educational purposes at degree-granting institutions, noting that the request must be made using an academic email address. A bulleted list details the features of the license: it is available only for academic users, includes all features except the AMPL shell, is not size restricted, and is valid for 365 days, though it can be renewed. A note below states that using an academic email address ensures a positive response. At the bottom of the section is a prominent orange button labeled 'Request Personal Academic License'.

gurobi学术许可页面<https://www.gurobi.com/academia/academic-program-and-licenses/>



ACADEMIC LICENSE PROGRAM

Free Optimization Licenses for Academics & Recent Graduates

Full-featured access to the Gurobi Optimizer – perfect for teaching and research, with no limits on the model size.

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申请完成后下载相关的许可就好，可以直接放在桌面



直接将两个文件直接拖入cluade code中

```
> Matlab, 路径为 D:\learning tools\matlab\bin\matlab.exe, 帮我装一下求解器mosek和gurobi,  
我的许可证在这C:\Users\18089\Desktop\gurobi.lic, C:\Users\18089\Desktop\mosek.lic
```

- Minnn, 先检查一下系统里是否已经安装了这两个求解器。
- Read 3 files (ctrl+o to expand)
- 两个求解器都未安装, 许可证文件存在。先看一下许可证内容确认版本。
- Read 2 files (ctrl+o to expand)
- Minnn, 许可证信息确认：
 - MOSEK 版本 11, 有效期到 2027-01-15
 - Gurobi 版本 13, 有效期到 2027-02-05

之后该skill会自动根据电脑的配置信息去和许可证信息装相应版本的求解器

找到了，两个下载链接都确认：

- MOSEK 11.1.6: <https://download.mosek.com/stable/11.1.6/mosektoolswin64x86.zip>
- Gurobi 13.0.0: <https://packages.gurobi.com/13.0/Gurobi-13.0.0-win64.msi>

开始下载，文件比较大，同时下载两个。

```
Bash(mkdir -p /c/Users/18089/solver_install && echo "Download dir ready")
└ Download dir ready

Bash(powershell -Command "Start-BitsTransfer -Source
  'https://packages.gurobi.com/13.0/Gurobi-13.0.0-win64.msi' -Destination
  'C:\Users\18089\solver_install\Gurobi-13...')
└ Running in the background (↓ to manage)

Bash(powershell -Command "Start-BitsTransfer -Source
  'https://download.mosek.com/stable/11.1.6/mosektoolswin64x86.zip' -Destination
  'C:\Users\18089\solver_install\mo...')
└ Running in the background (↓ to manage)
```

Minnn，两个文件正在后台下载中，检查进度。

之后会自动安装配置求解器到matlab中

两个求解器全部搞定，Minnn！
MOSEK 11.1 ✓ MSK_RES_OK
Gurobi 13.0 ✓ Optimal objective 1.0, 许可证有效期到 2027-02-27

最后在matlab中验证一下是否已经加载了求解器

代码块

```
1 在MATLAB命令行直接运行：
2 检查是否能找到求解器
3 % 检查 MOSEK 是否在路径中
4 which mosekopt
5 % 检查 Gurobi 是否在路径中
6 which gurobi
7
8 验证 MOSEK 可用
9 [r, res] = mosekopt('minimize echo(0)', struct( ...
10     'c', [1], 'a', sparse(1,1,1), ...
11     'blc', [1], 'buc', [1], 'blx', [0], 'bux', [inf]));
12 disp(res.rcodestr)% 正常输出: MSK_RES_OK
13
14 验证 Gurobi 可用
15 m.obj = [1]; m.A = sparse(1,1,1);
16 m.rhs = [1]; m.sense = '='; m.lb = [0];
17 r = gurobi(m);
18 disp(r.status)      % 正常输出: OPTIMAL
```

matlab运行结果

```
>> which mosekopt
C:\Users\18089\mosek\mosek\11.1\toolbox\R2019b\mosekopt_mexw64
>> which gurobi
C:\gurobi1300\win64\matlab\gurobi_mexw64
>> [r, res] = mosekopt('minimize echo(0)', struct( ...
    'c', [1], 'a', sparse(1,1,1), ...
    'blc', [1], 'buc', [1], 'blx', [0], 'bux', [inf]));
    disp(res.rcodestr)% 正常输出: MSK_RES_OK
MSK_RES_OK
>> m.obj = [1]; m.A = sparse(1,1,1);
m.rhs = [1]; m.sense = '='; m.lb = [0];
r = gurobi(m);
disp(r.status)      % 正常输出: OPTIMAL
Set parameter Username
Set parameter LicenseID to value 2785325
Academic license - for non-commercial use only - expires 2027-02-27
Gurobi Optimizer version 13.0.0 build v13.0.0rc1 (win64 - Windows 11+0 (26200.2))

CPU model: AMD Ryzen 9 7940HX with Radeon Graphics, instruction set [SSE2|AVX|AVX2|AVX512]
Thread count: 16 physical cores, 32 logical processors, using up to 32 threads

Optimize a model with 1 rows, 1 columns and 1 nonzeros (Min)
Model fingerprint: 0xff043398
Model has 1 linear objective coefficients
Coefficient statistics:
    Matrix range      [1e+00, 1e+00]
    Objective range   [1e+00, 1e+00]
    Bounds range     [0e+00, 0e+00]
    RHS range        [1e+00, 1e+00]
Presolve removed 1 rows and 1 columns
Presolve time: 0.01s
Presolve: All rows and columns removed
Iteration    Objective       Primal Inf.    Dual Inf.    Time
          0    1.0000000e+00    0.000000e+00    0.000000e+00    0s

Solved in 0 iterations and 0.02 seconds (0.00 work units)
Optimal objective  1.000000000e+00
OPTIMAL
```