

Python Installation for Data Analysis

2025 Accelerator and Beam Line Field Training

Jul 8 2025, Korea University Sejong Campus

Soohyung Lee, Ph. D (Korea University)



Miniconda Installation

- Visit <https://www.anaconda.com/download>


ANACONDA

[Products](#)
[Solutions](#)
[Resources](#)
[Company](#)

[Free Download](#)
[Sign In](#)
[Get a Demo >](#)

Distribution

FREE DOWNLOAD*

Register to get everything you need to get started on your workstation including Cloud Notebooks, Navigator, AI Assistant, Learning and more.

- ✓ Easily search and install thousands of data science, machine learning, and AI packages
- ✓ Manage packages and environments from a desktop application or work from the command line
- ✓ Deploy across hardware and software platforms
- ✓ Distribution installation on Windows, MacOS, or Linux

*Use of Anaconda's Offerings at an organization of more than 200 employees requires a Business or Enterprise license. [See Pricing](#)

Provide email to download Distribution

Email Address:

☐

Agree to receive communication from Anaconda regarding relevant content, products, and services. I understand that I can revoke this consent [here](#) at any time.

By continuing, I agree to Anaconda's [Privacy Policy](#) and [Terms of Service](#).

Submit >

Skip registration

Click "Skip registration"

Miniconda Installation



[Products](#) [Solutions](#) [Resources](#) [Company](#) [Sign In](#) [Get a Demo >](#)

Home

Download Now

Download Anaconda Distribution or Miniconda by choosing the proper installer for your machine. Learn the difference from our [Documentation](#).

Distribution Installers

 [Download for Mac](#) 

For installation assistance, refer to [troubleshooting](#).

 Windows

 Mac

 Linux

Miniconda Installers

 [Download for Mac](#) 

For installation assistance, refer to [troubleshooting](#).

 Windows

 Mac

 Linux

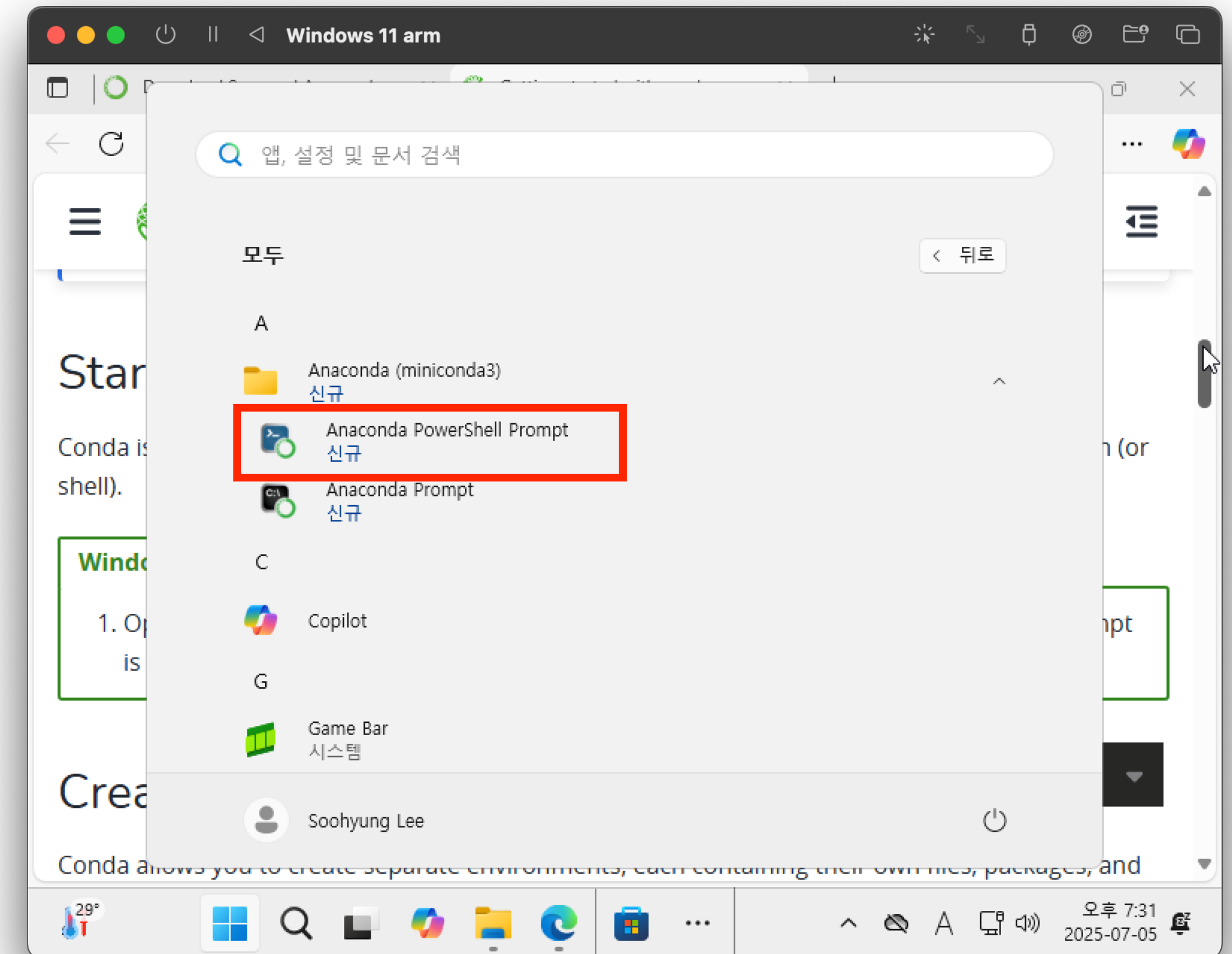
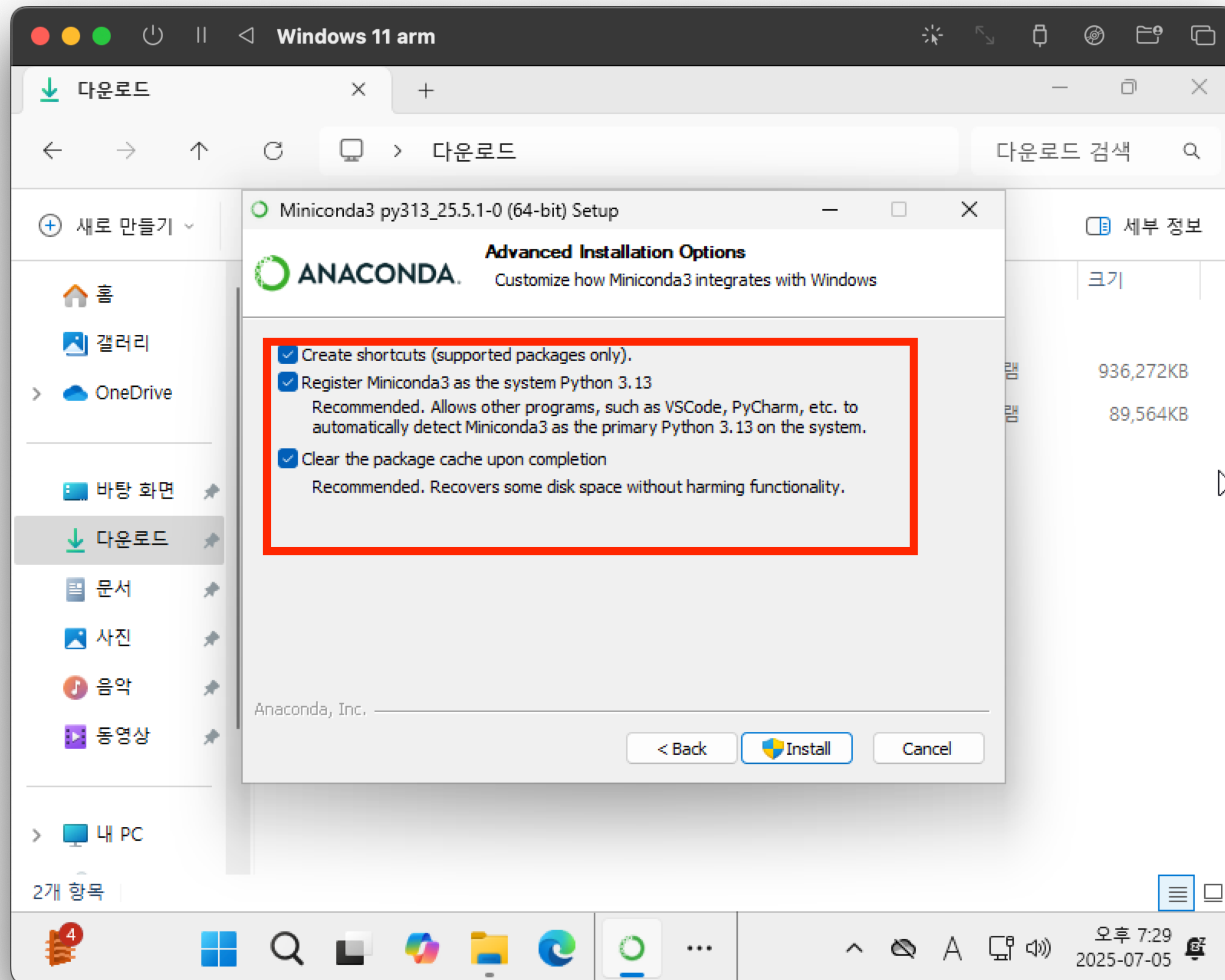
Hi, how can I help?



Download correct one for your OS

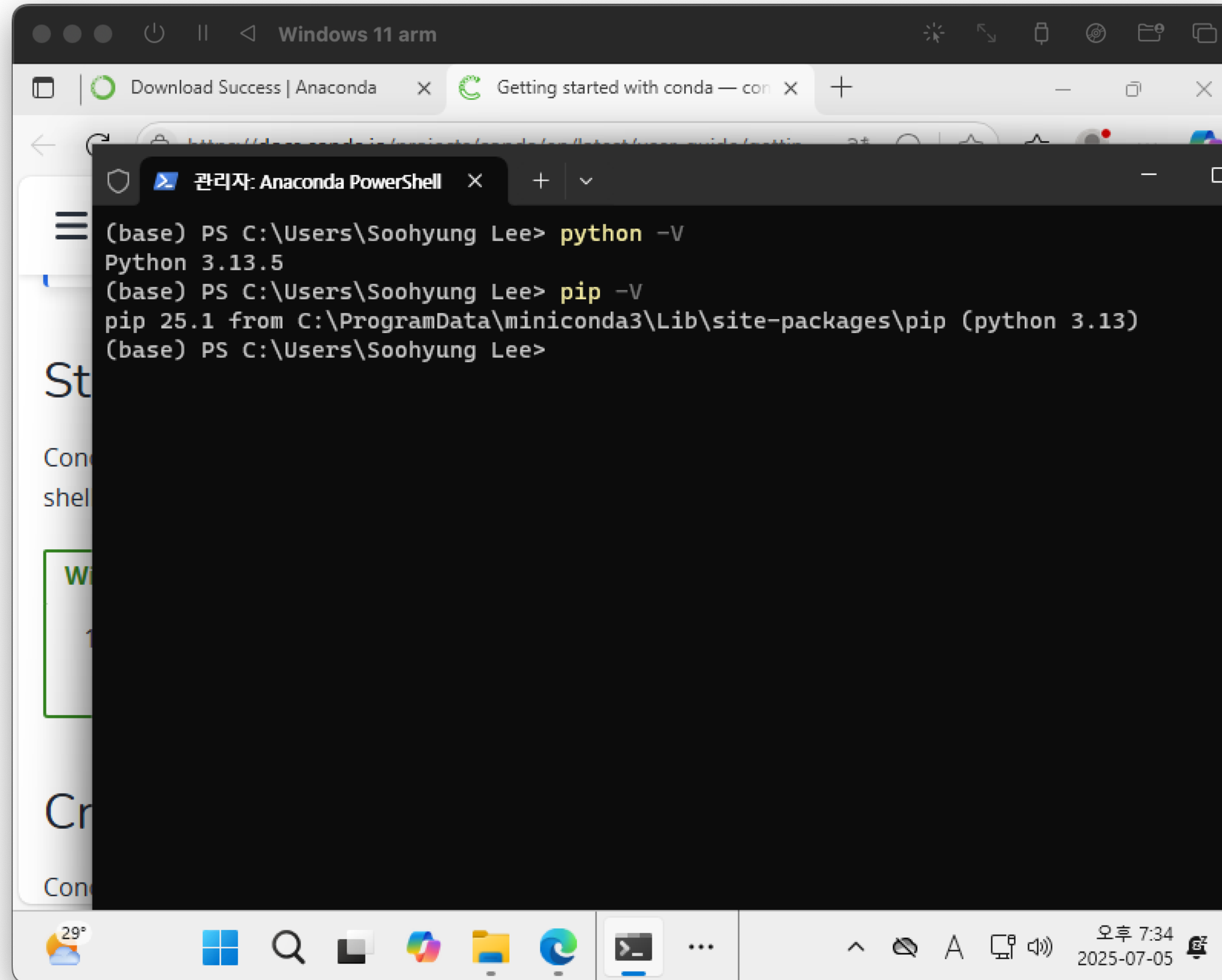
Miniconda Installation

- Run downloaded package and install it
- Check all the recommended options
- Run “Anaconda PowerShell Prompt”



Miniconda Installation

- Check your python and pip versions



The screenshot shows a Windows 11 arm system. In the background, a web browser displays the Anaconda documentation page titled "Getting started with conda". In the foreground, an Anaconda PowerShell terminal window is open, showing the following commands and output:

```
(base) PS C:\Users\Soohyung Lee> python -V
Python 3.13.5
(base) PS C:\Users\Soohyung Lee> pip -V
pip 25.1 from C:\ProgramData\miniconda3\Lib\site-packages\pip (python 3.13)
(base) PS C:\Users\Soohyung Lee>
```

The taskbar at the bottom shows the system clock as 7:34 PM on 2025-07-05, along with various system icons and the Windows Start button.

Miniconda Installation

- Installing necessary python packages (using pip)
 - If you have been using anaconda, create a new environment
 - *conda install pandas scipy matplotlib*
 - *pip install lmfit*

```

Windows 11 arm
관리자: Anaconda PowerShell

(base) PS C:\Users\Soohyung Lee> conda install pandas scipy matplotlib
Channels:
 - defaults
Platform: win-64
Collecting package metadata (repodata.json): done
Solving environment: done

## Package Plan ##

environment location: C:\ProgramData\miniconda3

added / updated specs:
- matplotlib
- pandas
- scipy

The following packages will be downloaded:

package | build | size
-----|-----|-----
blas-1.0 | mkl | 6 KB
bottleneck-1.4.2 | py313h2cb717b_0 | 145 KB
certifi-2025.6.15 | py313haa95532_0 | 157 KB
contourpy-1.3.1 | py313h214f63a_0 | 234 KB

```

```

Windows 11 arm
관리자: Anaconda PowerShell

(base) PS C:\Users\Soohyung Lee> pip install lmfit
Collecting lmfit
  Downloading lmfit-1.3.3-py3-none-any.whl.metadata (13 kB)
Collecting asteval>=1.0 (from lmfit)
  Downloading asteval-1.0.6-py3-none-any.whl.metadata (6.2 kB)
Requirement already satisfied: numpy>=1.24 in c:\programdata\miniconda3\lib\site-pack
ages (from lmfit) (2.3.1)
Requirement already satisfied: scipy>=1.10.0 in c:\programdata\miniconda3\lib\site-pa
ckages (from lmfit) (1.15.3)
Collecting uncertainties>=3.2.2 (from lmfit)
  Downloading uncertainties-3.2.3-py3-none-any.whl.metadata (7.0 kB)
Collecting dill>=0.3.4 (from lmfit)
  Downloading dill-0.4.0-py3-none-any.whl.metadata (10 kB)
Downloading lmfit-1.3.3-py3-none-any.whl (100 kB)
Downloading asteval-1.0.6-py3-none-any.whl (22 kB)
Downloading dill-0.4.0-py3-none-any.whl (119 kB)
Downloading uncertainties-3.2.3-py3-none-any.whl (60 kB)
Installing collected packages: uncertainties, dill, asteval, lmfit
Successfully installed asteval-1.0.6 dill-0.4.0 lmfit-1.3.3 uncertainties-3.2.3
(base) PS C:\Users\Soohyung Lee> @@

(base) PS C:\Users\Soohyung Lee>

```

Miniconda Installation

- Test if everything's good to go

[illegible]

If you don't see any error message, you are all set!