

Running a DeepWonder notebook

Save a copy of the Colab notebook into your Google drive.

The screenshot shows the Google Colab interface for a notebook titled "Deepwonder_deep_widefield_neuron_finder.ipynb". The "File" menu is open, and the option "Save a copy in Drive" is highlighted. Two red arrows and numbers indicate the steps: Arrow 1 points to the "File" menu, and Arrow 2 points to the "Save a copy in Drive" option. The background of the notebook displays a complex network graph with blue and orange nodes and edges. The interface includes a top bar with "Comment", "Share", and "Settings" icons, and a right sidebar with "RAM", "Disk", and "Editing" status indicators.

CO PRO Deepwonder_deep_widefield_neuron_finder.ipynb ☆

File Edit View Insert Runtime Tools Help Last saved at 4:33 PM

Comment Share Settings Z

RAM Disk Editing

↑ ↓ ↻ 💬 📄 🗑️ ⋮

Save a copy in Drive

Save a copy as a GitHub Gist

Save a copy in GitHub

Save Ctrl+S

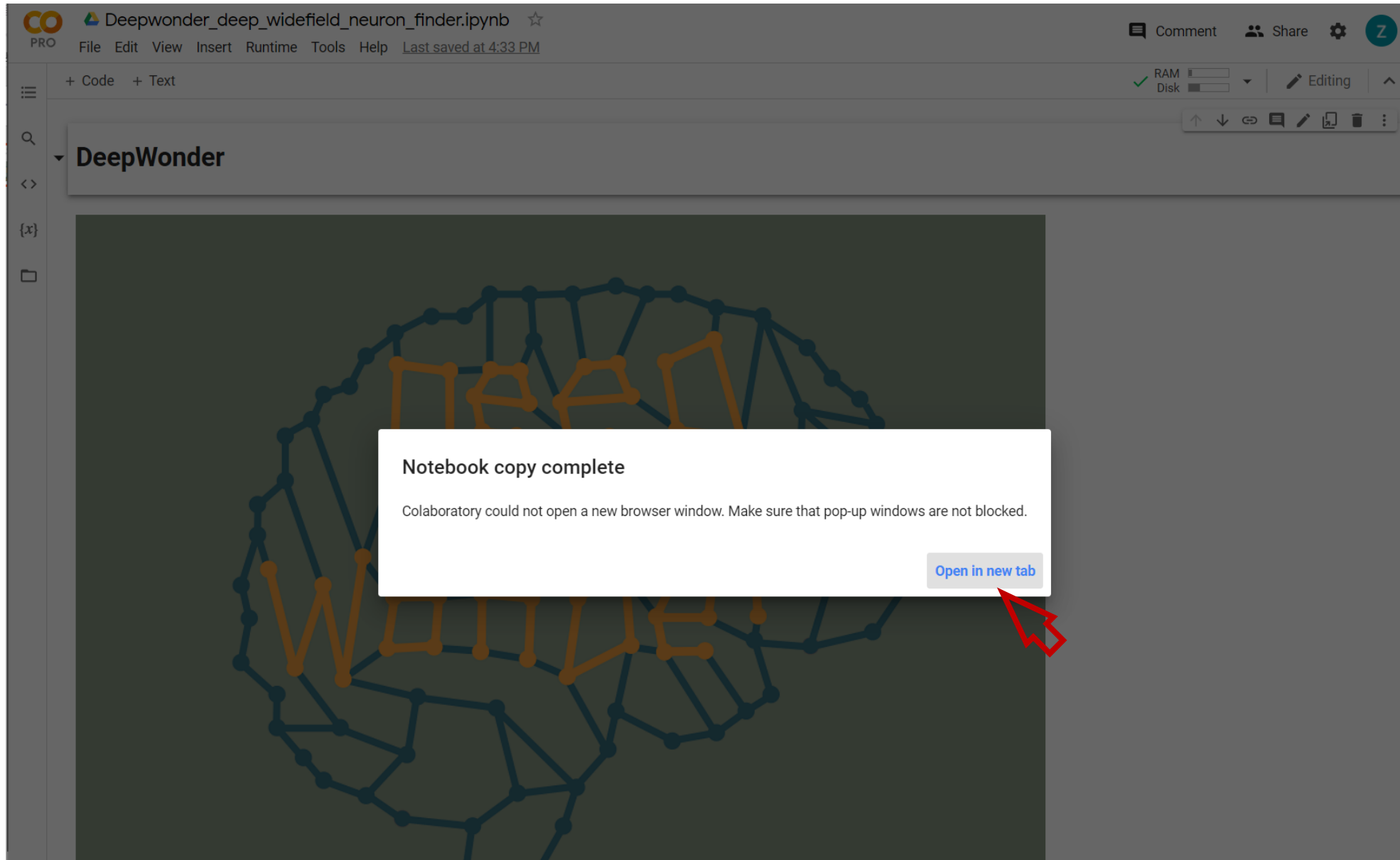
Save and pin revision Ctrl+M S

Revision history

Download ▶

Print Ctrl+P

Save a copy of the Colab notebook into your Google drive.



Rename the file according to your preference

The screenshot displays the JupyterLab web interface. At the top, the browser address bar shows the file name 'My Copy of Deepwonder deep widefield neuron finder.ipynb'. A red arrow points to this text, indicating the renaming process. Below the address bar, the file name has been changed to 'DeepWonder' in the left-hand sidebar. The main workspace area shows a visualization of a brain with a network of blue nodes and edges. Overlaid on this network is the word 'Wonder' in a large, orange, stylized font. The interface includes standard JupyterLab controls such as 'File', 'Edit', 'View', 'Insert', 'Runtime', 'Tools', and 'Help' menus, as well as 'Comment', 'Share', and 'Settings' icons in the top right corner.

Download the demo data

1.Synthetic widefield data by NAOMi1p code:

<https://drive.google.com/drive/folders/1WiTrL5gRuMUssMYt2uDRDO-5pmmrdNSc?usp=sharing>

2.Cropped RUSH data:

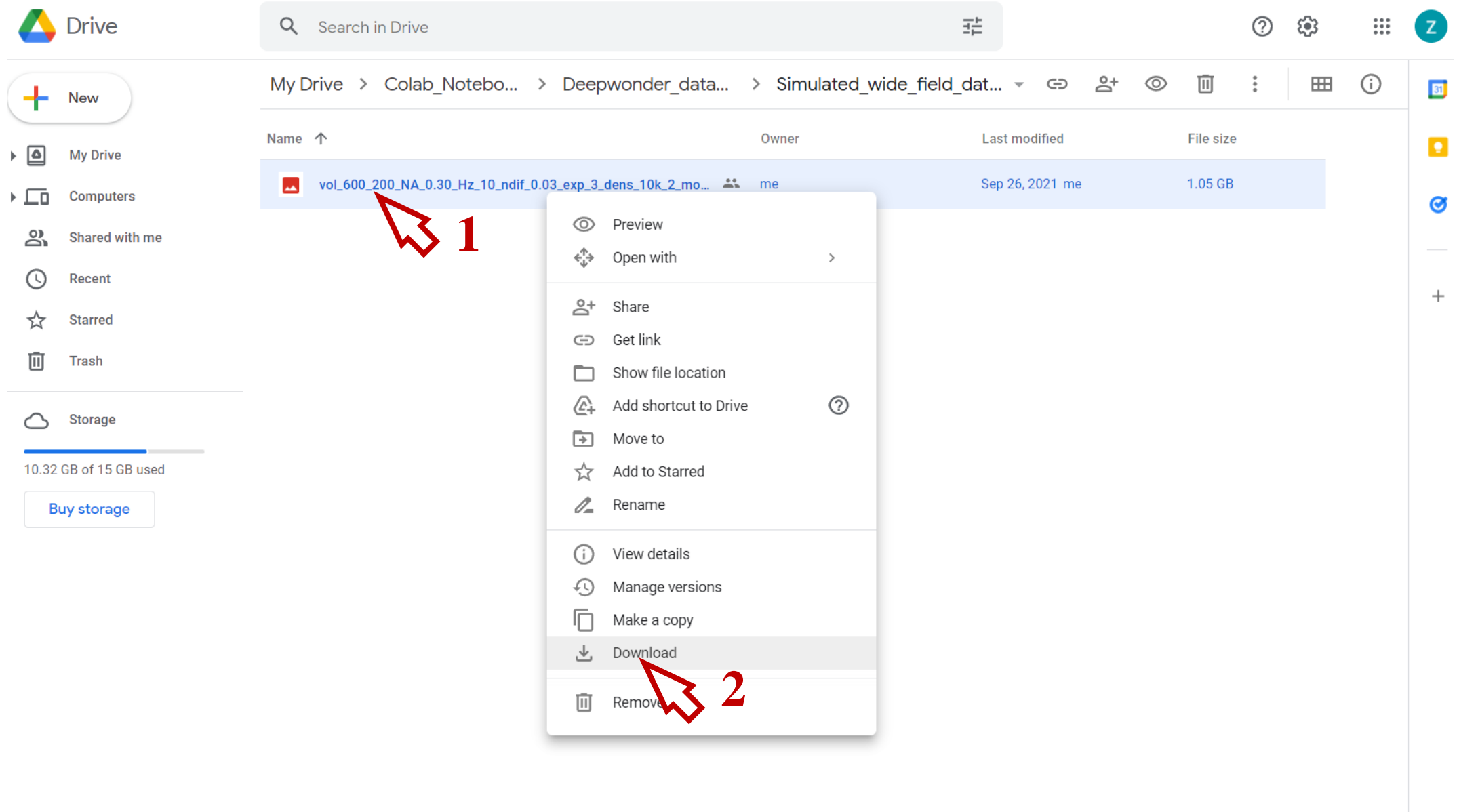
https://drive.google.com/drive/folders/1CP6CuAmOkAx_hoAhT4h-Pd1o_FTcva9M?usp=sharing

3.Widefield data jointly with two-photon ground truth:

https://drive.google.com/drive/folders/1T7vaOT4tThMumCxi_sFeN5vybv91pl2f?usp=sharing

(Check the link in your browser since sometimes “-” or “_” will miss)

Download the demo data

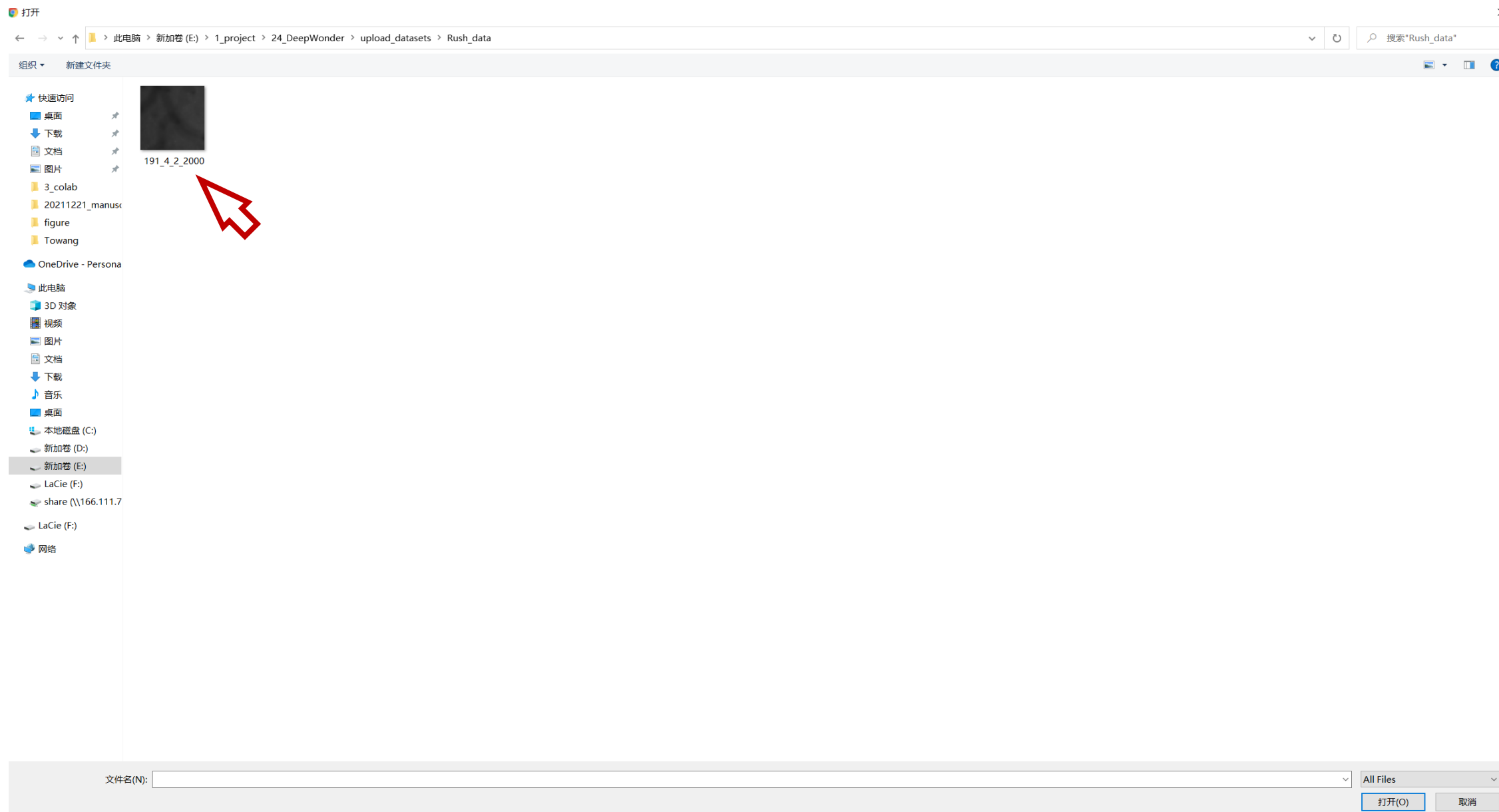


The screenshot shows the Google Drive web interface. On the left, there is a sidebar with navigation options: 'New', 'My Drive', 'Computers', 'Shared with me', 'Recent', 'Starred', 'Trash', and 'Storage'. The 'Storage' section indicates '10.32 GB of 15 GB used' and has a 'Buy storage' button. The main area shows a breadcrumb path: 'My Drive > Colab_Notebo... > Deepwonder_data... > Simulated_wide_field_dat...'. Below this is a table of files. One file is selected, and a context menu is open over it. A red arrow labeled '1' points to the file name, and another red arrow labeled '2' points to the 'Download' option in the menu.

Name	Owner	Last modified	File size
vol_600_200_NA_0.30_Hz_10_ndif_0.03_exp_3_dens_10k_2_mo...	me	Sep 26, 2021	1.05 GB

- Preview
- Open with
- Share
- Get link
- Show file location
- Add shortcut to Drive
- Move to
- Add to Starred
- Rename
- View details
- Manage versions
- Make a copy
- Download
- Remove

Upload the demo data



Download the trained models

1. Background removing model:

<https://drive.google.com/drive/folders/1K3O1TQAOqAwwiwblF2YS90kFNAqnULwK?usp=sharing>

2. Neuron segmentation model:

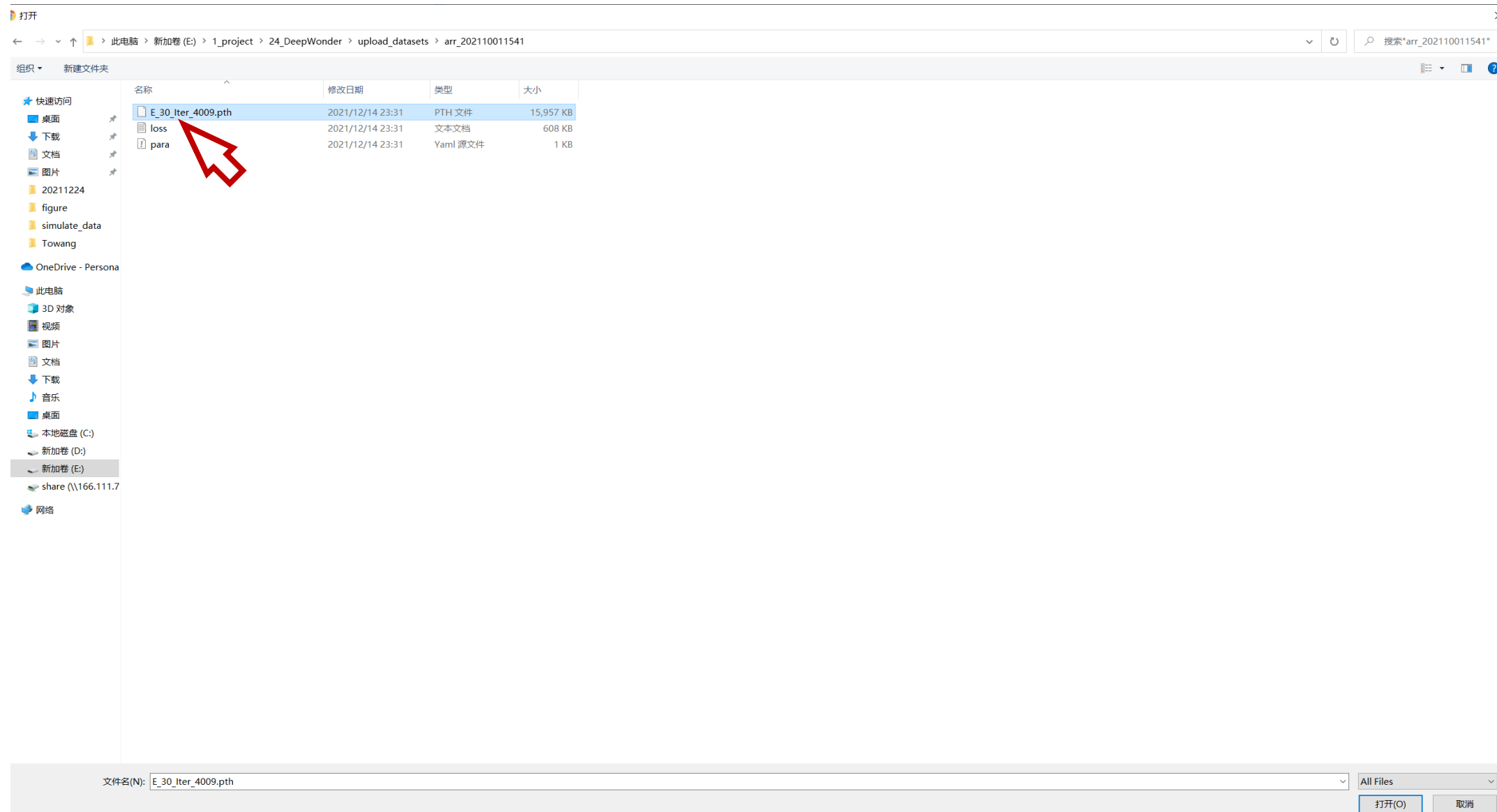
<https://drive.google.com/file/d/1SR7VXdRADTLa3tOfBtTmqEZk2kZEmXId/view?usp=sharing>

Download the background removing model

The screenshot shows the Google Drive web interface. The left sidebar contains navigation options: 'New', 'My Drive', 'Computers', 'Shared with me', 'Recent', 'Starred', 'Trash', and 'Storage' (10.32 GB of 15 GB used). The main area displays a folder named 'RMBG_model' containing a subfolder 'arr_202110011541'. Inside this subfolder, a file named 'E_30_iter_4000.pth' is selected. A context menu is open over this file, with a red arrow labeled '1' pointing to the 'Open with' option and another red arrow labeled '2' pointing to the 'Download' option. The context menu includes options: Preview, Open with, Share, Get link, Show file location, Add shortcut to Drive, Move to, Add to Starred, Rename, View details, Manage versions, Make a copy, Download, and Remove.

Name	Owner	Last modified	File size
E_30_iter_4000.pth	me	Dec 15, 2021	15.6 MB
loss.txt	me	Dec 15, 2021	607 KB
para.yaml	me	Dec 15, 2021	312 bytes

Upload the background removing model



Download the neuron segmentation model

The screenshot shows the Google Drive web interface. The left sidebar contains navigation options: 'New', 'My Drive', 'Computers', 'Shared with me', 'Recent', 'Starred', 'Trash', and 'Storage' (with a progress bar showing 10.32 GB of 15 GB used and a 'Buy storage' button). The main area displays a file named 'seg_3' (3.9 MB) under the path 'My Drive > ... > SEG_model > TS3DUnetFFD_20211129_1355'. A context menu is open over the file, with a red arrow labeled '1' pointing to the 'Open with' option and another red arrow labeled '2' pointing to the 'Download' option. The 'Download' option is highlighted in the menu.

Drive

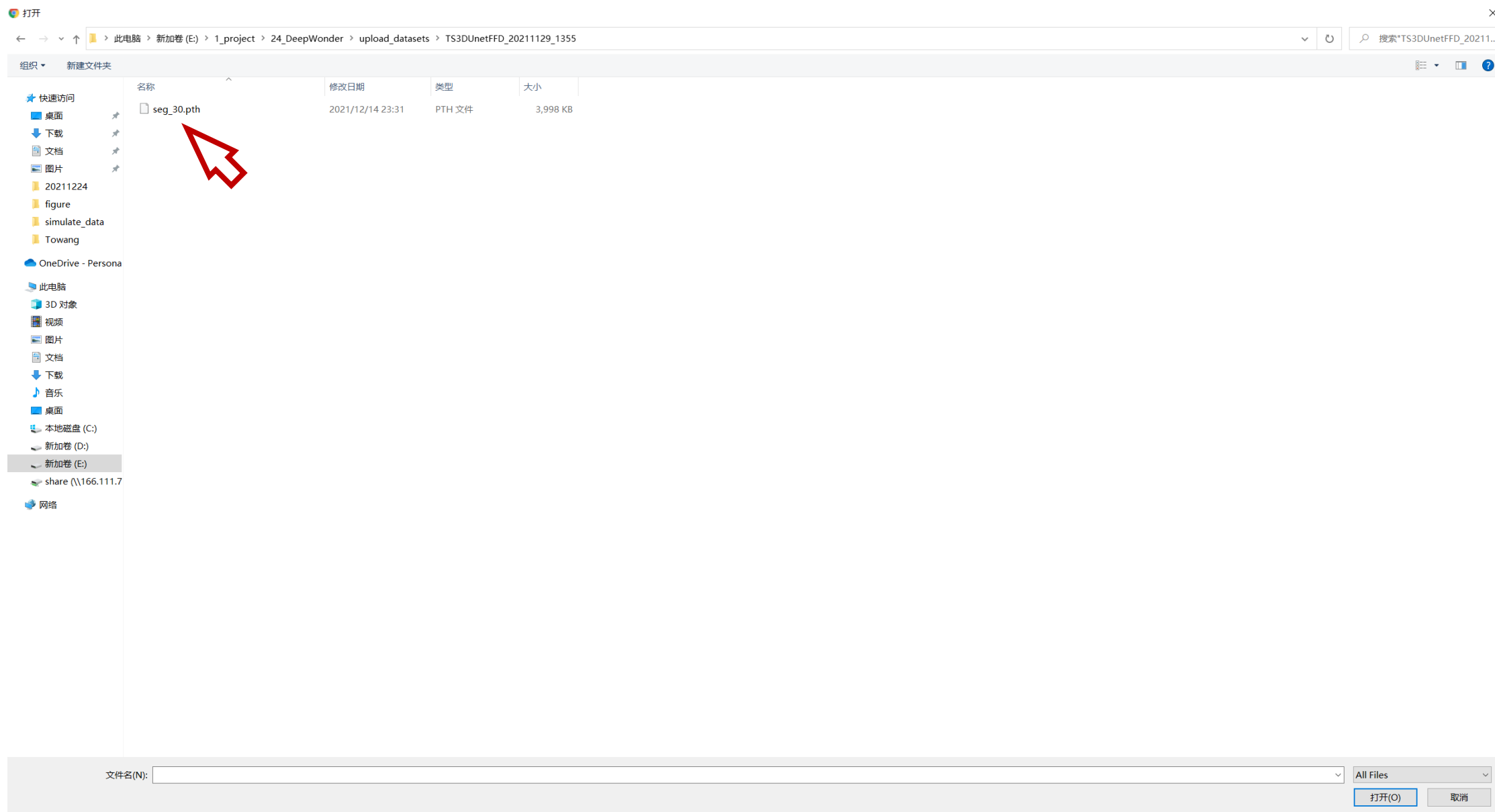
Search in Drive

My Drive > ... > SEG_model > TS3DUnetFFD_20211129_1355

Name	Owner	Last modified	File size
seg_3	me	Dec 27, 2021 me	3.9 MB

- Preview
- Open with
- Share
- Get link
- Show file location
- Add shortcut to Drive
- Move to
- Add to Starred
- Rename
- View details
- Manage versions
- Make a copy
- Download
- Remove

Upload the neuron segmentation model



Clear the output from previous stage

The image shows a Jupyter Notebook interface. At the top, the title bar reads "My Copy of Deepwonder_deep_widefield_neuron_finder.ipynb" with a star icon. Below the title bar is a menu bar with "File", "Edit", "View", "Insert", "Runtime", "Tools", and "Help". The "Edit" menu is open, displaying a list of options: "Select all cells" (Ctrl+Shift+A), "Cut cell or selection", "Copy cell or selection", "Paste", "Delete selected cells" (Ctrl+M D), "Find and replace" (Ctrl+H), "Find next" (Ctrl+G), "Find previous" (Ctrl+Shift+G), "Notebook settings", and "Clear all outputs". A red arrow labeled "1" points to the "Edit" menu, and another red arrow labeled "2" points to the "Clear all outputs" option. The main content area shows a network graph with blue nodes and edges, and several orange rectangular regions highlighting specific parts of the graph. On the right side of the interface, there are buttons for "Comment", "Share", and "Settings", along with a user profile icon. Below these is a "Connect" button and an "Editing" status indicator. At the bottom right, there is a toolbar with icons for navigation and editing.

Set GPU

The image shows a Jupyter Notebook interface with the title "My Copy of Deepwonder_deep_widefield_neuron_finder.ipynb". The "Edit" menu is open, and the "Notebook settings" option is highlighted. A red arrow labeled "1" points to the "Edit" menu, and another red arrow labeled "2" points to the "Notebook settings" option. The notebook content displays a visualization of a neural network structure, featuring a blue grid of nodes and connections, with several orange rectangular regions highlighted. The interface includes a top bar with "Comment", "Share", and "Settings" icons, and a bottom bar with navigation and editing tools.

My Copy of Deepwonder_deep_widefield_neuron_finder.ipynb ☆

PRO File Edit View Insert Runtime Tools Help [All changes saved](#)

Connect | Editing

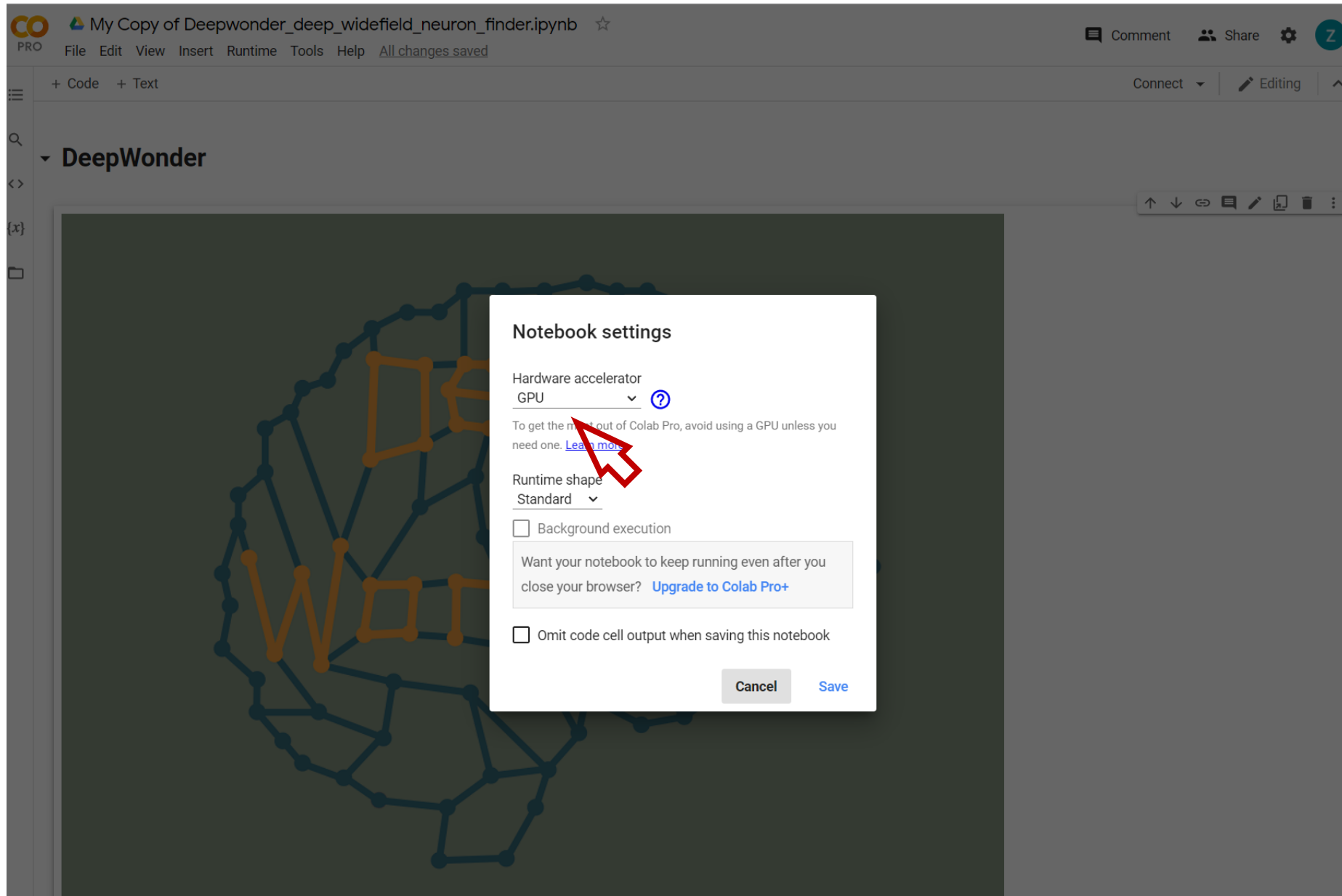
↑ ↓ ↶ ↷ ↸ ↹ ↺ ↻

1

2

Notebook settings

Set GPU



The screenshot shows the Google Colab interface for a notebook titled "My Copy of Deepwonder_deep_widefield_neuron_finder.ipynb". The notebook is in "Editing" mode. A "Notebook settings" dialog box is open, displaying the following options:

- Hardware accelerator:** GPU (selected). A red arrow points to the "GPU" option in the dropdown menu.
- Runtime shape:** Standard (selected).
- ☐ Background execution
- ☐ Want your notebook to keep running even after you close your browser? [Upgrade to Colab Pro+](#)
- ☐ Omit code cell output when saving this notebook

The background of the notebook shows a neural network diagram with nodes and connections, and the word "DeepWonder" is visible in the top left corner of the notebook area.

Install key dependencies

- ▼ **1. Install Deepwonder and dependencies**

- ▼ **1.1. Install key dependencies**

- ▶ Install deepwonder and dependencies



[Show code](#)

Check whether you have GPU access

▼ 2. Check GPU and Google Drive

+ Code

+ Text

▼ 2.1. Check for GPU access

By default, the session should be using Python 3 and GPU acceleration, but it is possible to ensure that these are set properly by doing the following:

Go to **Runtime** -> **Change the Runtime type**

Runtime type: Python 3 *(Python 3 is programming language in which this program is written)*

Accelerator: GPU *(Graphics processing unit)*

▶ Run this cell to check if you have GPU access

Show code

Check whether you have GPU access

2. Check GPU and Google Drive

▼ 2.1. Check for GPU access

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Runtime type: Python 3 (*Python 3 is programming language in which this program is written*)

Accelerator: GPU (*Graphics processing unit*)

▶ Run this cell to check if you have GPU access

[Show code](#)

You have GPU access
Thu Dec 23 11:36:06 2021

NVIDIA-SMI 495.44				Driver Version: 460.32.03		CUDA Version: 11.2	
GPU	Name	Persistence-M	Bus-Id	Disp.A	Volatile	Uncorr. ECC	
Fan	Temp	Perf	Pwr:Usage/Cap	Memory-Usage	GPU-Util	Compute M.	MIG M.
0	Tesla P100-PCIE...	Off	00000000:00:04.0	Off			0
N/A	39C	P0	34W / 250W	369MiB / 16280MiB	1%	Default	N/A

Processes:						
GPU	GI	CI	PID	Type	Process name	GPU Memory Usage
	ID	ID				
No running processes found						


Mount your Google Drive

2.2 Mount your Google Drive

To use this notebook on the data present in your Google Drive, you need to mount your Google Drive to this notebook.

Play the cell below to mount your Google Drive and follow the link. In the new browser window, select your drive and select 'Allow', copy the code, paste into the cell and press enter. This will give Colab access to the data on the drive.

Once this is done, your data are available in the **Files** tab on the top left of notebook.

 Play the cell to connect your Google Drive to Colab

- Click on the URL.
- Sign in your Google Account.
- Copy the authorization code.
- Enter the authorization code.
- Click on "Files" site on the right. Refresh the site. Your Google Drive folder should now be available here as "drive".

[Show code](#)

Mount your Google Drive

Mount your Google Drive

To use this notebook on the data present in your Google Drive, you need to mount your Google Drive to this notebook.

Click on the URL below to mount your Google Drive and follow the link. In the new browser window, select your drive and select the folder you want to share. Copy the code, paste into the cell and press enter. This will give Colab access to the data on the drive.

Once this is done, your data are available in the **Files** tab on the top left of notebook.

Click on the URL.

Sign in your Google account.

Copy the authorization code.

Enter the authorization code.

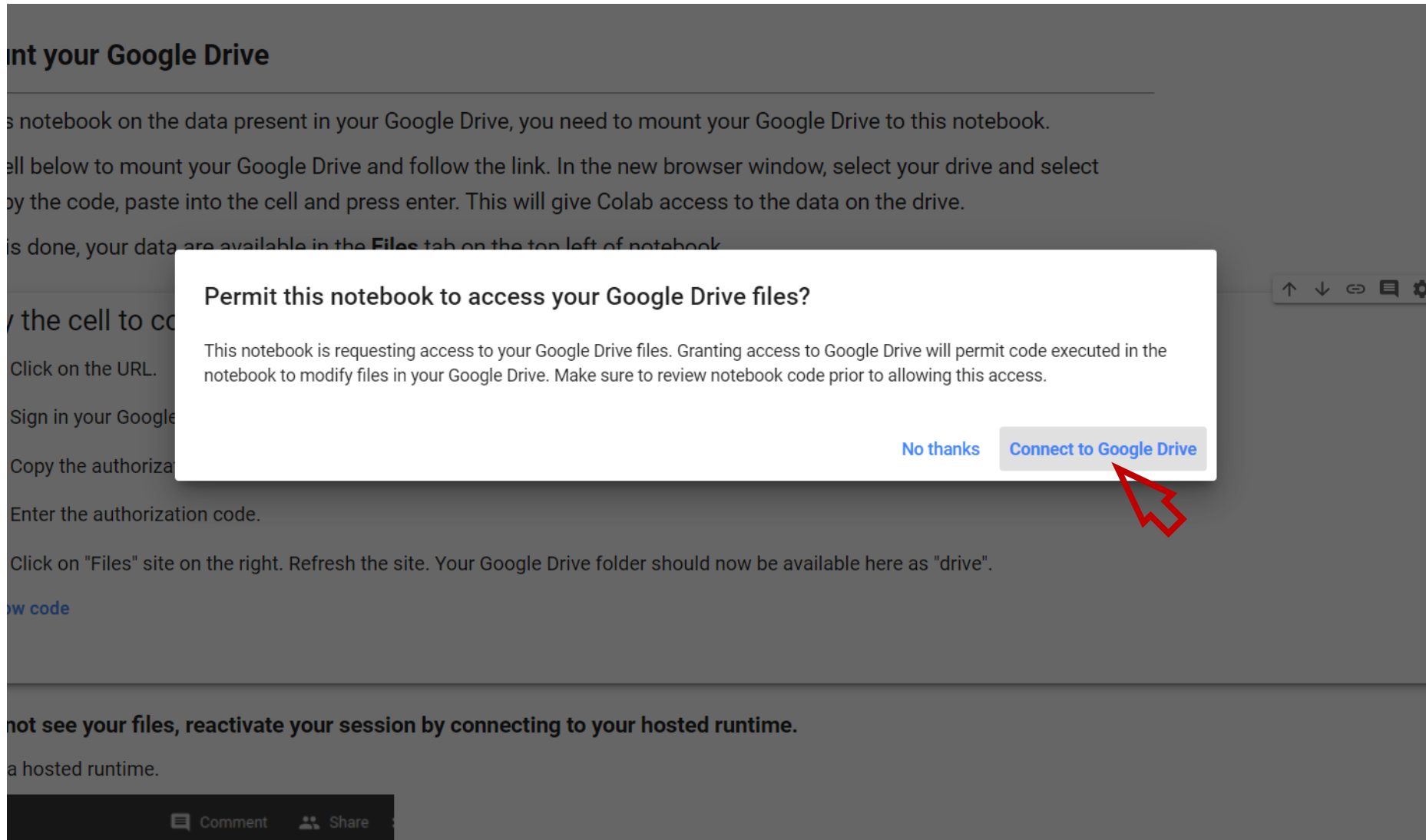
Click on "Files" site on the right. Refresh the site. Your Google Drive folder should now be available here as "drive".

[View code](#)

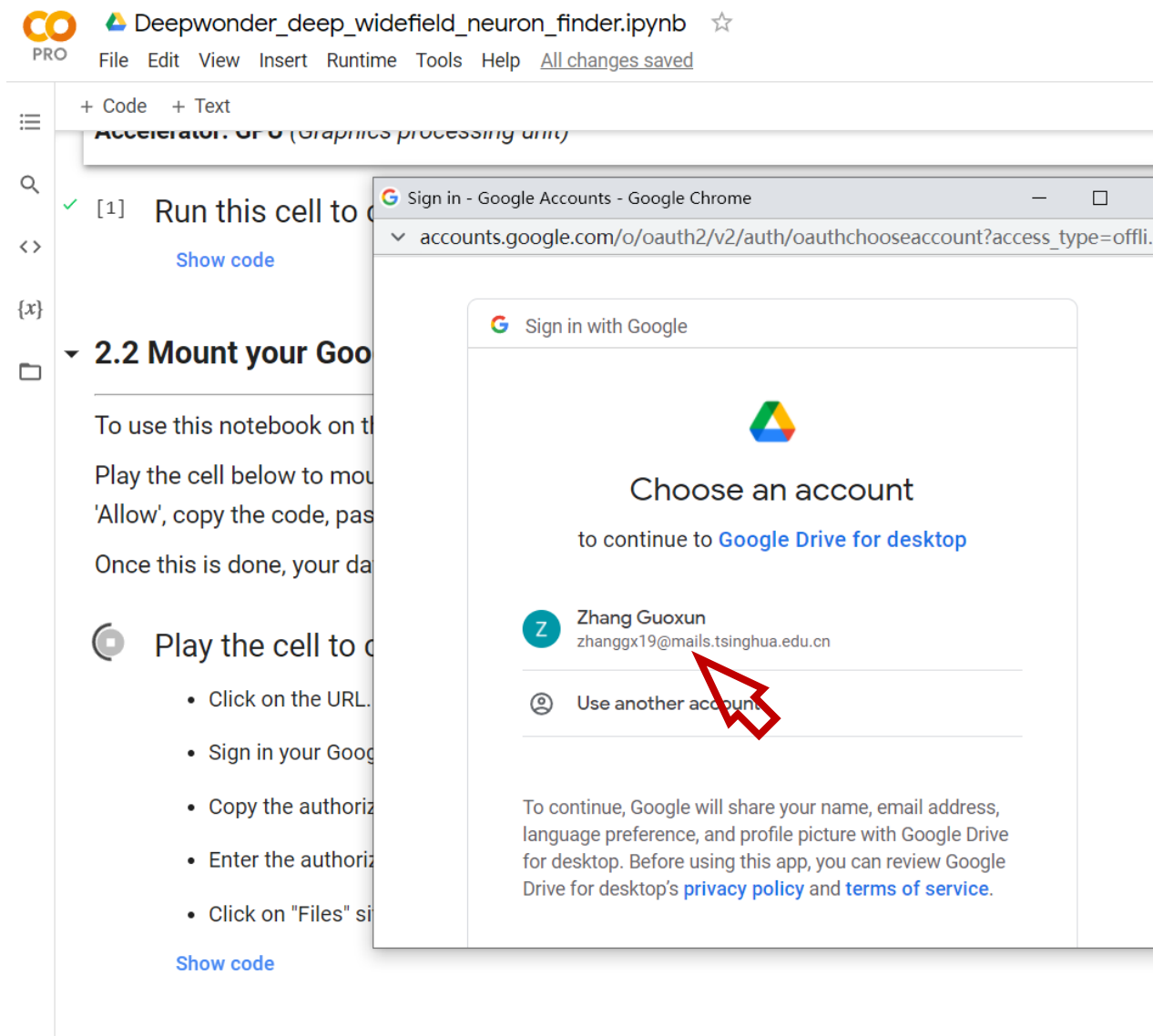
If you do not see your files, reactivate your session by connecting to your hosted runtime.

Connect to Google Drive

Comment Share



Mount your Google Drive



The screenshot shows a Jupyter Notebook interface with a file named "Deepwonder_deep_widefield_neuron_finder.ipynb". The notebook has a code cell with the text "Run this cell to" and a "Show code" link. Below the code cell, there is a section titled "2.2 Mount your Google Drive" with instructions on how to mount the drive. A Google Drive authorization window is overlaid on the notebook, showing the "Sign in with Google" prompt. The window displays the Google Drive logo and the text "Choose an account to continue to Google Drive for desktop". Below this, there is a list of accounts, with "Zhang Guoxun" (zhanggx19@mails.tsinghua.edu.cn) selected. A red arrow points to the "Use another account" link. The window also includes a privacy policy and terms of service link.

Deepwonder_deep_widefield_neuron_finder.ipynb

File Edit View Insert Runtime Tools Help All changes saved

+ Code + Text

Accelerator: GPU (Graphics processing unit)

[1] Run this cell to

Show code

2.2 Mount your Google Drive

To use this notebook on the cloud, you need to mount your Google Drive. Play the cell below to mount the drive. Once this is done, your data will be available in the notebook.

Play the cell to

- Click on the URL.
- Sign in your Google account.
- Copy the authorization code.
- Enter the authorization code in the notebook.
- Click on "Files" sidebar.

Show code

Sign in - Google Accounts - Google Chrome

accounts.google.com/o/oauth2/v2/auth/oauthchooseaccount?access_type=offli..

Sign in with Google

Choose an account

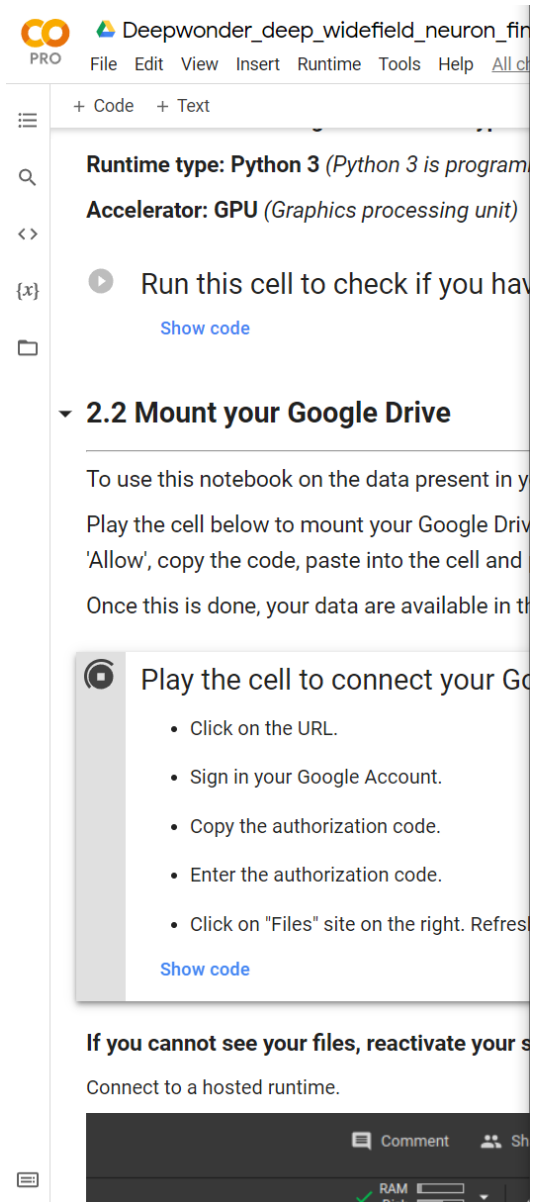
to continue to Google Drive for desktop

Zhang Guoxun
zhanggx19@mails.tsinghua.edu.cn

Use another account

To continue, Google will share your name, email address, language preference, and profile picture with Google Drive for desktop. Before using this app, you can review Google Drive for desktop's [privacy policy](#) and [terms of service](#).

Mount your Google Drive



Deepwonder_deep_widefield_neuron_fin

File Edit View Insert Runtime Tools Help All of

+ Code + Text

Runtime type: Python 3 (Python 3 is program)

Accelerator: GPU (Graphics processing unit)

Run this cell to check if you have

Show code

2.2 Mount your Google Drive

To use this notebook on the data present in your Google Drive, you need to mount your Google Drive to this notebook. Play the cell below to mount your Google Drive. After you click 'Allow', copy the code, paste into the cell and run it. Once this is done, your data are available in the file browser on the left.

Play the cell to connect your Google Drive

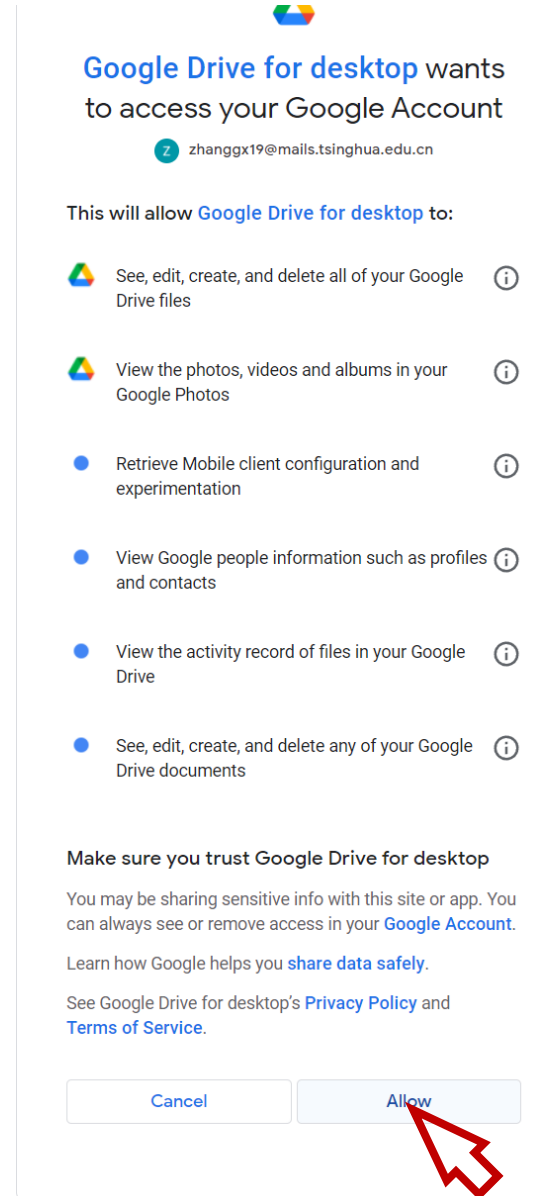
- Click on the URL.
- Sign in your Google Account.
- Copy the authorization code.
- Enter the authorization code.
- Click on "Files" site on the right. Refresh the page.

Show code

If you cannot see your files, reactivate your connection to a hosted runtime.

Comment Share

RAM Disk



Google Drive for desktop wants to access your Google Account

zhanggx19@mails.tsinghua.edu.cn

This will allow Google Drive for desktop to:

- See, edit, create, and delete all of your Google Drive files
- View the photos, videos and albums in your Google Photos
- Retrieve Mobile client configuration and experimentation
- View Google people information such as profiles and contacts
- View the activity record of files in your Google Drive
- See, edit, create, and delete any of your Google Drive documents

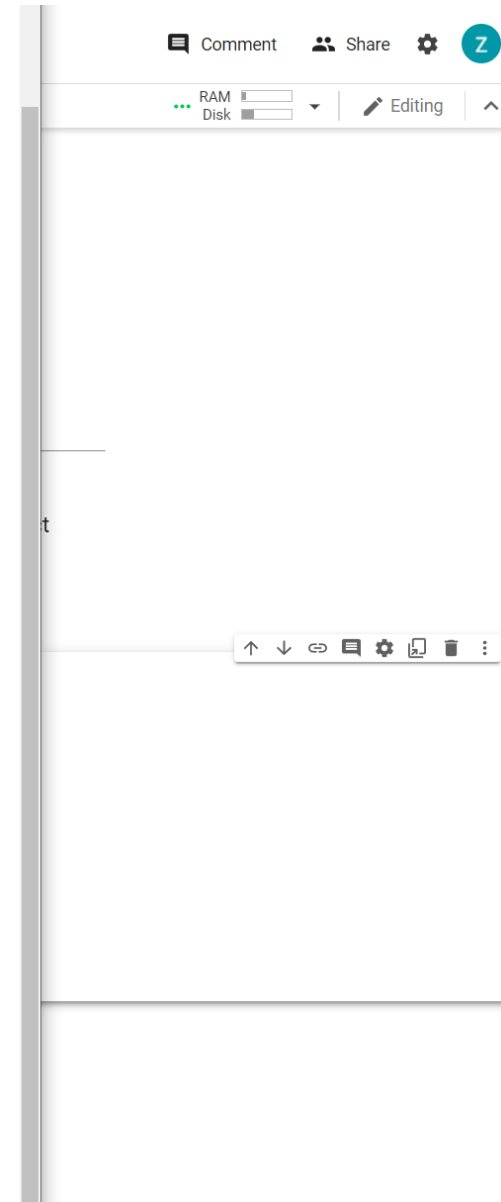
Make sure you trust Google Drive for desktop

You may be sharing sensitive info with this site or app. You can always see or remove access in your [Google Account](#).

Learn how Google helps you [share data safely](#).

See Google Drive for desktop's [Privacy Policy](#) and [Terms of Service](#).

Cancel Allow



Comment Share Settings

RAM Disk

Editing

Up Down Link Comment Settings Copy Paste Delete More

Set the datasets path

The screenshot shows the Google Colab interface. On the left, the 'Files' sidebar is open, displaying a directory tree. A red arrow labeled '1' points to the 'Deepwonder_datasets' folder. Another red arrow labeled '2' points to the 'Copy path' option in the context menu. A third red arrow labeled '3' points to the 'datasets_path' input field in the code editor.

Deepwonder_deep_widefield_neuron_finder.ipynb ☆

File Edit View Insert Runtime Tools Help [All changes saved](#)

Comment Share Settings Z

RAM Disk Editing ^

3. Run DeepWonder

Path of removing background network model:

RMBG_model_folder: `"/content/drive/MyDrive/Colab_Notebooks/Deepwonder_model/RMBG_model/arr_202110011541"`

Name of removing background network model:

RMBG_model_name: `"E_30_iter_4009"`

Path of neuron segmentation network model:

SEG_model_folder: `"/content/drive/MyDrive/Colab_Notebooks/Deepwonder_model/SEG_model/TS3DUnetFFD_20211129_1355"`

Name of neuron segmentation network model:

SEG_model_name: `"seg_30"`

Path of datasets:

datasets_path: `"/content/drive/MyDrive/Colab_Notebooks/Deepwonder_datasets"`

Folder name of datasets:

datasets_folder: `"1"`

Path of output folder:

output_path: `"/content/drive/MyDrive/Colab_Notebooks/Deepwonder_results"`

The number of image for testing:

test_datasize: `20000`

The index of GPU:

GPU: `0`

If Use GPU

If_Use_GPU: ☒

[Show code](#)

Disk 120.13 GB available

Set the datasets folder

The screenshot displays the Google Colab environment. On the left, the 'Files' panel shows a directory tree under 'gdrive/MyDrive/Colab Notebooks/Colab_Notebooks/Deepwonder_datasets/1'. The 'Demo_data' folder is selected, indicated by a red arrow labeled '1'. The main code editor on the right contains the following configuration parameters:

```

Path of removing background network model:
RMBG_model_folder: "/content/gdrive/MyDrive/Colab_Notebooks/Deepwonder_model/RMBG_model/arr_202110011541

Name of removing background network model:
RMBG_model_name: "E_30_iter_4009

Path of neuron segmentation network model:
SEG_model_folder: "/content/gdrive/MyDrive/Colab_Notebooks/Deepwonder_model/SEG_model/TS3DUnetFFD_20211129_1355

Name of neuron segmentation network model:
SEG_model_name: "seg_30

Path of datasets:
datasets_path: "/content/gdrive/MyDrive/Colab_Notebooks/Deepwonder_datasets

Folder name of datasets:
datasets_folder: "Demo_data

Path of output folder:
output_path: "/content/gdrive/MyDrive/Colab_Notebooks/Deepwonder_results

The number of image for testing:
test_datasize: 20000

The index of GPU:
GPU: 0

If Use GPU
If_Use_GPU: ☒

Show code

```

A red arrow labeled '2' points to the 'output_path' parameter, which is set to '/content/gdrive/MyDrive/Colab_Notebooks/Deepwonder_results'. The bottom status bar indicates the execution is completed at 4:31 PM.

Set the background removing model path

Deepwonder_deep_widefield_neuron_finder.ipynb ☆

File Edit View Insert Runtime Tools Help Save failed

Comment Share Settings

RAM Disk Editing

Files

- gdrive
 - MyDrive
 - Colab Notebooks
 - Colab Notebooks
 - Deepwonder_datasets
 - Deepwonder_img
 - Deepwonder_model
 - RMBG_model
 - arr_202110011541

1

2

3

Path of removing background network model:

RMBG_model_folder: "/content/gdrive/MyDrive/Colab_Notebooks/Deepwonder_model/RMBG_model/arr_202110011541"

Name of removing background network model:

RMBG_model_name: "E_30_iter_4009"

3

Path of neuron segmentation network model:

SEG_model_folder: "/content/gdrive/MyDrive/Colab_Notebooks/Deepwonder_model/SEG_model/TS3DUnetFFD_20211129_1355"

Name of neuron segmentation network model:

SEG_model_name: "seg_30"

Path of datasets:

datasets_path: "/content/gdrive/MyDrive/Colab_Notebooks/Deepwonder_datasets"

Folder name of datasets:

datasets_folder: "Demo_data"

Path of output folder:

output_path: "/content/gdrive/MyDrive/Colab_Notebooks/Deepwonder_results"

The number of image for testing:

test_datasize: 20000

The index of GPU:

GPU: 0

If Use GPU

If_Use_GPU: ☒

Show code

Set the background removing model name

The screenshot shows the Google Colab web interface. On the left is a file explorer pane titled "Files". It displays a directory tree starting from "gdrive" down to "MyDrive", "Colab Notebooks", "Colab_Notebooks", "Deepwonder_datasets", "Deepwonder_img", "Deepwonder_model", "RMBG_model", and finally "arr_202110011541". Inside this folder, there are files like "E_30_iter_4009.pth" (highlighted), "loss.txt", and "para.yaml". A tooltip for "E_30_iter_4009.pth" shows its size as 15.58M and last modified date as Dec 15 2021. The main area on the right is a code editor with a light gray background. It contains several configuration parameters for training or testing, each preceded by a label: "Path of removing background network model:", "Name of removing background network model:", "Path of neuron segmentation network model:", "Name of neuron segmentation network model:", "datasets_path:", "Folder name of datasets:", "Path of output folder:", "The number of image for testing:", "The index of GPU:", and "If Use GPU:". Each parameter has a corresponding value assigned in quotes or as a variable. Red arrows point from the file explorer to the code editor: one points from "E_30_iter_4009.pth" to "seg_30" under "SEG_model_name", and another points from "para.yaml" to "E_30_iter_4009.pth" under "RMBG_model_folder". There are also red numbers "1" and "2" near these arrows.

Set the neuron segmentation model path

Deepwonder_deep_widefield_neuron_finder.ipynb

File Edit View Insert Runtime Tools Help Save failed

RAM Disk

Editing

Files

- gdrive
 - MyDrive
 - Colab Notebooks
 - Colab Notebooks
 - Deepwonder_datasets
 - Deepwonder_img
 - Deepwonder_model
 - RMBG_model
 - arr_202110011541
 - E_30_iter_4009...
 - loss.txt
 - para.yaml
 - demo_trained_mo...
 - SEG_model
 - TS3DUnetFFD_20211129_1355

sample_data

Path of removing background network model:

RMBG_model_folder: "/content/gdrive/MyDrive/Colab_Notebooks/Deepwonder_model/RMBG_model/arr_202110011541"

Name of removing background network model:

RMBG_model_name: "E_30_iter_4009"

Path of neuron segmentation network model:

SEG_model_folder: "/content/gdrive/MyDrive/Colab_Notebooks/Deepwonder_model/SEG_model/TS3DUnetFFD_20211129_1355"

Name of neuron segmentation network model:

SEG_model_name: "seg_30"

Path of datasets:

datasets_path: "/content/gdrive/MyDrive/Colab_Notebooks/Deepwonder_datasets"

Folder name of datasets:

datasets_folder: "Demo_data"

Path of output folder:

output_path: "/content/gdrive/MyDrive/Colab_Notebooks/Deepwonder_results"

Number of image for testing:

test_datasize: 20000

GPU index of GPU:

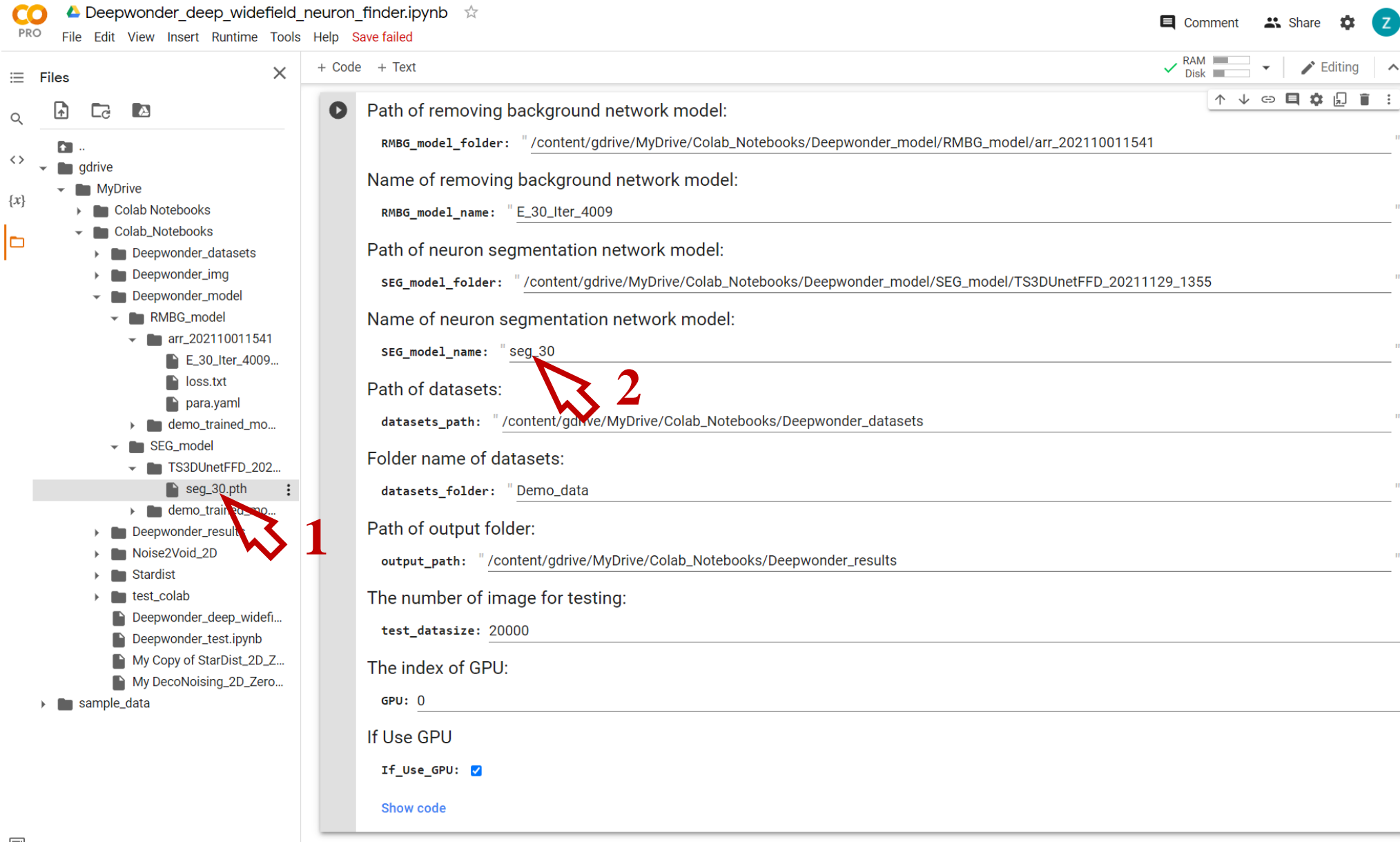
GPU: 0

If Use GPU

If_Use_GPU: ☒

Show code

Set the neuron segmentation model name



The screenshot displays a Google Colab notebook titled "Deepwonder_deep_widefield_neuron_finder.ipynb". The left sidebar shows a file explorer with a directory structure under "gdrive/MyDrive/Colab Notebooks/Colab_Notebooks/Deepwonder_model". The "RMBG_model" folder is expanded, showing subfolders "arr_202110011541" and "E_30_iter_4009...". The file "seg_30.pth" is highlighted, with a red arrow and the number "1" pointing to it.

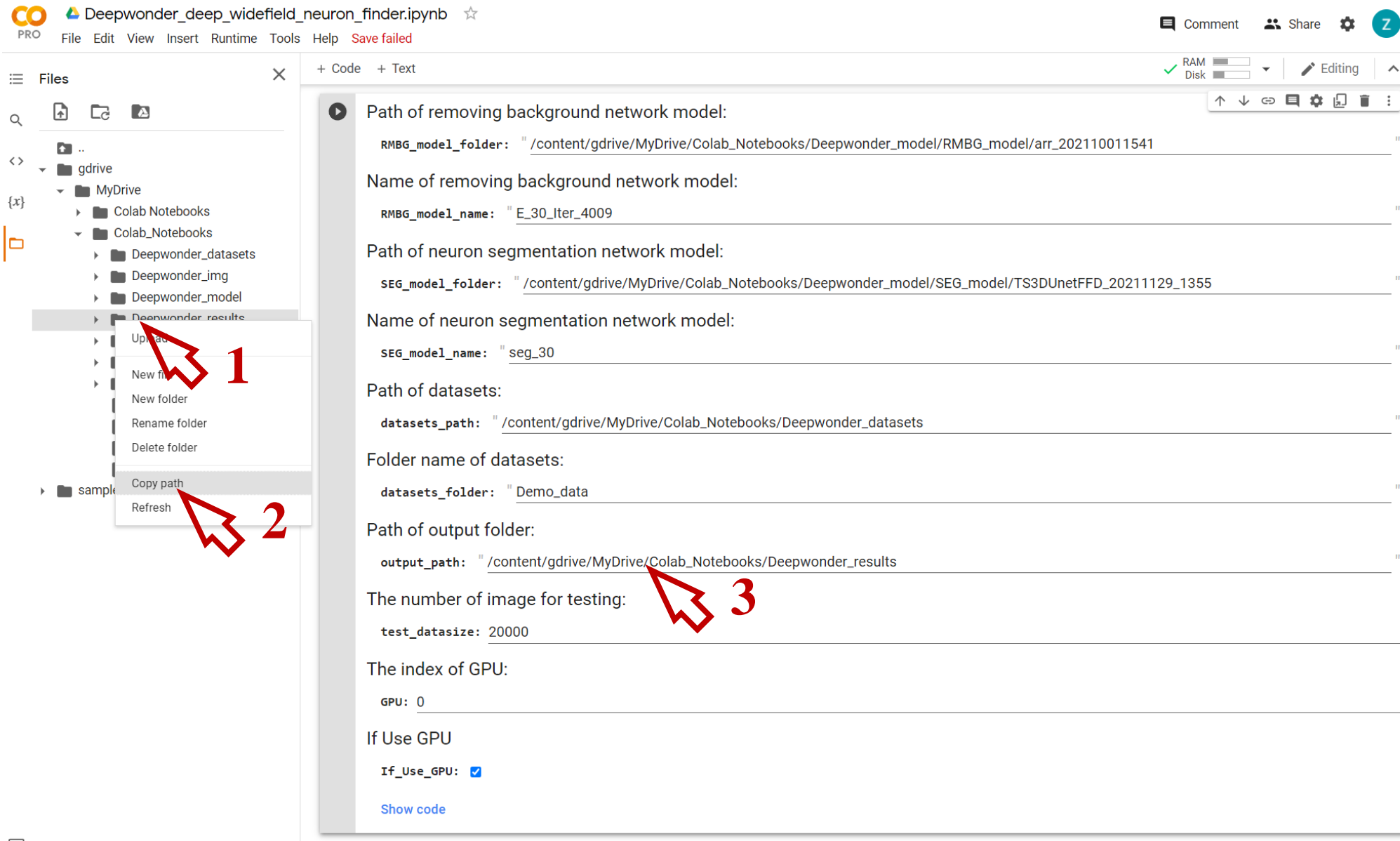
The main code editor area contains the following configuration parameters:

- Path of removing background network model:
`RMBG_model_folder: "/content/gdrive/MyDrive/Colab_Notebooks/Deepwonder_model/RMBG_model/arr_202110011541"`
- Name of removing background network model:
`RMBG_model_name: "E_30_iter_4009"`
- Path of neuron segmentation network model:
`SEG_model_folder: "/content/gdrive/MyDrive/Colab_Notebooks/Deepwonder_model/SEG_model/TS3DUnetFFD_20211129_1355"`
- Name of neuron segmentation network model:
`SEG_model_name: "seg_30"`
- Path of datasets:
`datasets_path: "/content/gdrive/MyDrive/Colab_Notebooks/Deepwonder_datasets"`
- Folder name of datasets:
`datasets_folder: "Demo_data"`
- Path of output folder:
`output_path: "/content/gdrive/MyDrive/Colab_Notebooks/Deepwonder_results"`
- The number of image for testing:
`test_datasize: 20000`
- The index of GPU:
`GPU: 0`
- If Use GPU:
`If_Use_GPU: ☒`

A red arrow and the number "2" point to the "seg_30" value in the "SEG_model_name" field.

At the bottom left, there is a "Show code" link.

Set the results path



PRO File Edit View Insert Runtime Tools Help Save failed

RAM Disk Editing

Files

- gdrive
 - MyDrive
 - Colab Notebooks
 - Colab_Notebooks
 - Deepwonder_datasets
 - Deepwonder_img
 - Deepwonder_model
 - Deepwonder_results
 - Upload
 - New file
 - New folder
 - Rename folder
 - Delete folder
 - Copy path
 - Refresh

sample

Path of removing background network model:

RMBG_model_folder: "/content/gdrive/MyDrive/Colab_Notebooks/Deepwonder_model/RMBG_model/arr_202110011541"

Name of removing background network model:

RMBG_model_name: "E_30_iter_4009"

Path of neuron segmentation network model:

SEG_model_folder: "/content/gdrive/MyDrive/Colab_Notebooks/Deepwonder_model/SEG_model/TS3DUnetFFD_20211129_1355"

Name of neuron segmentation network model:

SEG_model_name: "seg_30"

Path of datasets:

datasets_path: "/content/gdrive/MyDrive/Colab_Notebooks/Deepwonder_datasets"

Folder name of datasets:

datasets_folder: "Demo_data"

Path of output folder:

output_path: "/content/gdrive/MyDrive/Colab_Notebooks/Deepwonder_results"

The number of image for testing:

test_datasize: 20000

The index of GPU:

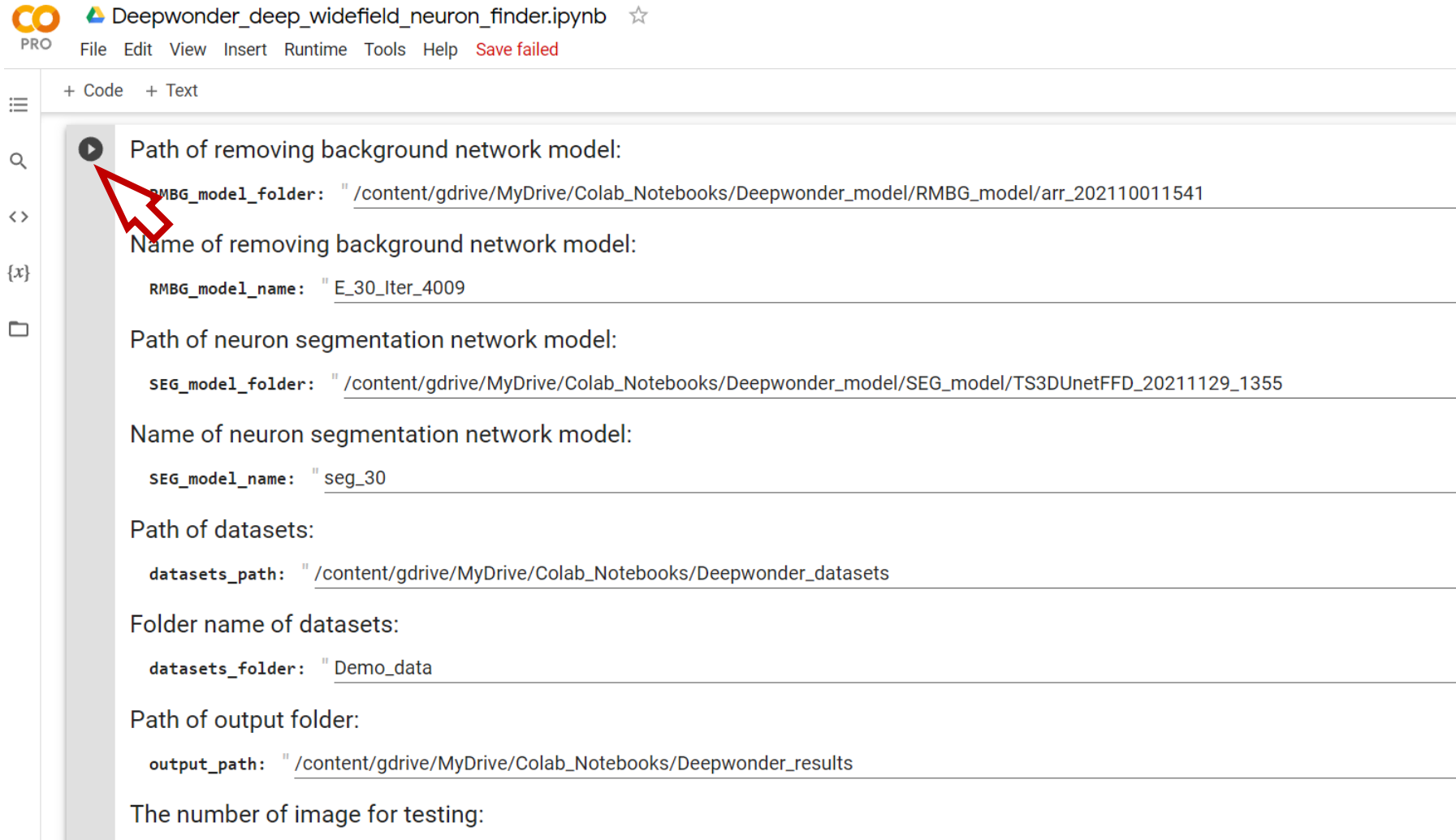
GPU: 0

If Use GPU

If_Use_GPU: ☒

Show code

Run the code



The screenshot shows a Google Colab notebook titled "Deepwonder_deep_widefield_neuron_finder.ipynb". The interface includes a top menu bar with options like File, Edit, View, Insert, Runtime, Tools, Help, and a "Save failed" status. Below the menu, there are tabs for "+ Code" and "+ Text". On the left side, there is a sidebar with icons for file management and search. The main area displays a code cell with the following content:

```
▶ Path of removing background network model:  
RMBG_model_folder: "/content/gdrive/MyDrive/Colab_Notebooks/Deepwonder_model/RMBG_model/arr_202110011541"  
  
Name of removing background network model:  
RMBG_model_name: "E_30_iter_4009"  
  
Path of neuron segmentation network model:  
SEG_model_folder: "/content/gdrive/MyDrive/Colab_Notebooks/Deepwonder_model/SEG_model/TS3DUnetFFD_20211129_1355"  
  
Name of neuron segmentation network model:  
SEG_model_name: "seg_30"  
  
Path of datasets:  
datasets_path: "/content/gdrive/MyDrive/Colab_Notebooks/Deepwonder_datasets"  
  
Folder name of datasets:  
datasets_folder: "Demo_data"  
  
Path of output folder:  
output_path: "/content/gdrive/MyDrive/Colab_Notebooks/Deepwonder_results"  
  
The number of image for testing:
```

A red arrow points to the play button icon (▶) at the start of the first line of code, indicating where to click to run the cell.