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Running: obj.modelExtractSignalsFromMovie

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Error using dir

Characters adjacent to a ** wildcard must be file separators.

Error in ciatah/modelExtractSignalsFromMovie/getAlgorithmRootPath (line 474)

```
foundFiles = dir(fullfile([obj.externalProgramsDir], ['**\ algorithmFile
']));
```

Error in ciatah/modelExtractSignalsFromMovie (line 90)

```
getAlgorithmRootPath('extractor.m','EXTRACT',obj,0);
```

Error in ciatah/runPipeline (line 202)

```
obj.(thisFxn{1});
```

Error in ciatah/display (line 6)

```
obj.runPipeline;
```

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/Users/Bing/Documents/GitHub/ciatah

/Users/Bing/Documents/GitHub/ciatah/_external_programs

/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app

/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/Contents

/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/Contents/MacOS

/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/Contents/Resources

/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/images

/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/images/about

/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/jars

/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/jars/bio-formats

/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/java

/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/java/macosx-java3d

/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/java/macosx-java3d/

Home

/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/java/macosx-java3d/

Home/lib

/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/java/macosx-java3d/

Home/lib/ext

/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/luts

/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/macros

/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/macros/AutoRun

/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/macros/toolsets

/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/plugins

/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/plugins/Analyze

/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/plugins/Examples

/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/plugins/Examples/

Command_Launchers

/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/plugins/Examples/

CoverMaker

/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/plugins/Examples/

TrakEM2_Example_Scripts

/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/plugins/JRuby

/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/plugins/Macros
/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/plugins/Scripts
/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/plugins/Scripts/File
/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/plugins/Scripts/File/
Open_Samples
/Users/Bing/Documents/GitHub/ciatah/_external_programs/Fiji.app/plugins/Scripts/
Image
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Image/Adjust
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Plugins/Utilities
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2016_CSHL_Imaging
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2017_CajalCourse
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outdated
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outdated/live scripts
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/Users/Bing/Documents/GitHub/ciatah/ciapkg/tracking
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/Users/Bing/Documents/GitHub/ciatah/file_exchange/BinaryFisherLDA_v2.0
/Users/Bing/Documents/GitHub/ciatah/file_exchange/DataDensity

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FMINSEARCHBND/demo
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eb40902/demos
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/Users/Bing/Documents/GitHub/ciatah/file_exchange/dirrec

/Users/Bing/Documents/GitHub/ciatah/file_exchange/dispstat
/Users/Bing/Documents/GitHub/ciatah/file_exchange/distributionPlot
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/Users/Bing/Documents/GitHub/ciatah/file_exchange/export_fig
/Users/Bing/Documents/GitHub/ciatah/file_exchange/fieldnamesr
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/Users/Bing/Documents/GitHub/ciatah/file_exchange/finput
/Users/Bing/Documents/GitHub/ciatah/file_exchange/fn_structdisp
/Users/Bing/Documents/GitHub/ciatah/file_exchange/fwhm
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/Users/Bing/Documents/GitHub/ciatah/file_exchange/group_equally
/Users/Bing/Documents/GitHub/ciatah/file_exchange/hexscatter
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file_exchange/binned_plot:/Users/Bing/Documents/GitHub/ciatah/file_exchange/
densityplot:/Users/Bing/Documents/GitHub/ciatah/file_exchange/deptoolbox:/Users/
Bing/Documents/GitHub/ciatah/file_exchange/dirrec:/Users/Bing/Documents/GitHub/
ciatah/file_exchange/dispstat:/Users/Bing/Documents/GitHub/ciatah/file_exchange/
distributionPlot:/Users/Bing/Documents/GitHub/ciatah/file_exchange/distributionPlot/
distributionPlot:/Users/Bing/Documents/GitHub/ciatah/file_exchange/
efficient_subpixel_registration:/Users/Bing/Documents/GitHub/ciatah/file_exchange/
efficient_subpixel_registration/html:/Users/Bing/Documents/GitHub/ciatah/
file_exchange/export_fig:/Users/Bing/Documents/GitHub/ciatah/file_exchange/
fieldnamesr:/Users/Bing/Documents/GitHub/ciatah/file_exchange/filtering:/Users/Bing/
Documents/GitHub/ciatah/file_exchange/findjobj:/Users/Bing/Documents/GitHub/ciatah/
file_exchange/finput:/Users/Bing/Documents/GitHub/ciatah/file_exchange/fn_structdisp:/
Users/Bing/Documents/GitHub/ciatah/file_exchange/fwhm:/Users/Bing/Documents/
GitHub/ciatah/file_exchange/gaussianbpf:/Users/Bing/Documents/GitHub/ciatah/
file_exchange/ginputc:/Users/Bing/Documents/GitHub/ciatah/file_exchange/
group_equally:/Users/Bing/Documents/GitHub/ciatah/file_exchange/hexscatter:/Users/
Bing/Documents/GitHub/ciatah/file_exchange/imoverlay:/Users/Bing/Documents/
GitHub/ciatah/file_exchange/imoverlay/__MACOSX:/Users/Bing/Documents/GitHub/
ciatah/file_exchange/jsonlab-1.5:/Users/Bing/Documents/GitHub/ciatah/file_exchange/
jsonlab-1.5/examples:/Users/Bing/Documents/GitHub/ciatah/file_exchange/kakearney-
plotboxpos-pkg-96927f2:/Users/Bing/Documents/GitHub/ciatah/file_exchange/
kakearney-plotboxpos-pkg-96927f2/plotboxpos:/Users/Bing/Documents/GitHub/ciatah/
file_exchange/kakearney-plotboxpos-pkg-96927f2/readmeExtras:/Users/Bing/
Documents/GitHub/ciatah/file_exchange/m2html:/Users/Bing/Documents/GitHub/ciatah/
file_exchange/m2html/templates:/Users/Bing/Documents/GitHub/ciatah/file_exchange/
m2html/templates/3frames:/Users/Bing/Documents/GitHub/ciatah/file_exchange/
m2html/templates/blue:/Users/Bing/Documents/GitHub/ciatah/file_exchange/m2html/
templates/brain:/Users/Bing/Documents/GitHub/ciatah/file_exchange/m2html/templates/
frame:/Users/Bing/Documents/GitHub/ciatah/file_exchange/mmread:/Users/Bing/
Documents/GitHub/ciatah/file_exchange/movingstat:/Users/Bing/Documents/GitHub/
ciatah/file_exchange/natsortfiles:/Users/Bing/Documents/GitHub/ciatah/file_exchange/
natsortfiles/html:/Users/Bing/Documents/GitHub/ciatah/file_exchange/
ndSparse_G3_2013_03_13:/Users/Bing/Documents/GitHub/ciatah/file_exchange/
ndhist:/Users/Bing/Documents/GitHub/ciatah/file_exchange/oopsi-master:/Users/Bing/
Documents/GitHub/ciatah/file_exchange/parfor_progress:/Users/Bing/Documents/
GitHub/ciatah/file_exchange/plotboxpos-pkg-master:/Users/Bing/Documents/GitHub/

ciatah/file_exchange/plotboxpos-pkg-master/plotboxpos:/Users/Bing/Documents/
GitHub/ciatah/file_exchange/plotboxpos-pkg-master/readmeExtras:/Users/Bing/
Documents/GitHub/ciatah/file_exchange/pulldown:/Users/Bing/Documents/GitHub/
ciatah/file_exchange/readBigTiffStack:/Users/Bing/Documents/GitHub/ciatah/
file_exchange/reorderableListbox_1.1.1:/Users/Bing/Documents/GitHub/ciatah/
file_exchange/rotateXLabels:/Users/Bing/Documents/GitHub/ciatah/file_exchange/
rrcode:/Users/Bing/Documents/GitHub/ciatah/file_exchange/saveastiff_4.4:/Users/Bing/
Documents/GitHub/ciatah/file_exchange/savemultfigs:/Users/Bing/Documents/GitHub/
ciatah/file_exchange/sigm_fit:/Users/Bing/Documents/GitHub/ciatah/file_exchange/
simbin:/Users/Bing/Documents/GitHub/ciatah/file_exchange/subaxis:/Users/Bing/
Documents/GitHub/ciatah/file_exchange/tight_subplot:/Users/Bing/Documents/GitHub/
ciatah/file_exchange/tightfig:/Users/Bing/Documents/GitHub/ciatah/file_exchange/
vectCircShift:/Users/Bing/Documents/GitHub/ciatah/file_exchange/venn:/Users/Bing/
Documents/GitHub/ciatah/file_exchange/vennX:/Users/Bing/Documents/GitHub/ciatah/
file_exchange/violin:/Users/Bing/Documents/GitHub/ciatah/file_exchange/
wildcardsearch:/Users/Bing/Documents/GitHub/ciatah/file_exchange/xml2struct:

=====

Subject: m01

###

Getting movie info for 1\1: /Users/Bing/Documents/GitHub/ciatah/data/

2021_04_08_p001_m01_exp01_trial01/2021_04_08_p001_m01_NULL000_strpRm_sp

FltBfReg_treg_crop_fxFrms_dfof_dsTime_1.h5

loading chunk | offset: 0 0 1 | block: 240 316 1

movie size: 0.28931Mb | 240 316 | single

checking movies: 100|

ans =

1x1 cell array

{[500]}

ans =

1x1 cell array

{[1]}

pre-allocating single NaN matrix...

loading 1/1: /Users/Bing/Documents/GitHub/ciatah/data/

2021_04_08_p001_m01_exp01_trial01/2021_04_08_p001_m01_NULL000_strpRm_sp

FltBfReg_treg_crop_fxFrms_dfof_dsTime_1.h5

loading movie as contiguous chunk: 0 0 0 | 240 316 500

loading chunk | offset: 0 0 0 | block: 240 316 500

movie size: 144.6533Mb | 240 316 500 | single

movie class: single

movie size: 240 316 500

x-dims: 240

y-dims: 316

z-dims: 500

movie size: 144.6533Mb | 240 316 500 | single

Elapsed time is 1.233757 seconds.

###

=====

Subject: m01

Warning: Cannot set Position while

WindowStyle is 'docked'

> In imcontrast>createHistogramPalette (line 196)

In imcontrast (line 135)

In ciatah/modelExtractSignalsFromMovie/subfxnSignalSizeSpacing (line 1946)

In ciatah/modelExtractSignalsFromMovie (line 184)

In ciatah/runPipeline (line 202)

In ciatah/display (line 6)

Warning: Cannot set Position while

WindowStyle is 'docked'

> In imcontrast>createHistogramPalette (line 239)

In imcontrast (line 135)

In ciatah/modelExtractSignalsFromMovie/subfxnSignalSizeSpacing (line 1946)

In ciatah/modelExtractSignalsFromMovie (line 184)

In ciatah/runPipeline (line 202)

In ciatah/display (line 6)

gridWidth:

m01: 8

gridSpacing:

m01: 10

=====

1/1 (1/1): m01 NULL000

EXTRACT

saving temporary: /Users/Bing/Documents/GitHub/ciatah/data/

2021_04_08_p001_m01_exp01_trial01/2021_04_08_p001_m01_NULL000_extractAnalysis.mat

###

Getting movie info for 1\1: /Users/Bing/Documents/GitHub/ciatah/data/

2021_04_08_p001_m01_exp01_trial01/2021_04_08_p001_m01_NULL000_strpRm_sp

FltBfReg_treg_crop_fxFrms_dfof_dsTime_1.h5

loading chunk | offset: 0 0 1 | block: 240 316 1

movie size: 0.28931Mb | 240 316 | single

checking movies: 100|

pre-allocating single NaN matrix...

loading 1/1: /Users/Bing/Documents/GitHub/ciatah/data/

2021_04_08_p001_m01_exp01_trial01/2021_04_08_p001_m01_NULL000_strpRm_sp

FltBfReg_treg_crop_fxFrms_dfof_dsTime_1.h5

movie class: single

movie size: 240 316 12000

x-dims: 240

y-dims: 316

z-dims: 12000
movie size: 3471.6785Mb | 240 316 12000 | single
Elapsed time is 27.568434 seconds.

###

08-Apr-2021 13:53:34: Signal extraction on partition 4 (of 4):
Discarding a [0 px top, 0 px bottom, 0 px left, 0 px right] inactive
movie region.

Estimating the average time constant...
Preprocessing movie...
Finding cells with component-wise EXTRACT...
noise std: 0.0147
minimum magnitude: 0.0176
Step #100, found 95 cells...
Step #200, found 194 cells...
Step #300, found 293 cells...
Step #400, found 392 cells...
Step #500, found 491 cells...
Step #600, found 587 cells...
Step #700, found 682 cells...
Step #800, found 776 cells...
Step #900, found 866 cells...
Step #1000, found 962 cells...
962 cells found after a total of 1000 steps.
Updating S and T with alternating estimation...
S-step # 1: 962 cells (npx:1, npy:1)

@@@@@@@

Undefined function 'graphconncomp' for input arguments of type 'double'.
Error in find_conncomp (line 16)
[s, memberships] = graphconncomp(sparse(A));
Error in remove_redundant/find_excess_components (line 162)
C = find_conncomp(M, corr_threshold, A2);
Error in remove_redundant/get_bad_components (line 129)
[merge, is_T_duplicate] = find_excess_components(T*corr(S_smooth),...
%*(S*S_smooth)
Error in remove_redundant (line 43)
[idx_elim, is_attr_bad, merge] = get_bad_components(metrics, ...
Error in run_extract (line 299)
[classification, is_bad] = remove_redundant(...
Error in extractor (line 201)
[S_this, T_this, summary_this] = run_extract(M_small, config_this);
Error in ciatah/modelExtractSignalsFromMovie/runEXTRACTSignalFinder (line 1483)
outStruct = extractor(inputMovie,extractConfig);
Error in ciatah/modelExtractSignalsFromMovie (line 356)
emOptions = runEXTRACTSignalFinder();
Error in ciatah/runPipeline (line 202)
obj.(thisFxn{1});
Error in ciatah/display (line 6)

```
obj.runPipeline;  
@@@@@@@  
errorList =  
1
```

```
=====  
Error in the following folders: 1  
Re-run after checking below warning tips.  
=====
```

Warning:

```
=====  
Error during cell extraction with "modelExtractSignalsFromMovie". Some  
tips:  
- Make sure REGEXP for finding movie is correct.  
- Make sure folder has files in it and is accessible to MATLAB.  
- Try and avoid running cell extraction of extremely small movies (e.g.  
100x100 movie with 25 frames).  
- Make sure folder added with "modelAddNewFolders" points to an actual  
folder and not a file.  
- CNMF and CNMF-E: check that they are installed under  
"_external_programs" folder.  
- PCA-ICA: make sure there are MORE frames than PCs and ICs requested,  
else PCA-ICA will not run.  
- ROI: make sure you have run a previous cell-extraction method.  
=====
```

```
> In ciatah/modelExtractSignalsFromMovie/subfxnRunWarning (line 435)  
In ciatah/modelExtractSignalsFromMovie (line 430)  
In ciatah/runPipeline (line 202)  
In ciatah/display (line 6)  
MATALB path already has all needed non-private folders under: /Users/Bing/  
Documents/GitHub/ciatah  
Removing unneeded directory from path: extractor.m.  
Miji JAR files already loaded, skipping. If Miji issue, use "resetMiji".
```

Run processing pipeline by typing below (or clicking link) into command window (no semi-colon!):
obj
>>