

User Guide I

Input & Settings

Input Type of Images

☐ Image pixels
 ☒ whole Images

Covariates
of Interest

Load Image
Data

Number of Grids:

Target Quantile:

Optional Input

Initials	h_β	h_x	h_η
<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

Output
Folder

Extract
Distributional
Representation

Run

Pause

Stop

Inference Procedures

Significance Level:

Number of Bootstrap:

Simultaneous Confidence Bands

Hypothesis
Test

idx:

p-value:

Distributional Representation

Regression

Output

User Guide II



Input & Settings

Input Type of Images

☐ Image pixels ☒ whole images

**Covariates
of Interest**

**Load Image
Data**

Number of Grids

Target Quantile

Optional Input

Initials

h_β h_R h_η

Output
Folder

Extract
Distributional
Representation

Run

Pause

Stop



Display Estimators

Inference Procedures

Significance Level

Number of Bootstrap

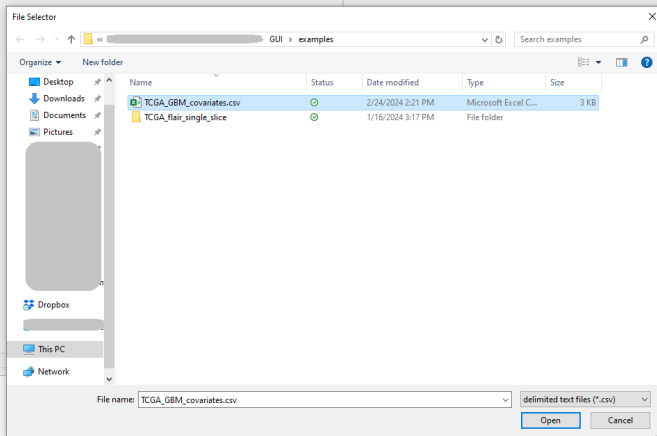
Simultaneous Confidence Bands

Hypothesis
Test

idx
p-value

Distributional Representation

Regression



Output

User Guide III



Input & Settings

Input Type of Images

☐ image pixels ☒ whole images

Covariates
of Interest

Load Image
Data

Number of Grids

100

Target Quantile

0.5

Optional Input

Initials

h_β h_ε h_η

0 0 0

Output
Folder

Extract
Distributional
Representation

Run

Pause

Stop



Display Estimators

Inference Procedures

Significance Level

0.05

Number of Bootstrap

200

Simultaneous Confidence Bands

Hypothesis
Test

idx

1

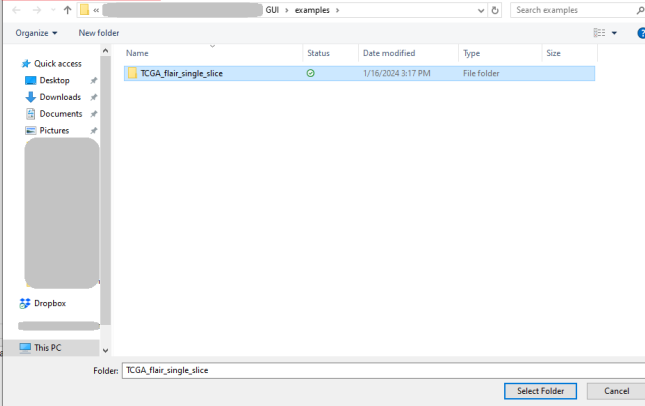
p-value

0

Distributional Representation

Regression

Select Folder for Brain Images & Masks



User Guide IV

DSORM

Input & Settings

Input Type of Images

☐ image pixels ☒ whole images

Covariates of Interest

Load Image Data

Number of Grids

100

Target Quantile

0.5

Optional Input

Initials

h_β h_τ h_η

0 0 0

Output Folder

Extract Distributional Representation

Run

Pause

Stop

Display Estimators

Inference Procedures

Significance Level 0.05

Number of Bootstrap 200

Simultaneous Confidence Bands

Hypothesis Test idx 1 p-value 0

Distributional Representation

Regression

File Selector

GUI > examples >

Search examples

Organize New folder

Desktop

Downloads

Documents

Pictures

Dropbox

This PC

Network

Name	Status	Date modified	Type	Size
results.mat	✓	3/18/2024 8:12 PM	MATLAB Data	4,426 KB
initials.mat	✓	1/31/2024 11:54 AM	MATLAB Data	151 KB
GBM_tumor_image_tau0.5.mat	⚡	5/5/2023 1:41 PM	MATLAB Data	12,640 KB
TCGA_flair_single_slice	✓	1/16/2024 3:17 PM	File folder	

File name: initials.mat

MAT-files (*.mat)

Open Cancel

Output

File for covariates Folder for Brain University/PhD

User Guide V

DSQRM

Input & Settings

Input Type of Images

☐ image pixels ☒ whole images

Covariates of Interest

Load Image Data

Number of Grids

100

Target Quantile

0.5

Optional Input

Initials

h_β h_z h_n

0 0 0

Output Folder

Extract Distributional Representation

Run

Pause

Stop

Display Estimators

Inference Procedures

Significance Level

0.05

Number of Bootstrap

200

Simultaneous Confidence Bands

Hypothesis Test

idx 1

p-value 0

Distributional Representation

Regression

Output

File for covariates:
Folder for Brain University/PhD
File for Initials:

Select Folder for Saving the Results

GUI

Search GUI

Organize

New folder

Name	Status	Date modified	Type	Size
DSQRM_1	✓	1/31/2024 6:42 PM	File folder	
DSQRM_2	✓	2/24/2024 10:39 AM	File folder	
DSQRM_GUI	✓	1/26/2024 2:38 PM	File folder	
examples	✓	2/24/2024 2:21 PM	File folder	
figures	✓	3/29/2024 12:27 PM	File folder	
functions	✓	1/31/2024 5:36 PM	File folder	
simu_results	✓	1/10/2024 2:43 PM	File folder	

Dropbox

This PC

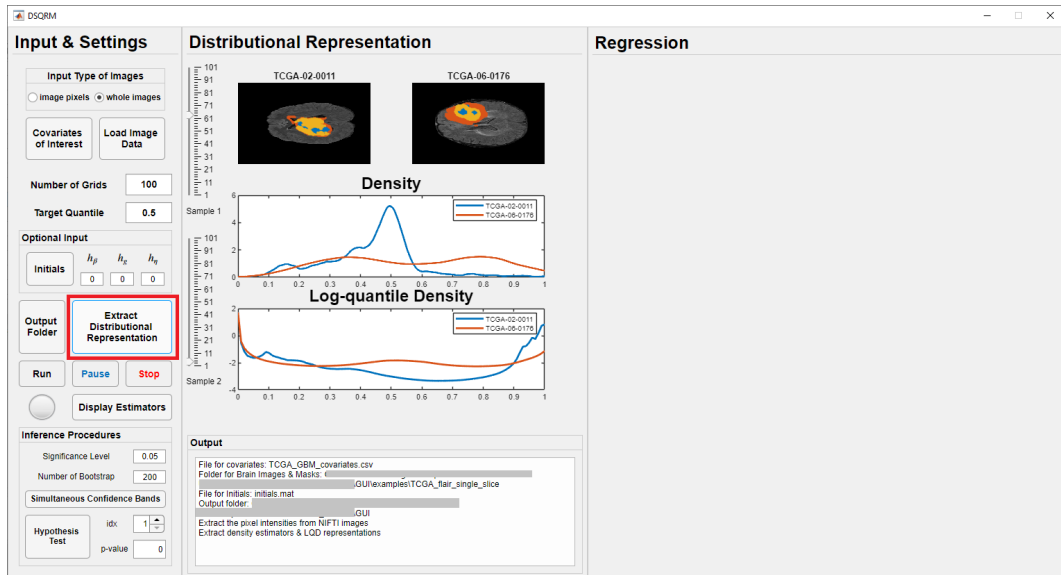
Folder:

Select Folder

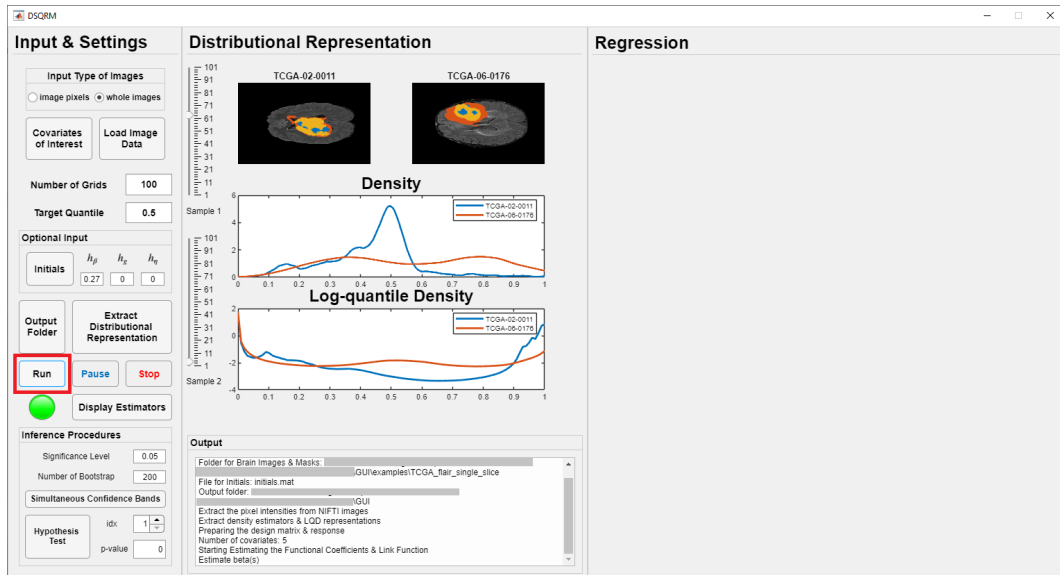
Cancel

Navigation icons

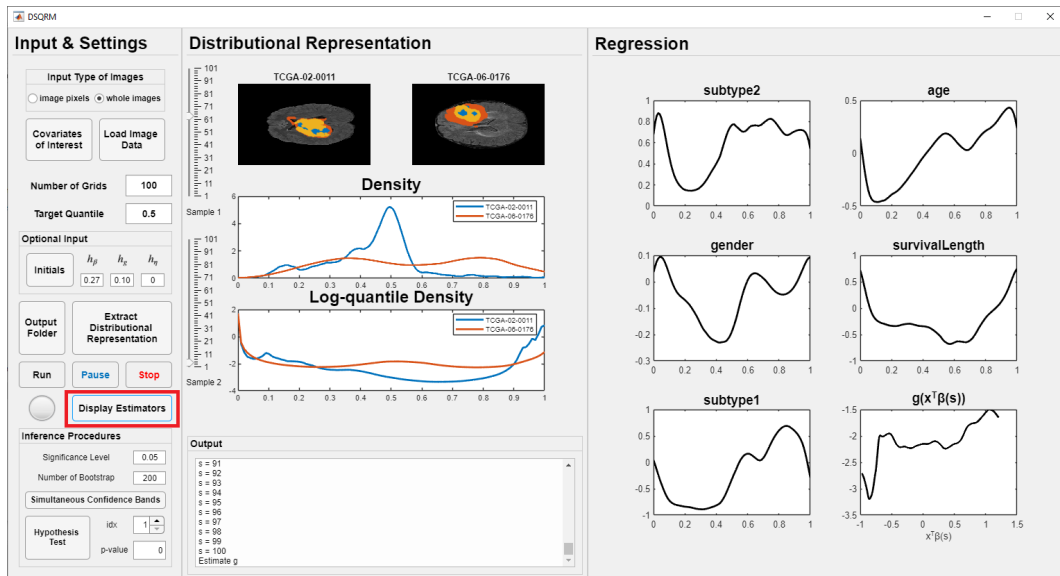
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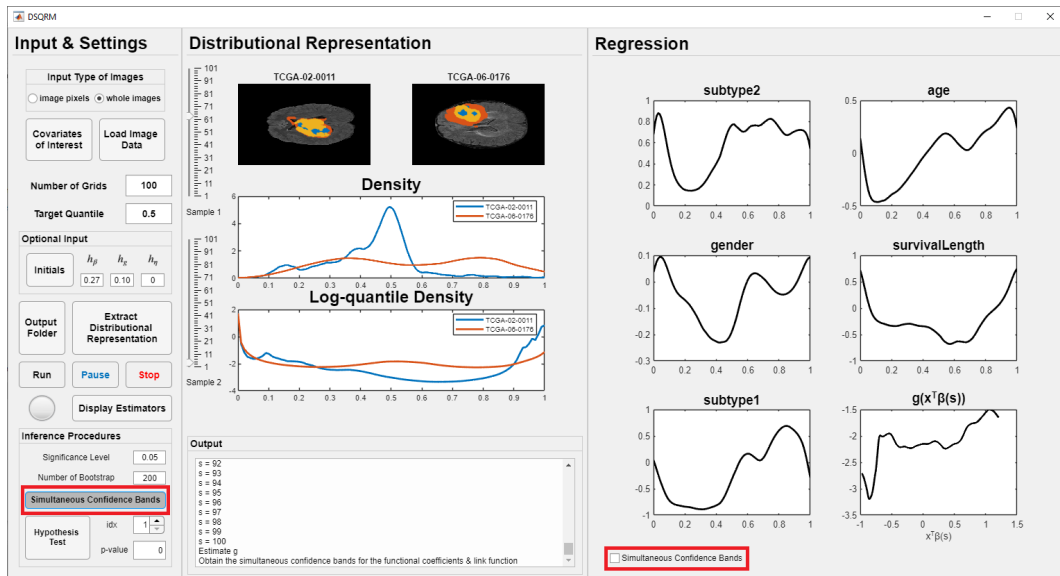
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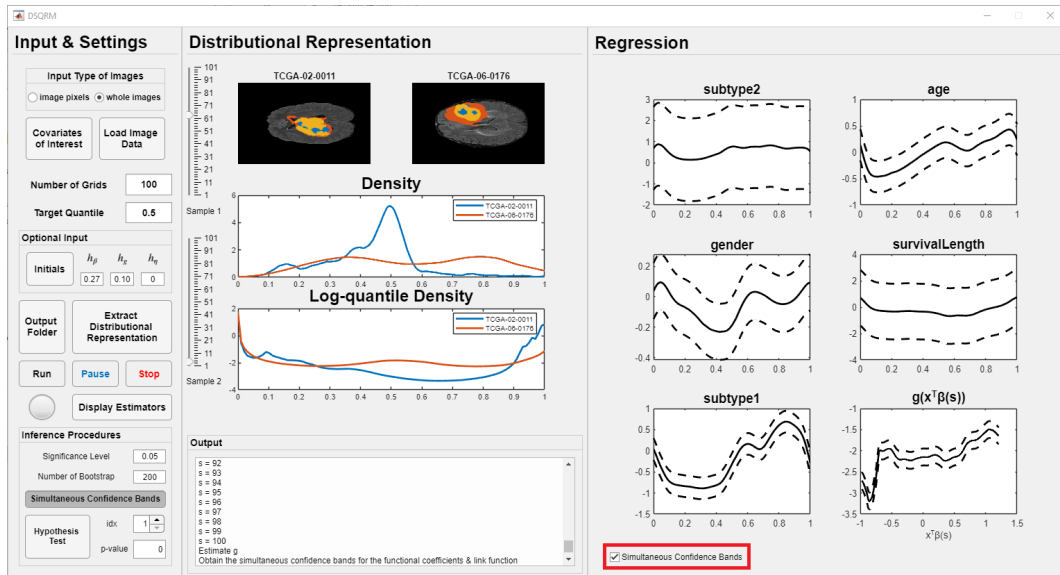
User Guide VIII



User Guide IX



User Guide X



User Guide XI

