



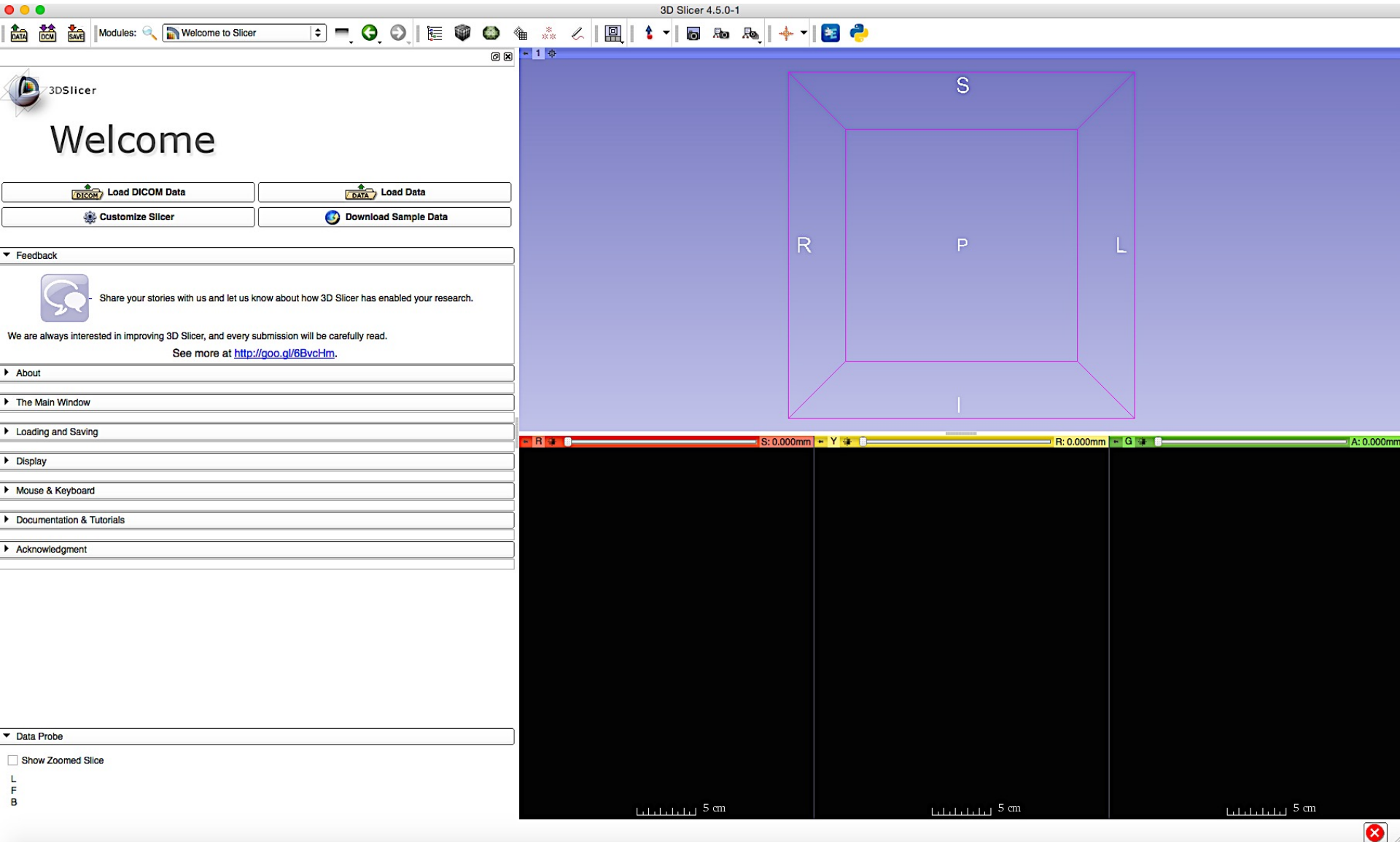
DWI Converter Tutorial

Surgical Planning Laboratory
Harvard Medical School

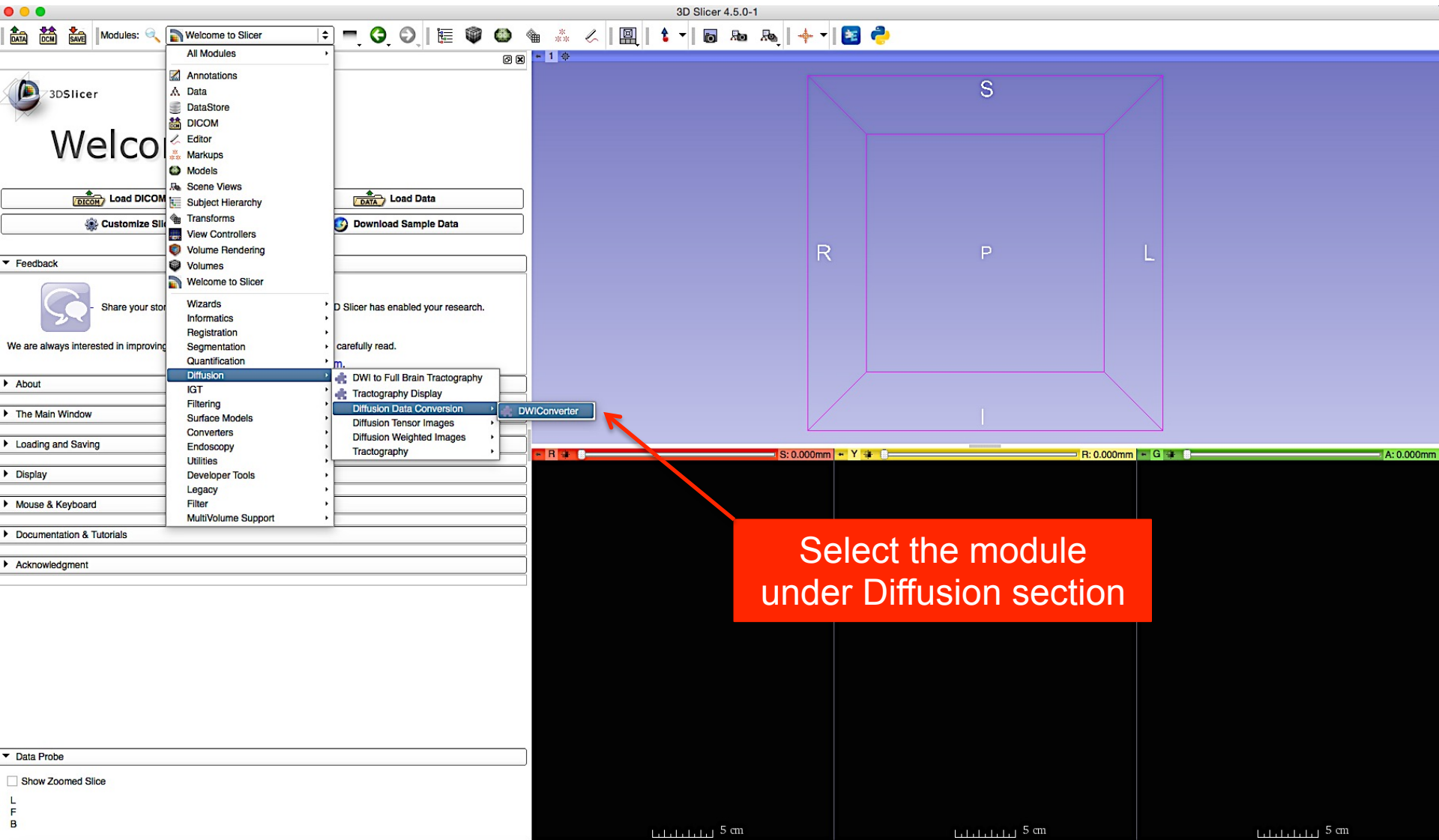




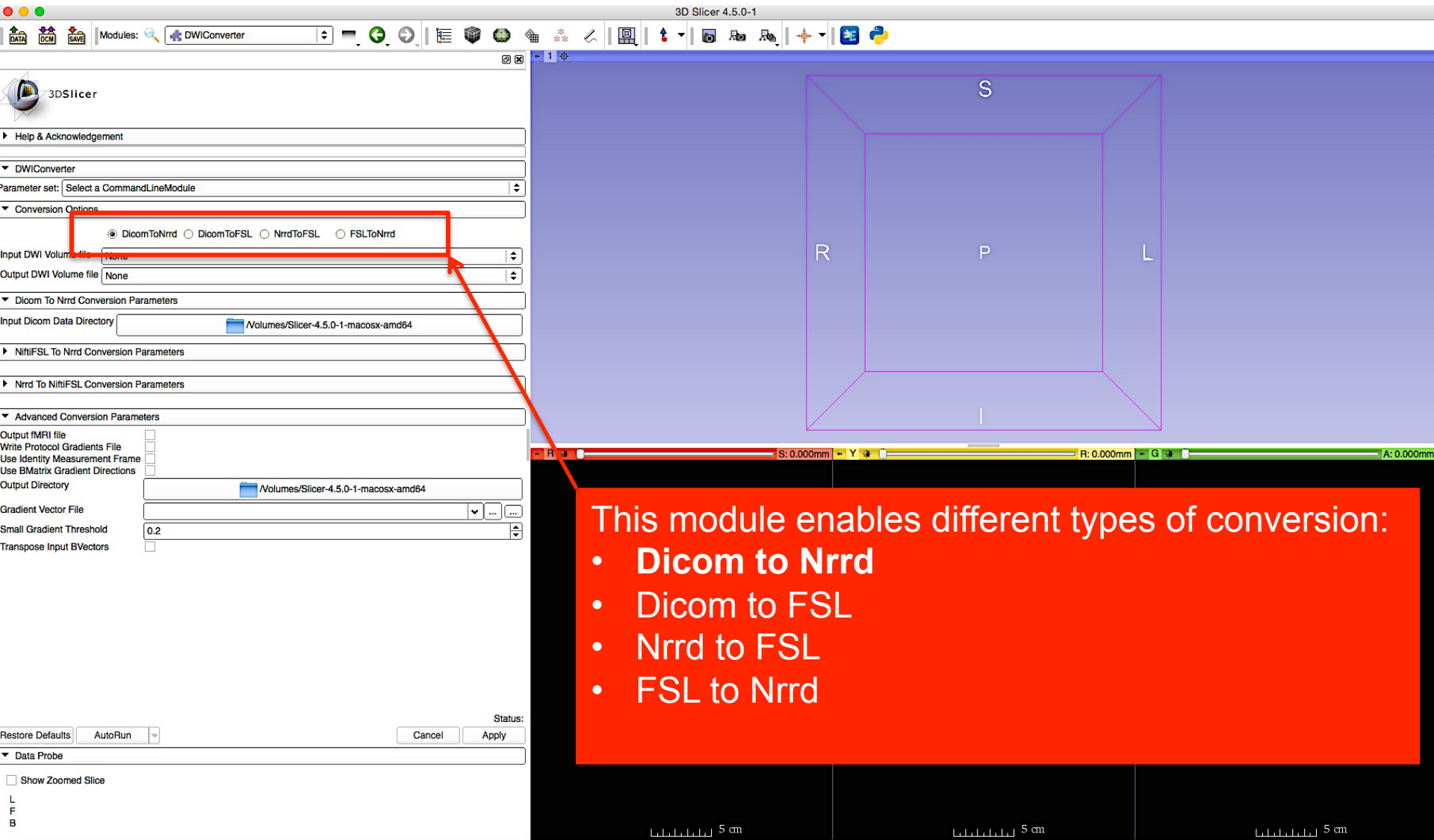
3DSlicer



DWI Converter Module



DWI Converter



DWI Converter

Select DicomToNrrd conversion

The screenshot shows the DWI Converter application window. The 'Parameter set' dropdown is set to 'Select a CommandLineModule'. Under 'Conversion Options', the 'DicomToNrrd' radio button is selected and highlighted with a red box. Below this, the 'Input DWI Volume file' and 'Output DWI Volume file' fields are both set to 'None' and are also highlighted with red boxes. The 'Dicom To Nrrd Conv' dropdown menu is open, showing four options: 'Rename current DiffusionWeightedVolume', 'Create new DiffusionWeightedVolume' (highlighted with a blue bar and a red box), 'Create new DiffusionWeightedVolume as...', and 'Delete current DiffusionWeightedVolume'. Red arrows point from the external text boxes to these specific UI elements.

▼ DWIConverter

Parameter set: Select a CommandLineModule

▼ Conversion Options

☒ DicomToNrrd ☐ DicomToFSL ☐ NrrdToFSL ☐ FSLToNrrd

Input DWI Volume file None

Output DWI Volume file None

▼ Dicom To Nrrd Conv

- Rename current DiffusionWeightedVolume
- Create new DiffusionWeightedVolume
- Create new DiffusionWeightedVolume as...
- Delete current DiffusionWeightedVolume

Input Dicom Data Direct

Create and name your output (Nrrd file)

DWI Converter

This box should remain empty for Dicom to Nrrd conversion

The screenshot shows the DWI Converter application window. It has a title bar 'DWIConverter'. Below it is a 'Parameter set:' dropdown menu with 'Select a CommandLineModule' selected. Underneath is a 'Conversion Options' section with two radio buttons: 'DicomToNrrd' (selected) and 'DicomToFS'. Below these are two file selection fields: 'Input DWI Volume file' and 'Output DWI Volume file', both set to 'None'. A yellow tooltip points to the 'None' in the 'Output DWI Volume file' field, stating 'Input DWI volume - not used for DicomToNrrd mode.' Below these is a 'Dicom To Nrrd Conversion' section. At the bottom is an 'Input Dicom Data Directory' field, which contains a folder icon and the path '/Volumes/Slicer-4.5.0-1-macosx-amd64'. Three red annotations are present: 1. A box at the top pointing to the empty space above the 'Input DWI Volume file' field with the text 'This box should remain empty for Dicom to Nrrd conversion'. 2. A box on the right pointing to the 'Input Dicom Data Directory' field with the text 'Select the directory of your Dicom data (the directory that you select should only contain DWI Dicom files)'. 3. A box on the left pointing to the 'Input DWI Volume file' field.

▼ DWIConverter

Parameter set: Select a CommandLineModule

▼ Conversion Options

☒ DicomToNrrd ☐ DicomToFS

Input DWI Volume file None

Output DWI Volume file None

Input DWI volume – not used for DicomToNrrd mode.

▼ Dicom To Nrrd Conversion

Input Dicom Data Directory /Volumes/Slicer-4.5.0-1-macosx-amd64

DWI Converter

▼ Advanced Conversion Parameters

Output fMRI file ☐

Write Protocol Gradients File ☐

Use Identity Measurement Frame ☐

Use BMatrix Gradient Directions ☒

Output Directory

Gradient Vector File

Small Gradient Threshold

Transpose Input BVectors ☐

Check this box only for Siemens data

The Nrrd file will be automatically loaded in Slicer and it's not necessary to select an output directory

Leave all the other parameters as default and click "Apply"

Restore Defaults AutoRun ▼

Cancel Apply

Status: Idle

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