Step by Step guide to add a new fit model function into the GPUFIT

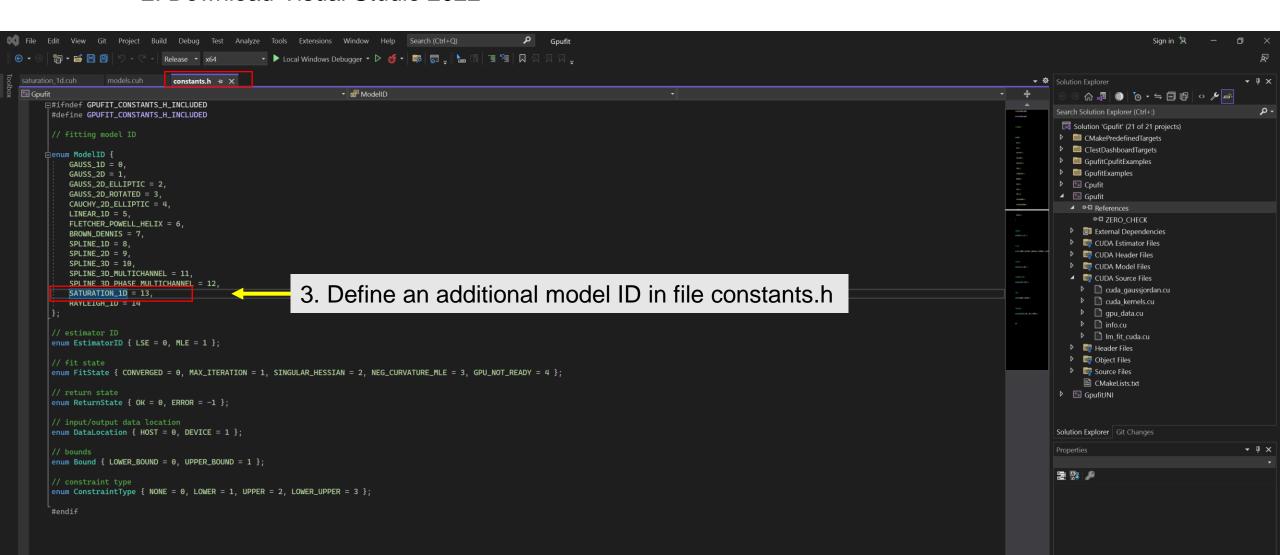
We strongly recommend to follow the installation procedure in Gpufit documentation:

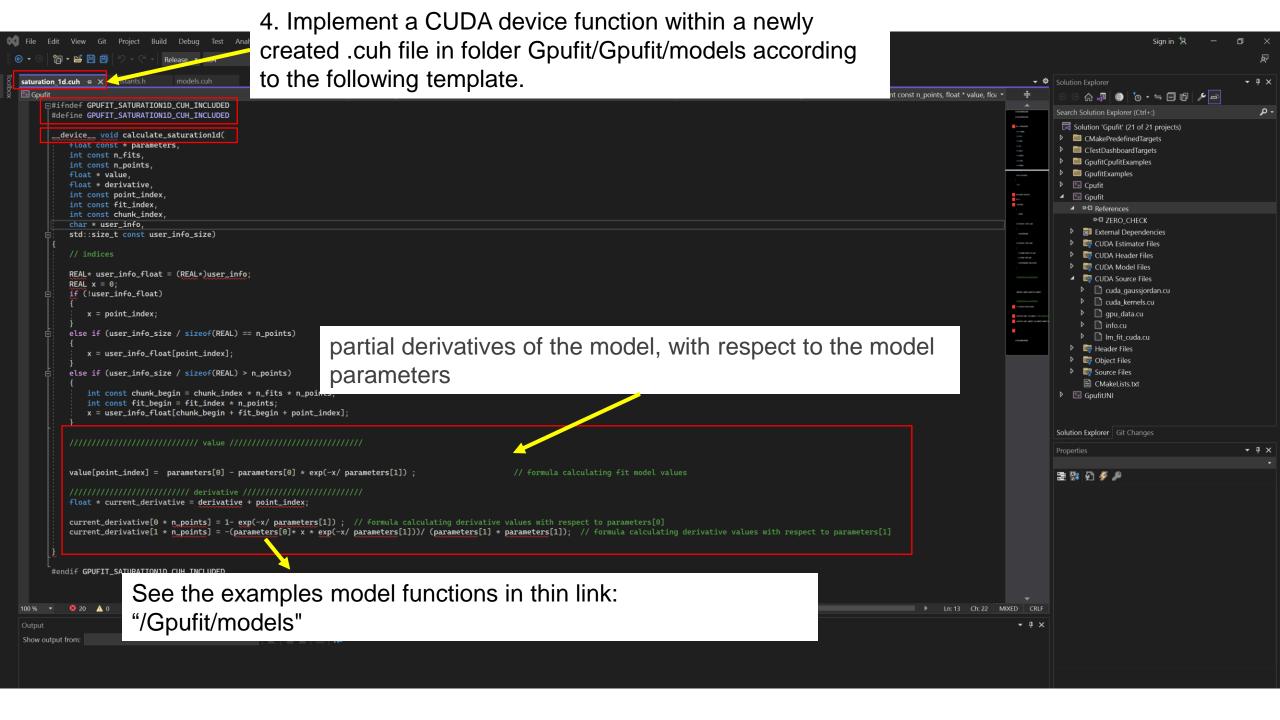
https://gpufit.readthedocs.io/en/latest/index.html

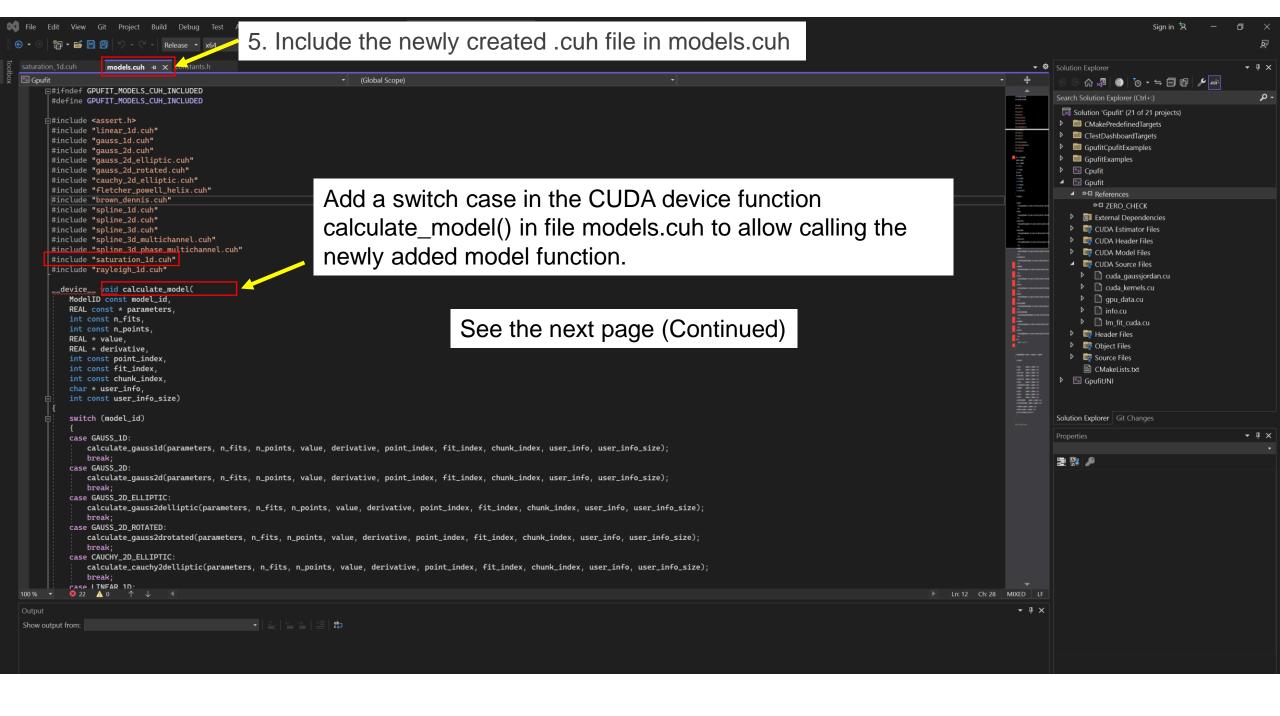
Steps: 1. Download CUDA

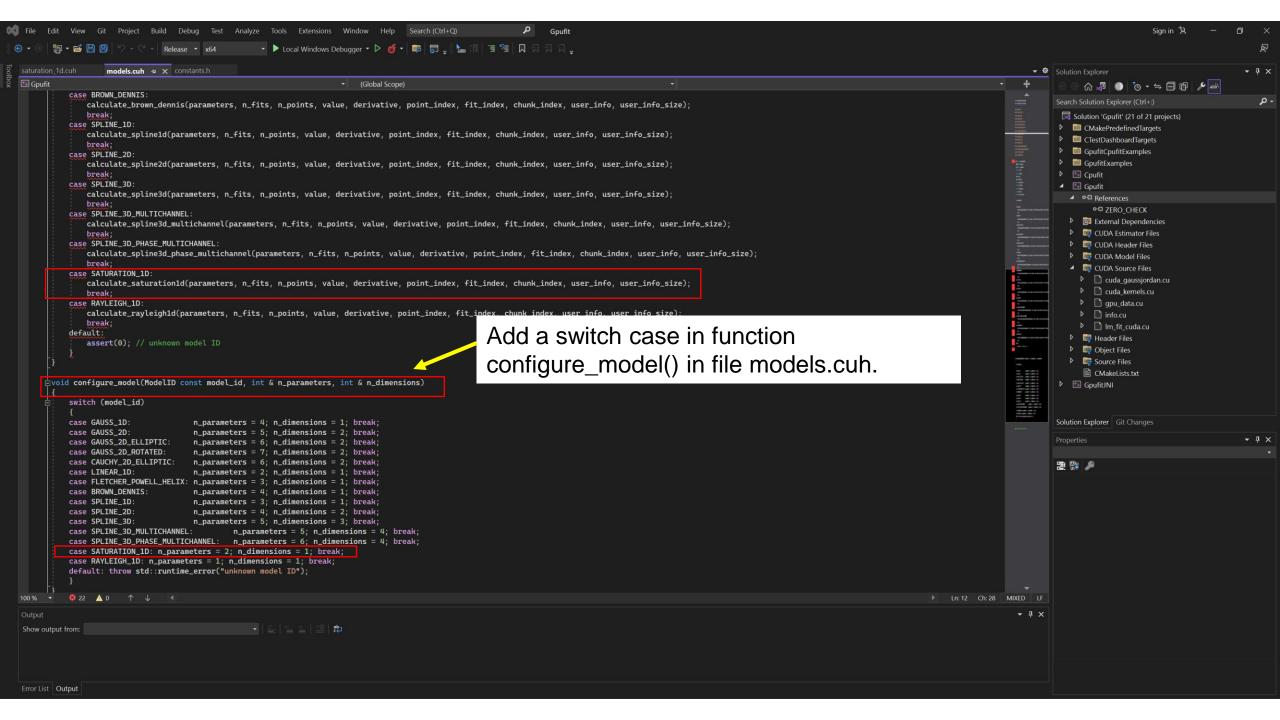
CUDA Toolkit 6.5 or later (tested with 6.5-11.4)

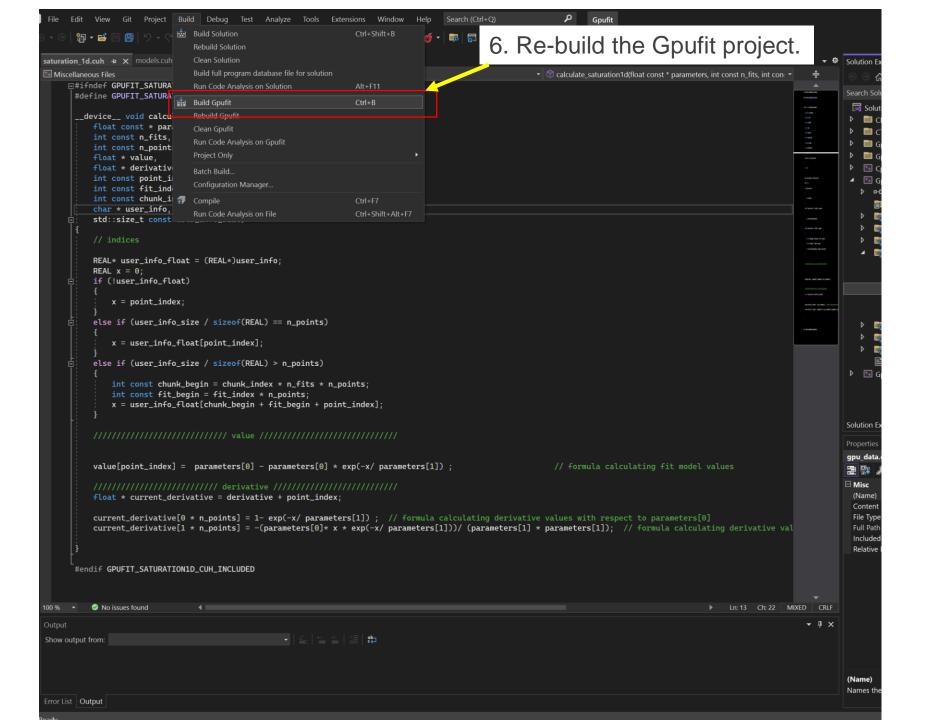
2. Download Visual Studio 2022











VLIV/pygpufit/gpufit.py

```
Raw [□ ± // → □
Code
        Blame 323 lines (262 loc) · 13.9 KB
        cuda_available_func = lib.gpufit_cuda_available
        cuda_available_func.restype = c_int
        cuda_available_func.argtypes = None
        # gpufit_get_cuda_version function in the dll
        get_cuda_version_func = lib.gpufit_get_cuda_version
        get_cuda_version_func.restype = c_int
        get_cuda_version_func.argtypes = [POINTER(c_int), POINTER(c_int)]
        class ModelID:
            GAUSS 1D = 0
            GAUSS_2D = 1
            GAUSS_2D_ELLIPTIC = 2
            GAUSS 2D ROTATED = 3
            CAUCHY_2D_ELLIPTIC = 4
            LINEAR 1D = 5
            FLETCHER_POWELL = 6
            BROWN DENNIS = 7
                                         7. Add the model ID in file gpufit.py
            SPLINE_1D = 8
            SPLINE 2D = 9
            SPLINE_3D = 10
            SPLINE_3D_MULTICHANNEL
            SPLINE_3D_PHASE_MULT CHANNEL = 12
           SATURATION_1D = 13
        class EstimatorID:
            LSE = 0
            MLE = 1
```

8. Add (1) "Gpufit.dll" (2) "gpufit.py"

in the location of "Program/VLIV/pygpufit/".