I use a Julia package, not Python to generate the random field.

To install it,

1- download it from [https://julialang.org/downloads/](https://nam11.safelinks.protection.outlook.com/?url=https%3A%2F%2Fjulialang.org%2Fdownloads%2F&data=05%7C01%7Crabedi%40utsi.edu%7Ca1b93799e6fd465557cc08daf4fe249f%7C515813d9717d45dd9eca9aa19c09d6f9%7C0%7C0%7C638091669629713027%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=eGMi4FkT4U2Bv0nMGZhR0U300IGzQKU2SGlqrRtbdJU%3D&reserved=0) .

2- download vscode from [https://code.visualstudio.com/download](https://nam11.safelinks.protection.outlook.com/?url=https%3A%2F%2Fcode.visualstudio.com%2Fdownload&data=05%7C01%7Crabedi%40utsi.edu%7Ca1b93799e6fd465557cc08daf4fe249f%7C515813d9717d45dd9eca9aa19c09d6f9%7C0%7C0%7C638091669629713027%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=32Giec5MinpChR1CWqKOdNgsHouCmBssXEnyExPraIY%3D&reserved=0) . From Vscode editor, install Julia extension.

3- open vscode, press Ctrl+shift+P to switch to Julia environment

I can show you the process when we meet.

I put 5000 realizations generated from the Julia package in rabedi@pascal:/media/data3/SVE/Giang .