

Tools for open geospatial science

Make your science stronger by making it transparent and reproducible.

Summer II 2019, GIS 595-601

Special Topics in Geospatial Information Science

Distance Education

The course will:

- focus on open science and reproducibility of geospatial analyses,
- use geospatial open source tools,
- introduce general-purpose and text authoring tools,
- and uncover mysteries of open source.

The students will:

- understand the emerging field of open science,
- gain hands-on experience with variety of open source tools,
- try tools used useful in science and heavily used in industry,
- and see how to use the same approaches in their own research.

Why to take it?

- I want my computations validated by other researchers.
- I want my research to be reused by a wider community.
- I want to learn about science, but also gain knowledge marketable in industry.

Why not to take it?

- I don't like other people using my research because only I understand it.
- I don't want people finding mistakes in my calculations.
- I like to send my documents through email with names like joes_corrections_FINAL_3.

Some of the software covered: Jupyter Notebook, QGIS, Markdown, Authorea, Linux, Git, Overleaf, GRASS GIS, GDAL, Leaflet, Docker



Lecture combined with hands-on exercise which overlaps with a short homework

Distance Education – Internet (with help sessions)

Contact: Vaclav (Vashek) Petras, vpetras@ncsu.edu

URL: <https://goo.gl/0xpyYk>