

GEOP 572 Geodetic Methods – Homework 4 (Optional)

The following homework is to be turned in by 5pm on Wednesday, December 9. Late submissions will not be accepted.

Please drop off **well-ordered printouts** (solutions, description of solution, code, figures in order of assignment) in class, my EES department mailbox or slip it under my office door. In addition, email digital copies of your solution to rg@nmt.edu. Do all of this before the deadline!

Problem 1

This was the first iteration of the class. Most of the materials were developed from scratch or significantly changed from other people's lectures on related subjects. I'd like to hear how well it worked; in a more detailed manner than the evaluations allow.

Please go over lectures, notes, and labs and try to recall what worked and what didn't. In about 1-2 pages of text (or as much as you need), provide me with a constructive, detailed critique of the class. This includes lecture, labs and homework.

For the lectures elaborate on:

- topics covered
- modes of presentation
- how well this material met your expectations
- suggestions for future iterations (how to restructure, what to focus on more/less)
- ...

For the labs elaborate on (note though, that I can't make all of the labs about learning to program - I'd be keen to hear suggestions on how to mediate the command line issue):

- which labs were worthwhile
- which labs deserve improvements (give suggestions)
- suggestions for future iterations (how to restructure, what to focus on more/less)
- ...

Do the same for the homework and projects.

Finally, elaborate a bit on which of the material covered you might use in the future; either research, teaching, industry job.

Problem 2

For the Tohoku-oki 2011 dataset use the Okada equations to implement an inversion scheme for strike slip and dip slip on a 2D discretized fault surface including regularization . . . just kidding; I invite you to think about this though. Happy Thanksgiving!