

Panel Summary #1

PROPOSAL NO.: 0417929

PANEL SUMMARY:

The PIs propose interdisciplinary work between a seismologist and an applied statistician on quantification of uncertainty in seismic inverse problems, especially in the presence of physical constraints, and approximation in modeling. The panel generally recognized that both PIs are well established researchers in their respective fields and well suited to conduct the proposed research. It is also well recognized that in general there remains a gap between tomography and suitable mathematics in the context of seismology research. The panel as well as the reviewers felt that more details, particularly from a statistical point of view, should be provided in the research plan. It was also noted that there was a lack of communication between the PIs.

The proposed project will train graduate and undergraduate students at the interface of statistics and seismology. The more exciting possibility, as pointed out by one reviewer, would be to train individuals with some reasonable level of expertise in both fields.

The panel generally found the research project to be scientifically sound and may have broader implications than seismology alone.

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