



中央研究院 地球科學研究所
地球構造研究室

我們研究室主要研究興趣在於解析、監測、與了解三維地下構造之幾何形貌與物理性質，進而探討其與地震、火山、板塊運動、內核演化等岩石圈與地球深部構造活動的關係；我們同時也致力於改良與發展相關地震影像的技術。

目前計畫進行的研究主題為「台灣地區社群速度模型之全波形反演與跨領域整合」，主要內容分為兩部分，一是在現有走時速度模型的基礎上，運用全波形反演技術來進一步改善並解析更精準的地下構造；二則聯合不同地球物理方法的訊息來建構更詳細的模型網格，如近地表速度構造與不連續面的幾何分布等，幫助構造判識與(物理式)強地動災害評估的建立。

歡迎對以上主題，以及對(廣義的)地球構造/地震構造有興趣的學生、研究助理和博士後等新血的加入！

實驗室：地球構造研究室(黃信樺助研究員)

需求職稱：博士後研究員、碩士級專任研究助理、博士班/碩士班研究生、大學部專題生等數名

研究主題：1. 台灣地區社群速度模型
2. (廣義的)地球/地震構造

需求說明：1. 具地球物理背景，或是地質/數學/物理/資訊工程背景但對地球科學有興趣者
2. 好奇心、研究熱忱。有基本英文溝通能力與程式撰寫能力者尤佳。
3. 博士後研究之主題依彼此之專長另行討論；研究助理則以協助上述研究計畫為主。

工作地點：中央研究院地球科學研究所，台北市南港區研究院路二段 128 號

工作待遇：依科技部標準

有意者請聯絡黃信樺助研究員

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Institute of Earth Sciences, Academia Sinica
Earth Structure Laboratory

Research interests of our group lie mainly in resolving, monitoring, and understanding the three-dimensional geometry and elastic properties of subsurface structure from shallow to deep Earth, by which we can then explore its relationship to seismicity, volcanoes, plate tectonics, inner core evolution, etc.; meanwhile, we also devote to improving/developing the related seismic imaging techniques.

The current research project is to create a Taiwan community velocity model by using full waveform information with adjoint method and integrating interdisciplinary constraints on especially near surface velocity structure and geometry of discontinuity, in that a more advanced and complete knowledge of detailed subsurface structure can be achieved and the physics-based strong motion assessment system can be established and evaluated.

We are recruiting new members at all levels! To whom are interested in the above research topic or the topics in (broadly-defined) earth/seismotectonic structure, welcome to join us!

- Research group: Earth structure laboratory (PI: Hsin-Hua Huang)
- Position titles: Postdoctoral scholars, full-time research assistants (with Master degree), PhD/master students, and undergraduates
- Research topics: 1. Establishing Taiwan community velocity model
2. Earth and seismotectonic structure (broadly defined)
- Requirements: 1. Geophysics background, or geology, physics, mathematics, computer science background but interested in Earth science
2. Highly motivated people who have basic skills of English communication and programming are preferred
3. The research topic for postdoctoral scholars is oriented and decided with both expertise; the research assistants are mainly assisting in the ongoing research project
- Working place: Institute of Earth Sciences, Academia Sinica, Nankang, Taipei
- Salary: In accordance with MOST's standard

If you are interested in joining us, please contact Dr. Hsin-Hua Huang

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