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Short presentation

My primary focus is on the development of imaging techniques and solving inverse problems. I utilize seismic wave observations to deploy an array of methods, including tomography, receiver function imaging, moment tensor inversion, relocation analysis, and shear wave splitting techniques.

Additionally, I engage in electromagnetic imaging, specifically employing lasers to assess the roughness and topography of surfaces. I have patented a novel optical scanning apparatus designed as a dynamic 3D interferometric surface probe. I am keen to connect with potential collaborators who share similar research interests. If your interests aligns with mine, please drop me a line.

Recently appointed as an assistant researcher in Klaus Mosegaard's group, where I am currently engaged in an innovative project aimed at refining algorithms to enhance our understanding of Earth's temporal history.

Websites:-

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<https://gitlab.com/mohammadyoussof>

Publications

Coupled Crust-Mantle Evolution for > 2 Gy in Southern Africa from Exceptionally Strong Crustal Anisotropy

Thybo, H., Youssof, Mohammad & Artemieva, I. M., 27 Nov 2021, In: Acta Geologica Sinica - English Edition. 95, 51, p. 44-47 4 p.

Coupled Crust-Mantle Evolution for > 2 Gy in Southern Africa from Exceptionally Strong Crustal Anisotropy

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Non-Volcanic Earthquake Swarm Near the Harrat Lunayyir Volcanic Field, Saudi Arabia

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Earthquake swarm in non-volcanic areas of western Saudi Arabia: comparison of observations and imaging

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