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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 align 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:-

<https://youssof.webs.com>

<https://github.com/MohammadYoussof>

<https://gitlab.com/mohammadyoussof>

Publications

Three-Dimensional Dynamic Interferometric Surface Probe

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

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