

## Seismic-interferometric applications for near-surface and mineral exploration

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# **Propositions**

accompanying the dissertation

## **SEISMIC-INTERFEROMETRIC APPLICATIONS FOR NEAR-SURFACE AND MINERAL EXPLORATION**

by

**Florencia Ibel BALESTRINI**

1. Seismic interferometry represents a powerful methodology that should become a standard step when processing seismic data. (This thesis)
2. Signals considered noise should be investigated and processed in order to retrieve underlying information that would be lost if such noise signals are discarded. (This thesis)
3. To meet the ever-increasing challenges to find new mineral resources, novel processing methodologies are constantly needed to better define known targets and find new, especially smaller, targets. (This thesis)
4. The transition to renewable and zero-carbon-emission energy systems can be societally responsible only when the exploration and exploitation of raw material becomes more environmentally friendly, cost-effective and equitable.
5. Practical developments should be regarded as equally valuable as theoretical developments.
6. By not speaking up for others as much as for ourselves, we endorse undesired behaviour that continues to corrupt modern society, allowing injustice to prevail.
7. In some societies, the extra work expected from women at home is portrayed as coming naturally from women's caring nature. This should instead be seen as a form of forced unpaid labour and recognised as the major obstacle to the equal participation of women in the economic and political life.
8. The journey of new discoveries stems from shifting perspective and not from discovering new lands.
9. In order to support mental health, governments should enforce puppy-friendly offices.

These propositions are regarded as opposable and defensible, and have been approved as such by the promoters Dr. ir. D.S. Draganov. and Dr. R. Ghose