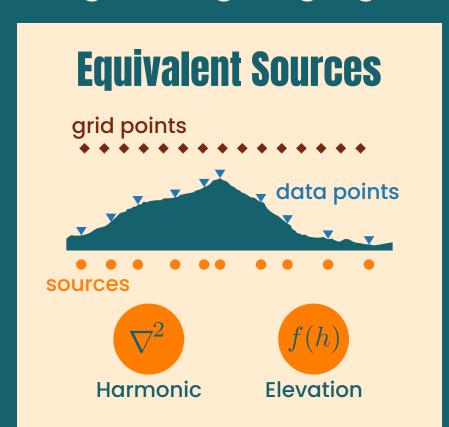
Gradient-boosted equivalent sources

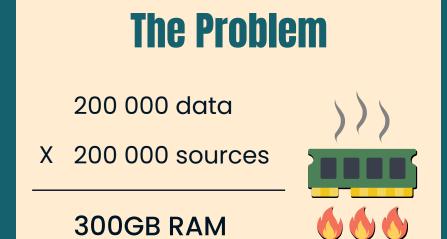
for gridding large gravity and magnetic datasets

Santiago R. Soler & Leonardo Uieda

santiago.r.soler@gmail.com



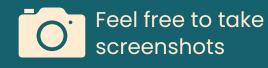






The Solution: Gradient boosting Select & fit data and sources Start with data and eq. sources in window #1 Predict on all points and Calculate residuals fit the step-size coefficient Predict on all points, fit step-size, Select & fit residuals and sources and update residuals in window #2 **Repeat for** all windows







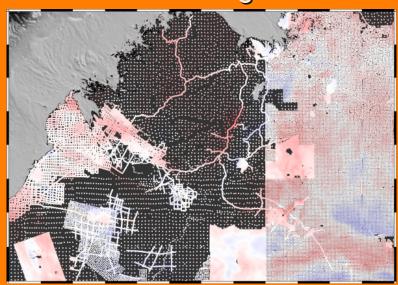




Interpolating Australia Gravity Data

+1.7 million data points <10GB RAM

Section of the original data



Section of the Interpolated grid

