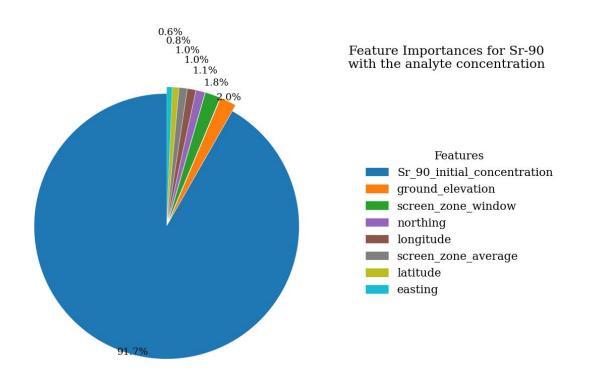
Random Forest plots

Until 08/19

Student: Vu Anh Le

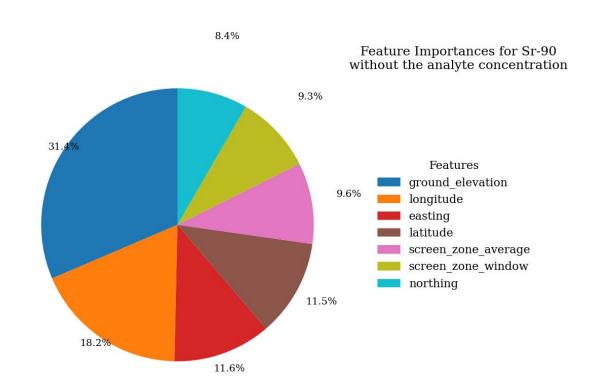
PI: Haruko Murakami Wainwright

Feature Importances for Sr-90 with the analyte concentration



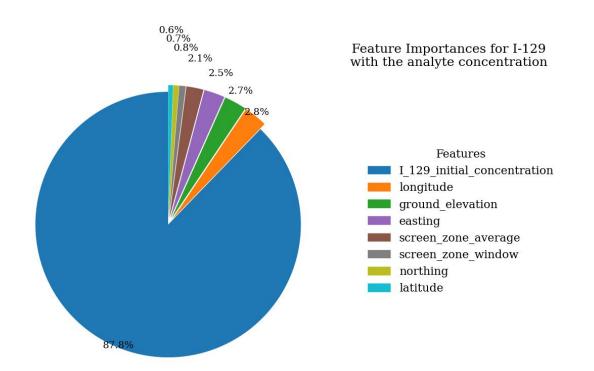
- Mean R² score: -5.46121966044404
- Mean Squared Error: 3.5969866423461517e-08
- R^2 Score: 0.9074630417155112
- Feature Importances:
- Sr_90_initial_concentration 0.917244
- ground_elevation 0.019602
- screen_zone_window 0.018426
- northing 0.010831
- longitude 0.010075
 - screen_zone_average 0.009523
- latitude 0.007839
 - easting 0.006460

Feature Importances for Sr-90 without the analyte concentration



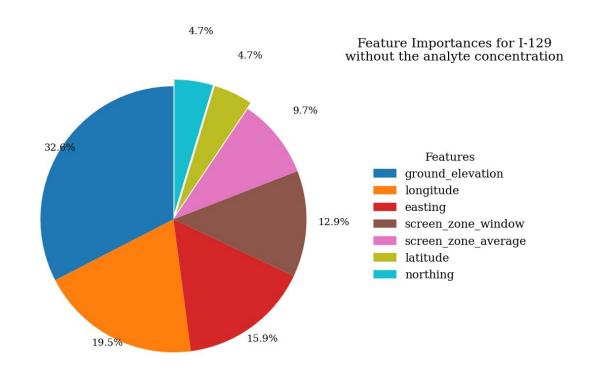
- Cross-validated R^2 scores: [
 -0.4014842 -52.05470738
 -11.91180222 -26.6300194
 -85.83511528]
- Mean R^2 score:-35.36662569457485
- Mean Squared Error: 7.206368980277929e-08
- R^2 Score: 0.8146071887340529
- Feature Importances:
- ground_elevation 0.314237
- longitude 0.182247 easting 0.116032
- latitude 0.114966
- screen_zone_average 0.096261
- screen_zone_window 0.092635
- northing 0.083622

Feature Importances for I-129 with the analyte concentration



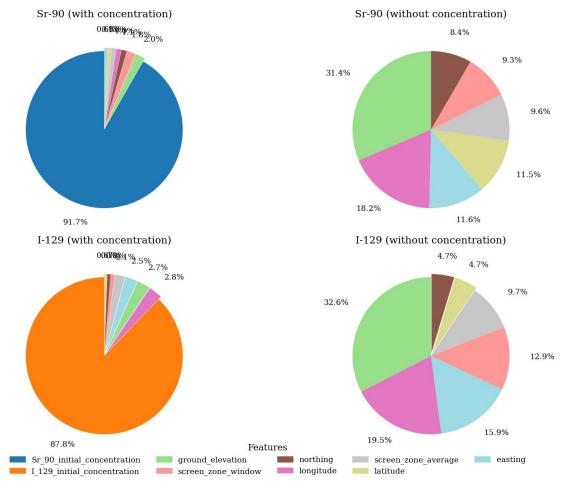
- Cross-validated R^2 scores: [
 0.15430826 0.64095158 -8.89981705
 -6.13593633 0.5748451]
- Mean R^2 score:-2.7331296888723804
- Mean Squared Error: 1.0086353199252846e-08
- R^2 Score: 0.9277619296158255
- Feature Importances:
- I_129_initial_concentration 0.877624
- longitude 0.028442
- ground_elevation 0.027231
- easting 0.025351
- screen_zone_average 0.020893
- screen_zone_window 0.007931
- northing 0.006645
- latitude 0.005883

Feature Importances for I-129 without the analyte concentration



- Cross-validated R^2 scores: [
 -0.22551788 -26.62387488
 -24.28006399 -2.43512511
 -0.20169076]
- Mean R^2 score: -10.75325452459157
- Mean Squared Error: 1.7405224094577344e-08
- R^2 Score: 0.8753444601474449
- Feature Importances:
- ground_elevation 0.325661
- longitude 0.195330 easting 0.158860
- screen_zone_window 0.129134
- screen_zone_average 0.096822
- latitude 0.047426
- northing 0.046768

Overall importance scores



Overall performance

