

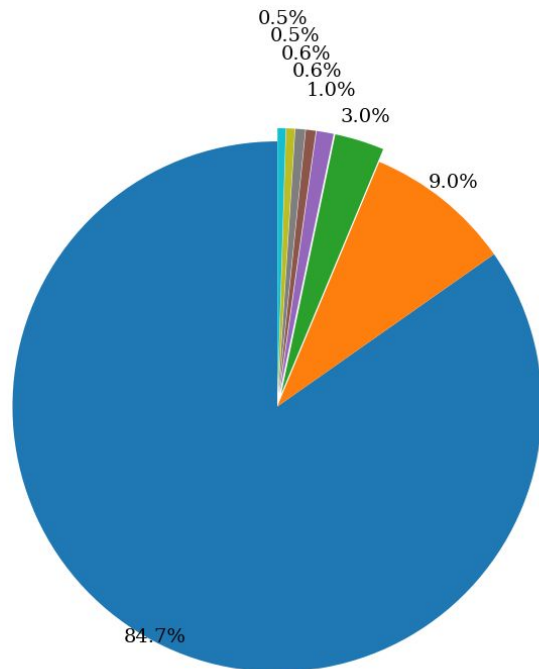
Random Forest plots

Until 08/19

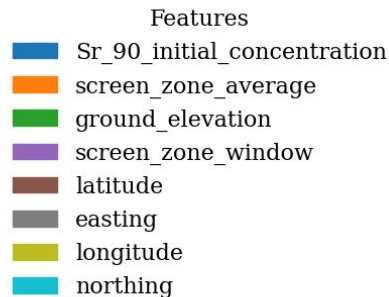
Student: Vu Anh Le

PI: Haruko Murakami Wainwright

Feature Importances for Sr-90 with the analyte concentration

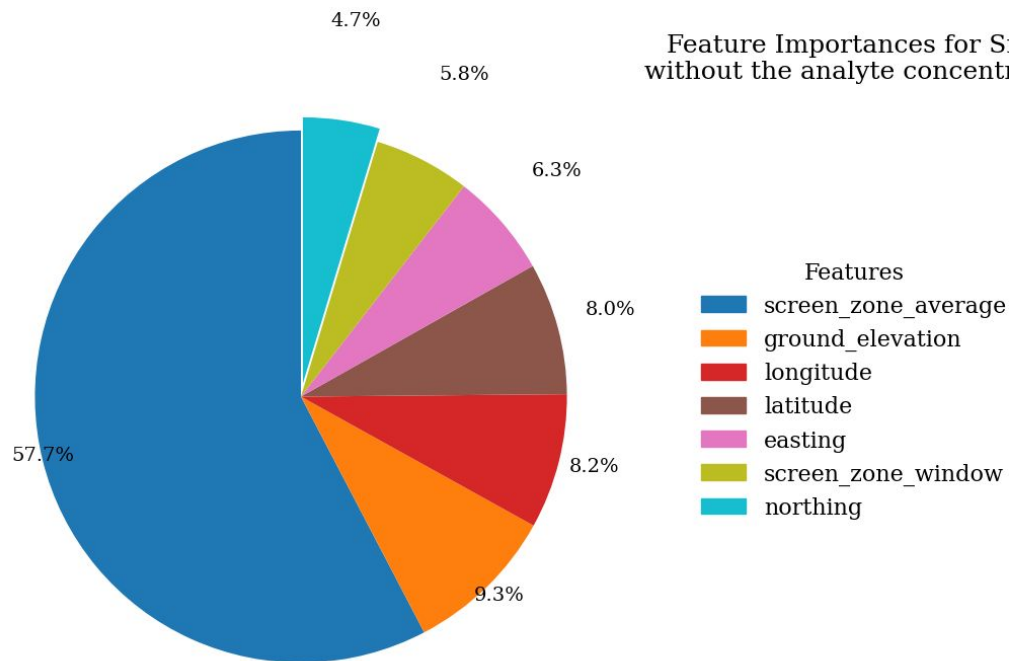


Feature Importances for Sr-90 with the analyte concentration



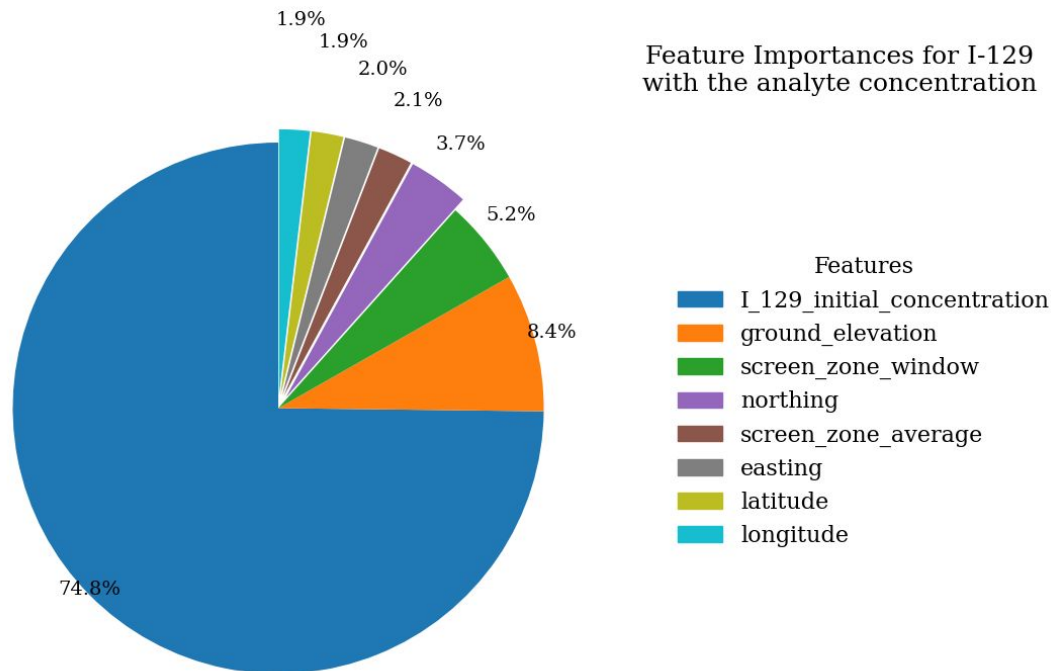
- Cross-validated R² scores:
[0.22666521 0.93560472 0.63664596
-4.13316453 0.50821917]
- Mean R² score:
-0.3652058935722769
- Mean Squared Error:
9347983.15322222
- R² Score: 0.9774037043107859
- Feature Importances:
- Sr_90_initial_concentration 0.847391
- screen_zone_average 0.089659
- ground_elevation 0.030177
- screen_zone_window 0.010428
- latitude 0.006073
- easting 0.006044
- longitude 0.005237
- northing 0.004991

Feature Importances for Sr-90 without the analyte concentration



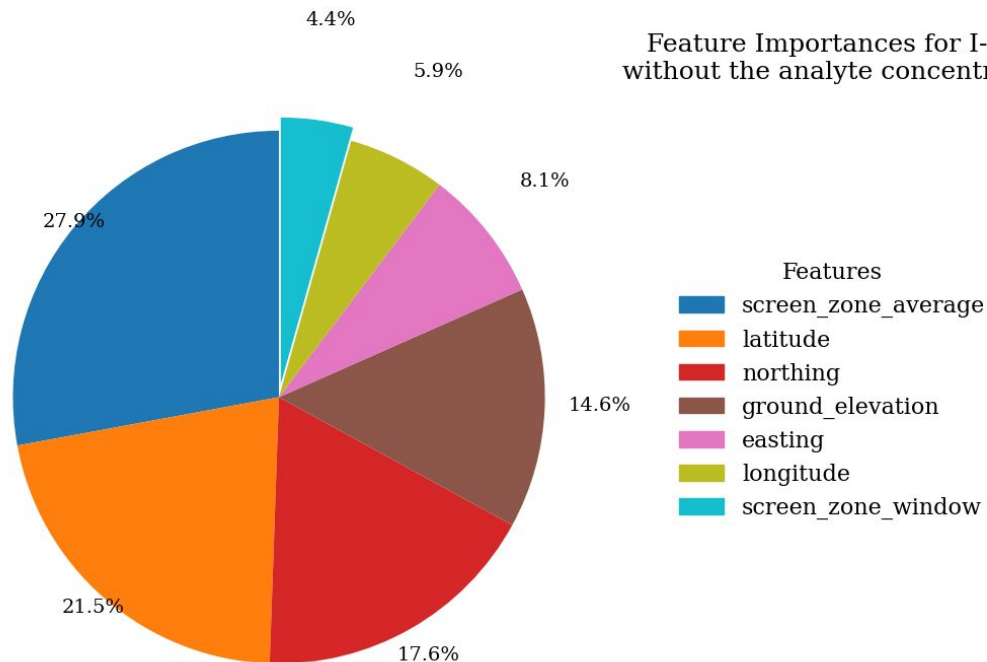
- Cross-validated R^2 scores:
[-8.53244381 0.41649952
0.24008787 -17.40124283
-0.59614906]
- Mean R^2 score: -5.174649663500623
- Mean Squared Error:
52733275.42929629
- R^2 Score: 0.8725311476571911
- Feature Importances:
 - screen_zone_average 0.576686
 - ground_elevation 0.092753
 - longitude 0.081996
 - latitude 0.080231
 - easting 0.063388
 - screen_zone_window 0.058293
 - northing 0.046652

Feature Importances for I-129 with the analyte concentration



- Cross-validated R^2 scores:
[0.44451467 0.07415643 -3.91224243
-3.5010407 0.15295998]
- Mean R^2 score:
-1.3483304086991073
- Mean Squared Error:
158758834.7273149
- R^2 Score: 0.8992293330473253
- Feature Importances:
- I_129_initial_concentration 0.748109
- ground_elevation 0.084127
- screen_zone_window 0.051528
- northing 0.036860
- screen_zone_average 0.020877
- easting 0.020431
- latitude 0.019421
- longitude 0.018646

Feature Importances for I-129 without the analyte concentration



- Cross-validated R^2 scores:
[-4.71532359 -0.44663049
-14.109882 -0.85572685
-14.93855185]
- Mean R^2 score:
-7.0132229584067485
- Mean Squared Error:
255291403.71792763
- R^2 Score: 0.8379561990101084
- Feature Importances:
- screen_zone_average 0.279070
- latitude 0.215394
- northing 0.175841
- ground_elevation 0.145904
- easting 0.080696
- longitude 0.059290
- screen_zone_window 0.043805

Feature Importances for I-129 without the analyte concentration

