

Top 5 Models (ranked by R<sup>2</sup>)

Overview

Rank	R <sup>2</sup> (train)	#Features	#Samples	Formula
1	0.914	4	12	<del>-2-3- + -2-9- + Dist_1-2 + dip_x</del> <del>-1-2- + Dist_1-2 + Dist_16-17 +</del>
2	0.904	4	12	<del>[dip_2', 'Dist_1-2', 'Dist_16-17',</del>
3	0.904	1	12	<del>[dip_2', 'Dist_1-2', 'Dist_16-17',</del>
4	0.904	1	12	<del>[dip_2', 'Dist_1-2', 'Dist_16-17',</del>
5	0.894	4	12	<del>'dip_x']</del> para + -18-20- + Dist_16-17 + L

Rank #1 | R²=0.914 | Features=4 | Samples=12  
-2-3- + -2-9- + Dist\_1-2 + dip\_x

Coefficients

Estimate	Std. Error	t value	p value
0.7459	0.02136	34.93	4.093e-09
-0.08011	0.0205	-3.908	0.005839
-0.08343	0.02441	-3.419	0.01116
-0.1581	0.02198	-7.195	0.0001783
-0.1314	0.02489	-5.282	0.001146

VIF

variable	VIF
-2-3-	1.134
-2-9-	1.454
Dist_1-2	1.173
dip_x	1.415

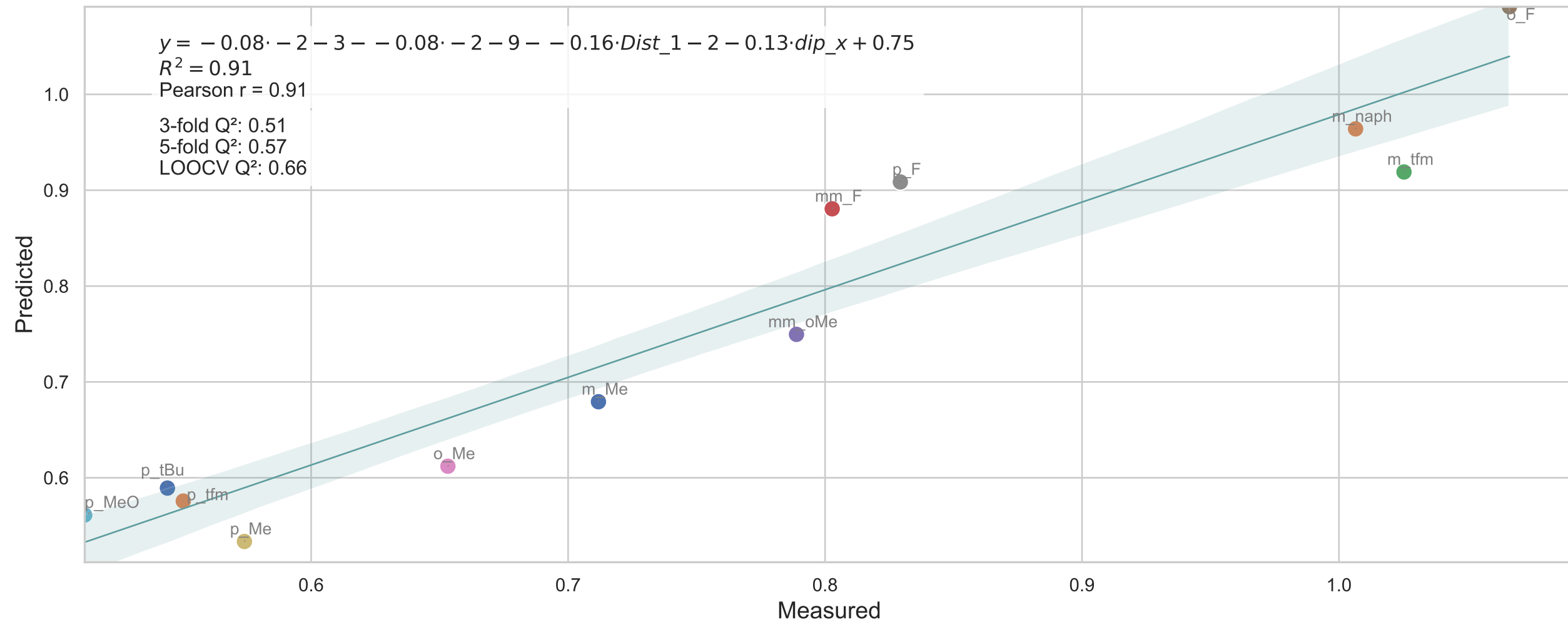
Cross-validation metrics

Q2_3_MAE	MSQ2_3_MAE	Q2_5_MAE	MSQ2_5_MAE	Q2_LOO_MAE	RMSD_LOO
0.510	0.103	0.131	0.570	0.095	0.119
0.657	0.097	0.111			

Model Summary

Formula: -2-3- + -2-9- + Dist\_1-2 + dip\_x  
Train R²: 0.914  
Q² (3/5/LOO): 0.511 / 0.570 / 0.657

# Predicted vs Measured



Dist\_1-2

dip\_x

-2-9-

-2-3-

SHAP value (impact on model output)

High

Feature value

Low

Coefficients

Estimate	Std. Error	t value	p value
0.7397	0.02247	32.92	6.177e-09
-0.09158	0.02573	-3.559	0.009232
-0.1117	0.02835	-3.941	0.005598
0.1028	0.02764	3.719	0.00747
-0.09002	0.0234	-3.847	0.006318

VIF

Cross-validation metrics

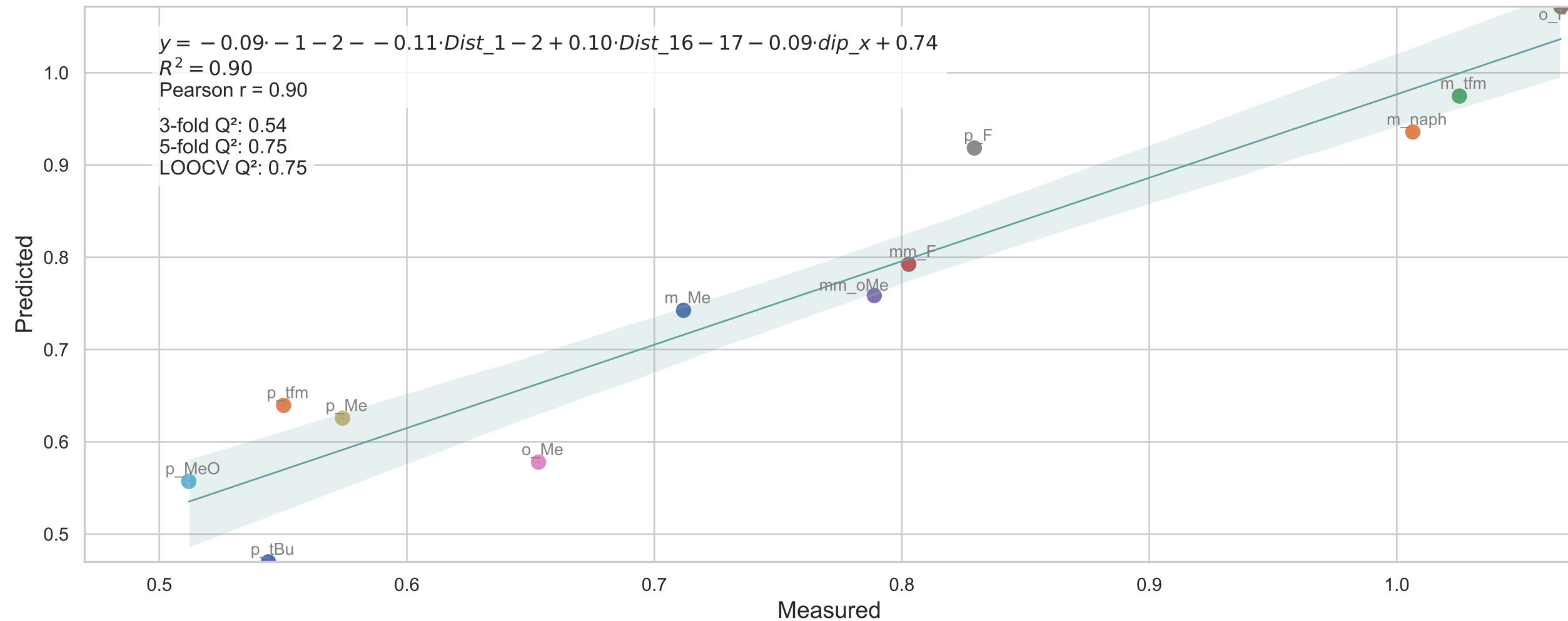
Model Summary

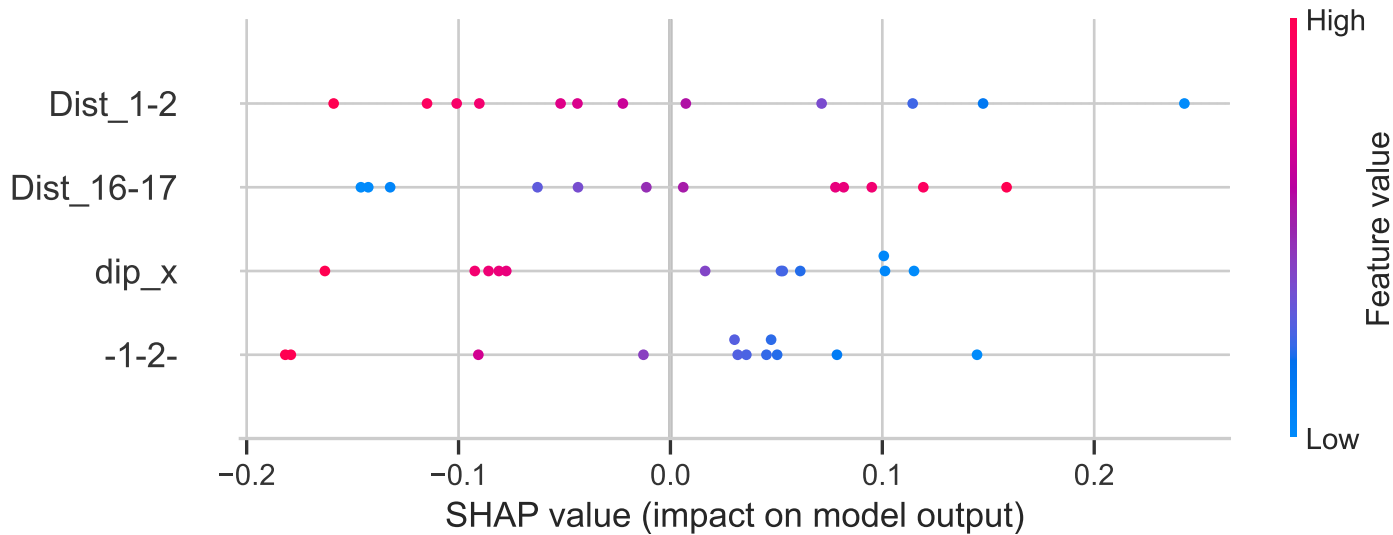
Formula: -1-2- + Dist\_1-2 + Dist\_16-17 + dip\_x  
Train R²: 0.904  
Q² (3/5/LOO): 0.540 / 0.746 / 0.747

variable	VIF
-1-2-	1.479
Dist_1-2	1.752
Dist_16-17	1.547
dip_x	1.124

Q2_3	MAE	MSQ	Q2_5	MAE	MSQ	LOO	MAE	MSQ	LOO
0.540	1.102	1.124	0.746	0.084	0.095	0.747	0.086	0.096	

# Predicted vs Measured





Coefficients

Estimate	Std. Error	t value	p value
0.7248	0.02441	29.69	1.266e-08
0.2215	0.04443	4.986	0.001591
-0.09812	0.03416	-2.872	0.02392
0.1826	0.02856	6.394	0.0003693
-0.09175	0.03269	-2.807	0.02627

VIF

Cross-validation metrics

Model Summary

Formula: para + -18-20- + Dist\_16-17 + L  
Train R²: 0.894  
Q² (3/5/LOO): 0.629 / 0.630 / 0.682

variable	VIF
para	3.369
-18-20-	1.881
Dist_16-17	1.486
L	2.093

Q2_3	MAE	MSQ	Q2_5	MAE	MSQ	LOO	MAE	MSQ	LOO
0.629	0.103	0.115	0.630	0.101	0.115	0.682	0.097	0.107	



# Predicted vs Measured

