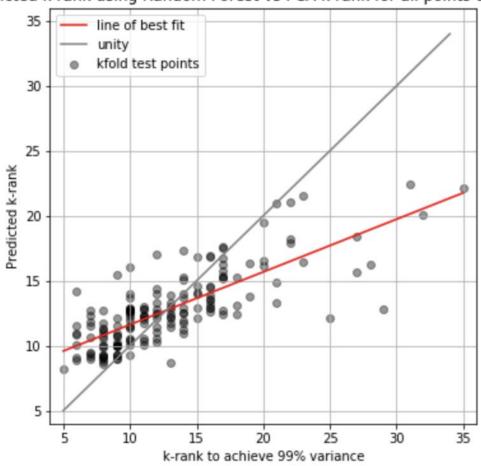
Feature importance for RandomForest including all features:

{'binned_complexity': 0.12, 'horizontal_complexity': 0.08, 'length_soma': 0.03, 'avg_length_dendrite': 0.03, 'avg length axon': 0.01, 'total_length_dendrite': 0.03, 'total_length_axon': 0.01, 'length_dendrite_var': 0.03, 'length axon var': 0.01, 'count_axon': 0.01, 'count_dendrite': 0.0, 'avg_diameter_dendrite': 0.01, 'avg_diameter_axon': 0.03, 'var_diameter_dendrite': 0.03, 'var diameter axon': 0.0, 'm type': 0.23, 'e_type': 0.34,

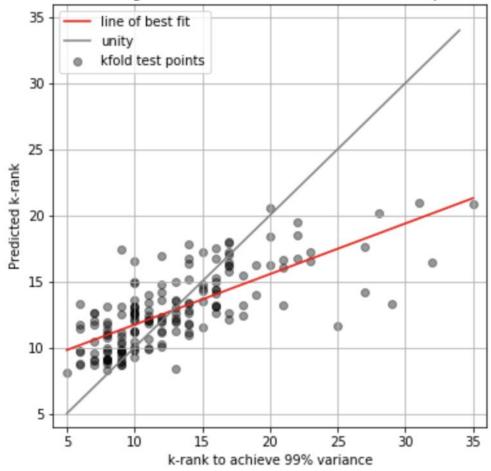
'level': 0.0}



Feature importance for RandomForest removing m_type and layers:

{'binned_complexity': 0.16, 'horizontal_complexity': 0.12, 'length_soma': 0.04, 'avg_length_dendrite': 0.03, 'avg_length_axon': 0.01, 'total_length_dendrite': 0.03, 'total_length_axon': 0.01, 'length_dendrite_var': 0.03, 'length_axon_var': 0.01, 'count_axon': 0.01, 'count_dendrite': 0.01, 'avg_diameter_dendrite': 0.01, 'avg_diameter_dendrite': 0.04, 'var_diameter_axon': 0.01, 'var_diameter_axon': 0.01,

'e_type': 0.45}



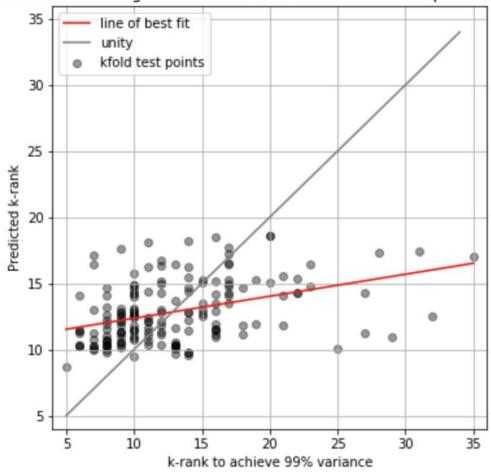
Feature importance for RandomForest removing m_type and e_type and layers:

{'binned_complexity': 0.32, 'horizontal_complexity': 0.29,

'length_soma': 0.06,

'avg_length_dendrite': 0.04,
'avg_length_axon': 0.02,
'total_length_dendrite': 0.05,
'total_length_axon': 0.02,
'length_dendrite_var': 0.05,
'length_axon_var': 0.02,
'count_axon': 0.02,

'count_dendrite': 0.01, 'avg_diameter_dendrite': 0.01, 'avg_diameter_axon': 0.06, 'var_diameter_dendrite': 0.05, 'var_diameter_axon': 0.01}

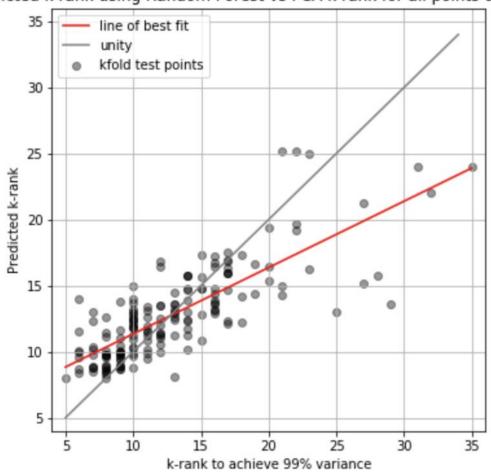


Choosing only feature provided by Lasso

{'binned_complexity': 0.13, 'length_soma': 0.03, 'avg_length_dendrite': 0.04, 'avg_length_axon': 0.01, 'total_length_dendrite': 0.05, 'length_axon_var': 0.01,

'avg_diameter_axon': 0.03, 'var_diameter_axon': 0.0,

'm_type': 0.26, 'e_type': 0.43,}

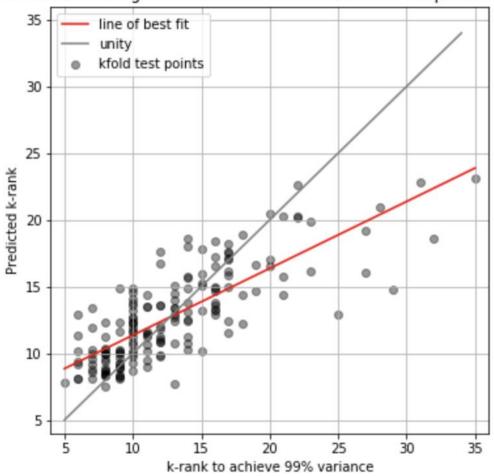


Removing M-type from Lasso features

Feature importance

{'binned_complexity': 0.19, 'length_soma': 0.04, 'avg_length_dendrite': 0.04, 'avg_length_axon': 0.01, 'total_length_dendrite': 0.05, 'length_axon_var': 0.01, 'avg_diameter_axon': 0.05, 'var_diameter_axon': 0.01,

'e_type': 0.61}



Removing M-type and E-type from Lasso features

Feature importance

{'binned_complexity': 0.58,

'length_soma': 0.1,

'avg_length_dendrite': 0.07,
'avg_length_axon': 0.02,
'total_length_dendrite': 0.08,
'length_axon_var': 0.02,
'avg_diameter_axon': 0.1,
'var_diameter_axon': 0.01}

