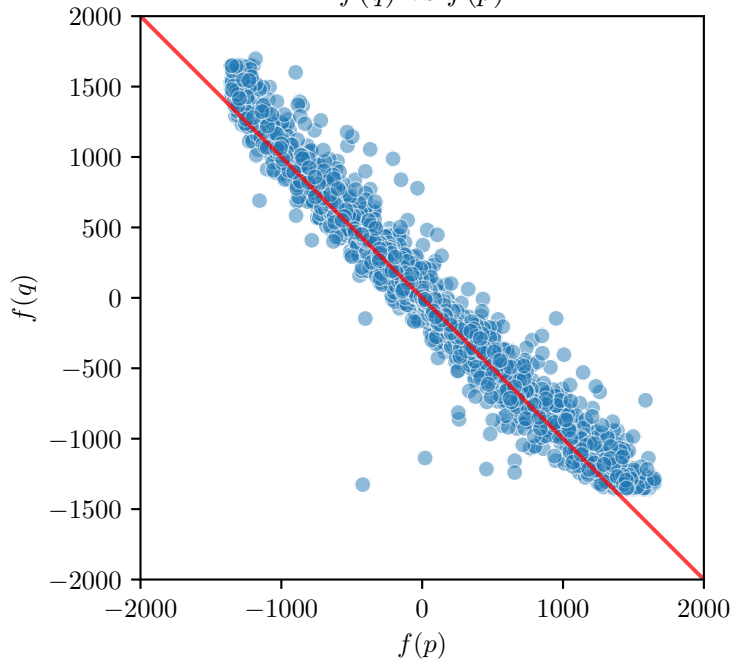PQR analysis for a network trained with target scores