glcm InverseVariance
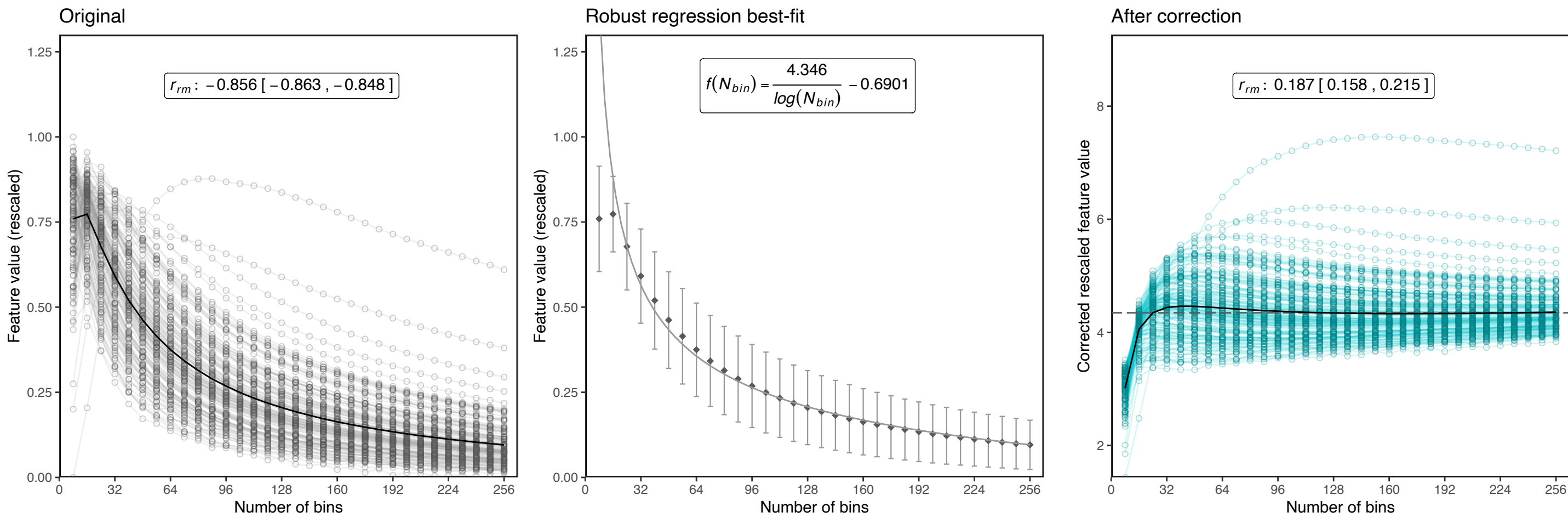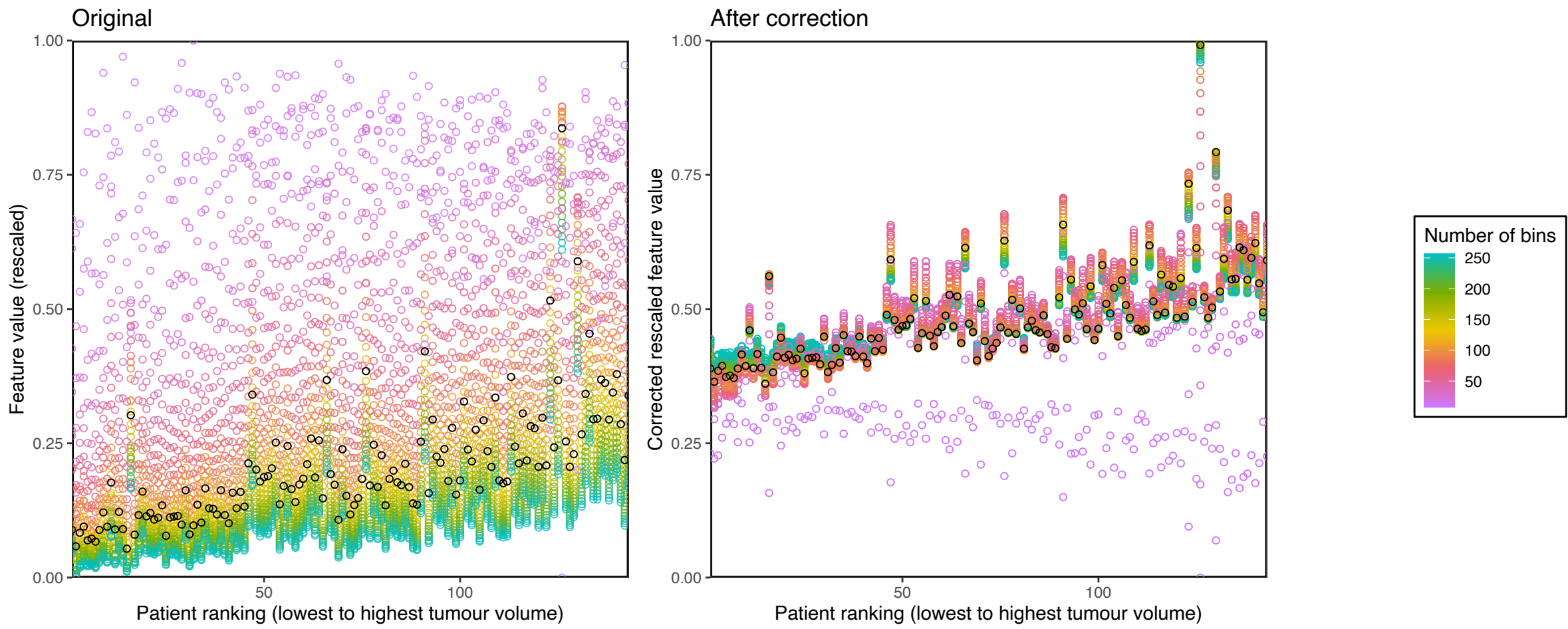
Robustness: Not robust
Operational range: Absent
Feature correctability: Correctable

Regression modelling to correct features

Original

$r_{rm}: -0.856 \, [\, -0.863 \,, \, -0.848 \,]$

Robust regression best-fit

$f(N_{bin}) = \dfrac{4.346}{log(N_{bin})} - 0.6901$

After correction

$r_{rm}: 0.187 \, [\, 0.158 \,, \, 0.215 \,]$

Feature response to number of bins for each patient, before and after correction

Original

After correction

Number of bins
250
200
150
100
50

Feature value dispersions per patient, before and after correction

Wilcoxon test : $p \le 0.001$

81.87

7.87

Features
Corrected
Original