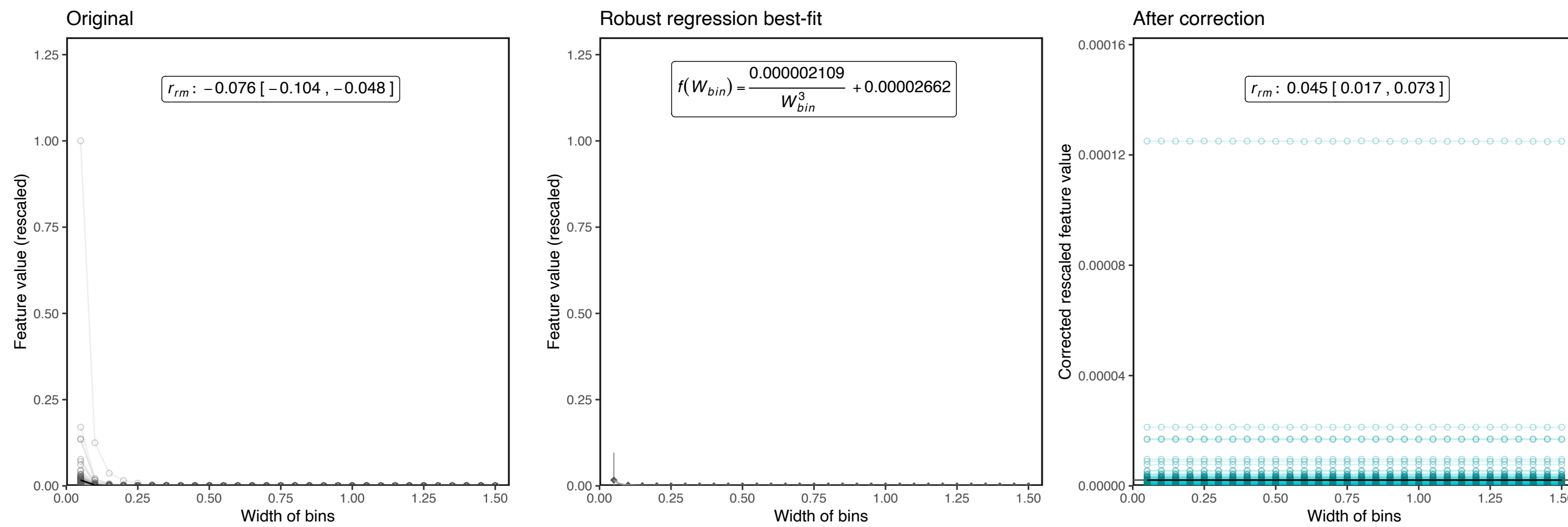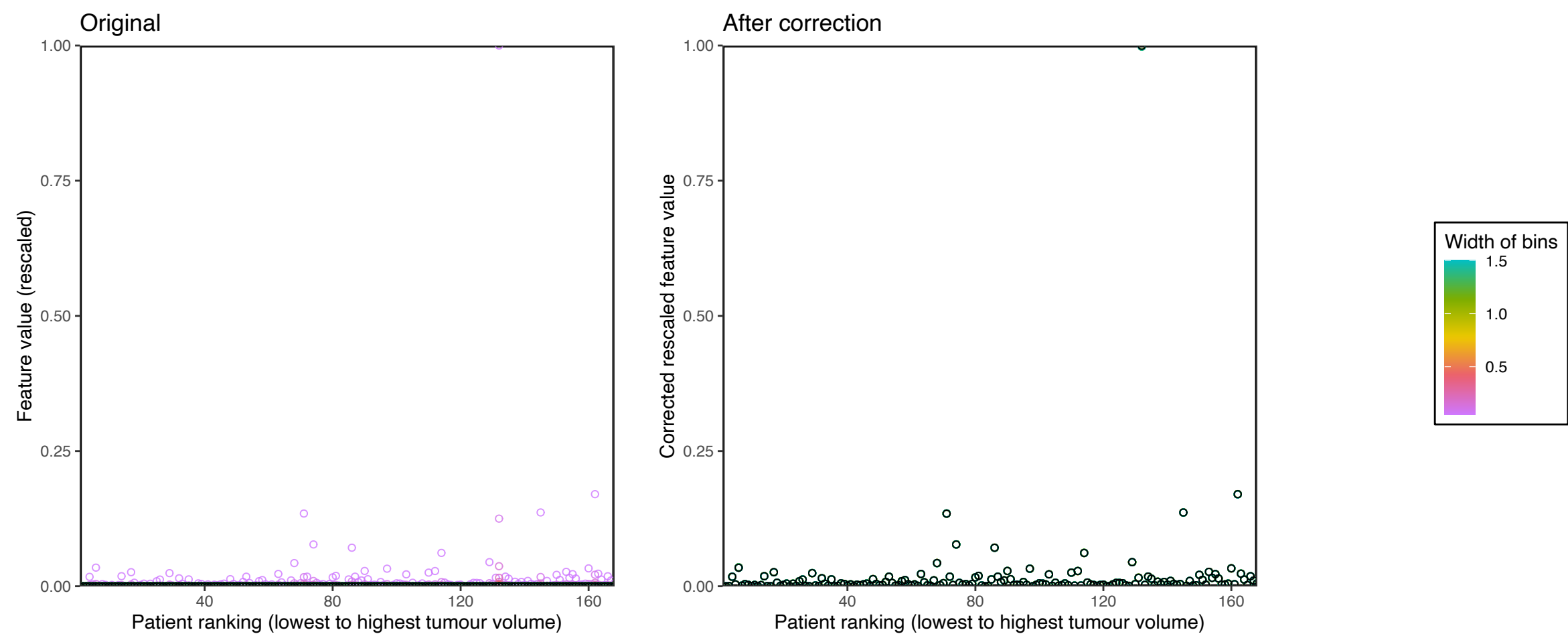# glcm ClusterShade

Robustness: Conditionally robust
Operational range: Present
Feature correctability: Correctable

Regression modelling to correct features

Original

$r_{rm}: -0.076 \, [\, -0.104 \, , \, -0.048 \,]$

Robust regression best-fit

$$f(W_{bin}) = \frac{0.000002109}{W_{bin}^3} + 0.00002662$$

After correction

$r_{rm}: 0.045 \, [\, 0.017 \, , \, 0.073 \,]$

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

Original

After correction

Width of bins
1.5
1.0
0.5

Feature value dispersions per patient, before and after correction

Wilcoxon test : $p \leq 0.001$

352.43

1.41

Features
○ Corrected
○ Original