Feature importance (normalized) -- species richness vs. WHONDRS data features

| | Stream_Order | Sediment | US_Water.Column.Height_cm | US_Sunlight.Access_Perc.Canopy.Cover | MS_Water.Column.Height_cm | MS_Sunlight.Access_Perc.Canopy.Cover | DS_Water.Column.Height_cm | DS_Sunlight.Access_Perc.Canopy.Cover | SW_pH | DO_perc.sat | DO_mg.per.L | SW_Temp_degC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F-test | 0.24 | 0.15 | 0.36 | 0.043 | 0.27 | 0.21 | 0.36 | 0.34 | 0.75 | 0.25 | 0.34 | 1 |
| MI | 0.17 | 0.66 | 0.069 | 0.13 | 0.24 | 0.18 | 0.15 | 0.15 | 0.21 | 0.038 | 1 | 0.29 |
| RF | 0.18 | 0.16 | 0.68 | 0.25 | 0.44 | 0.18 | 1 | 0.12 | 0.32 | 0.61 | 0.73 | 0.7 |
| SHAPley | 0.21 | 0.25 | 0.81 | 0.27 | 0.41 | 0.41 | 0.99 | 0.23 | 0.5 | 0.64 | 0.89 | 1 |
| Pearson | 0.43 | 0.58 | 0.82 | 0.18 | 0.78 | 0.47 | 0.7 | 0.45 | 0.67 | 0.32 | 0.49 | 1 |
| Spearsman | 0.46 | 0.72 | 0.88 | 0.21 | 0.8 | 0.53 | 0.74 | 0.44 | 0.68 | 0.44 | 0.61 | 1 |
| Avg-value | 0.28 | 0.42 | 0.6 | 0.18 | 0.49 | 0.33 | 0.66 | 0.29 | 0.52 | 0.38 | 0.68 | 0.83 |