| **Table 1.** *Cross-validation results across benchmarks and datasets* | | | | | |
| --- | --- | --- | --- | --- | --- |
| dataset | benchmark | R^2 | +/- | MAE | +/- |
| Cam-CAN | deep | 0.61 | 0.11 | 8.85 | 0.11 |
| Cam-CAN | shallow | 0.68 | 0.04 | 8.34 | 0.04 |
| Cam-CAN | filterbank-source | 0.69 | 0.06 | 8.10 | 0.06 |
| Cam-CAN | filterbank-riemann | 0.72 | 0.05 | 7.65 | 0.05 |
| Cam-CAN | handcrafted | 0.47 | 0.09 | 10.93 | 0.09 |
| Cam-CAN | dummy | -0.02 | 0.03 | 15.90 | 0.03 |
| LEMON | deep | 0.68 | 0.16 | 7.71 | 0.16 |
| LEMON | shallow | 0.67 | 0.09 | 9.05 | 0.09 |
| LEMON | filterbank-source | 0.59 | 0.13 | 9.87 | 0.13 |
| LEMON | filterbank-riemann | 0.51 | 0.13 | 11.00 | 0.13 |
| LEMON | handcrafted | 0.51 | 0.13 | 10.26 | 0.13 |
| LEMON | dummy | -0.13 | 0.17 | 18.70 | 0.17 |
| CHBP | deep | -0.16 | 0.30 | 7.35 | 0.30 |
| CHBP | shallow | 0.05 | 0.31 | 6.70 | 0.31 |
| CHBP | filterbank-source | -1.49 | 4.67 | 7.76 | 4.67 |
| CHBP | filterbank-riemann | -0.01 | 0.13 | 7.17 | 0.13 |
| CHBP | handcrafted | 0.18 | 0.17 | 6.48 | 0.17 |
| CHBP | dummy | -0.04 | 0.05 | 7.33 | 0.05 |
| TUAB | deep | 0.59 | 0.05 | 8.13 | 0.05 |
| TUAB | shallow | 0.60 | 0.04 | 7.96 | 0.04 |
| TUAB | filterbank-source | 0.47 | 0.07 | 9.38 | 0.07 |
| TUAB | filterbank-riemann | 0.58 | 0.04 | 8.10 | 0.04 |
| TUAB | handcrafted | 0.26 | 0.05 | 11.33 | 0.05 |
| TUAB | dummy | -0.01 | 0.01 | 13.55 | 0.01 |