| **Table 1.** *Aggregate cross-validation results across benchmarks and datasets* | | | | | |
| --- | --- | --- | --- | --- | --- |
| dataset | benchmark | R2(M) | R2(SD) | MAE(M) | MAE(SD) |
| Cam-CAN (MEG) | deep | 0.66 | 0.05 | 8.29 | 0.74 |
| Cam-CAN (MEG) | shallow | 0.69 | 0.03 | 8.14 | 0.90 |
| Cam-CAN (MEG) | filterbank-source | 0.69 | 0.06 | 8.10 | 1.11 |
| Cam-CAN (MEG) | filterbank-riemann | 0.72 | 0.05 | 7.65 | 0.81 |
| Cam-CAN (MEG) | handcrafted | 0.49 | 0.07 | 10.65 | 0.98 |
| Cam-CAN (MEG) | dummy | -0.02 | 0.03 | 15.90 | 1.22 |
| LEMON (EEG) | deep | 0.65 | 0.20 | 7.78 | 2.25 |
| LEMON (EEG) | shallow | 0.69 | 0.08 | 8.80 | 1.58 |
| LEMON (EEG) | filterbank-source | 0.65 | 0.12 | 8.93 | 1.56 |
| LEMON (EEG) | filterbank-riemann | 0.51 | 0.13 | 11.00 | 1.73 |
| LEMON (EEG) | handcrafted | 0.50 | 0.13 | 10.26 | 1.76 |
| LEMON (EEG) | dummy | -0.13 | 0.17 | 18.70 | 1.60 |
| CHBP (EEG) | deep | -0.10 | 0.28 | 7.14 | 0.65 |
| CHBP (EEG) | shallow | 0.03 | 0.38 | 6.74 | 0.96 |
| CHBP (EEG) | filterbank-source | -1.49 | 4.67 | 7.76 | 2.05 |
| CHBP (EEG) | filterbank-riemann | -0.01 | 0.13 | 7.17 | 0.63 |
| CHBP (EEG) | handcrafted | 0.19 | 0.19 | 6.40 | 0.61 |
| CHBP (EEG) | dummy | -0.04 | 0.05 | 7.33 | 0.83 |
| TUAB (EEG) | deep | 0.58 | 0.08 | 7.99 | 0.55 |
| TUAB (EEG) | shallow | 0.61 | 0.04 | 7.82 | 0.38 |
| TUAB (EEG) | filterbank-source | 0.53 | 0.06 | 8.58 | 0.51 |
| TUAB (EEG) | filterbank-riemann | 0.58 | 0.04 | 8.10 | 0.26 |
| TUAB (EEG) | handcrafted | 0.26 | 0.04 | 11.32 | 0.53 |
| TUAB (EEG) | dummy | -0.01 | 0.01 | 13.55 | 0.82 |