| **Table 1.** *Aggregate cross-validation results across benchmarks and datasets* | | | | | |
| --- | --- | --- | --- | --- | --- |
| dataset | benchmark | R2(M) | R2(SD) | MAE(M) | MAE(SD) |
| Cam-CAN (MEG) | deep | 0.63 | 0.11 | 8.74 | 1.23 |
| Cam-CAN (MEG) | shallow | 0.72 | 0.03 | 7.65 | 0.51 |
| Cam-CAN (MEG) | filterbank-source | 0.69 | 0.07 | 8.16 | 1.22 |
| Cam-CAN (MEG) | filterbank-riemann | 0.74 | 0.04 | 7.30 | 0.72 |
| Cam-CAN (MEG) | handcrafted | 0.49 | 0.06 | 10.68 | 1.00 |
| Cam-CAN (MEG) | dummy | -0.02 | 0.03 | 15.90 | 1.22 |
| LEMON (EEG) | deep | 0.69 | 0.16 | 7.75 | 1.78 |
| LEMON (EEG) | shallow | 0.69 | 0.09 | 8.67 | 1.89 |
| LEMON (EEG) | filterbank-source | 0.67 | 0.11 | 8.67 | 1.07 |
| LEMON (EEG) | filterbank-riemann | 0.54 | 0.13 | 10.78 | 1.88 |
| LEMON (EEG) | handcrafted | 0.51 | 0.11 | 10.23 | 1.78 |
| LEMON (EEG) | dummy | -0.13 | 0.17 | 18.70 | 1.60 |
| CHBP (EEG) | deep | 0.01 | 0.29 | 6.89 | 0.99 |
| CHBP (EEG) | shallow | 0.11 | 0.27 | 6.65 | 0.87 |
| CHBP (EEG) | filterbank-source | -1.47 | 4.58 | 7.76 | 2.07 |
| CHBP (EEG) | filterbank-riemann | -0.01 | 0.13 | 7.17 | 0.63 |
| CHBP (EEG) | handcrafted | 0.18 | 0.17 | 6.48 | 0.60 |
| CHBP (EEG) | dummy | -0.04 | 0.05 | 7.33 | 0.83 |
| TUAB (EEG) | deep | 0.60 | 0.06 | 7.75 | 0.56 |
| TUAB (EEG) | shallow | 0.61 | 0.04 | 7.80 | 0.41 |
| TUAB (EEG) | filterbank-source | 0.56 | 0.06 | 8.43 | 0.57 |
| TUAB (EEG) | filterbank-riemann | 0.56 | 0.05 | 8.25 | 0.41 |
| TUAB (EEG) | handcrafted | 0.33 | 0.04 | 10.75 | 0.64 |
| TUAB (EEG) | dummy | -0.01 | 0.01 | 13.55 | 0.82 |