Supplement 6

Standardized estimates of factor loadings with standard errors for general and nested factors of CT – preregistered and post-hoc modified models

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  | General ROIs | Face-Related ROIs |
|  |  |  | Vis | PM | SPC | dlPFC | FFA | OFA | pSTS |
|  | Model | Factor | Est | SE | Est | SE | Est | SE | Est | SE | Est | SE | Est | SE | Est | SE |
| ROI 5 mm as preregistered | CTG L | CTG | .515 | .053 | .906 | .014 | .755 | .022 | .865 | .014 | .274 | .043 | .245 | .032 | .327 | .045 |
| CTG + CTF L | CTG | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CTF | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CTG R | CTG | .544 | .033 | .838 | .018 | .785 | .017 | .791 | .021 | .514 | .031 | .523 | .031 | .651 | .026 |
| CTG + GTF R | CTG | .475 | .033 | .887 | .014 | .752 | .019 | .829 | .017 | .247 | .039 | .256 | .037 | .267 | .037 |
| CTF | - | - | - | - | - | - | - | - | .125 | .085 | .224 | .121 | .069 | .073 |
|  |  |  | General ROIs | Face-Related ROIs |
|  |  |  | Vis | PM | SPC | dlPFC | FFA | OFA | pSTS |
|  | Model | Factor | Est | SE | Est | SE | Est | SE | Est | SE | Est | SE | Est | SE | Est | SE |
| ROI 10 mm | CTG L | CTG | .598 | .047 | .782 | .030 | .845 | .017 | .739 | .030 | .379 | .042 | .359 | .037 | .482 | .046 |
| CTG + CTF L | CTG | .594 | .048 | .784 | .031 | .848 | .018 | .741 | .031 | .377 | .043 | .352 | .038 | .480 | .046 |
| CTF |  |  |  |  |  |  |  |  | .496 | .407 | .254 | .203 | .024 | .073 |
| CTG R | CTG | .543 | .031 | .769 | .023 | .848 | .020 | .715 | .025 | .310 | .036 | .374 | .035 | .401 | .035 |
| CTG + GTF R | CTG | .540 | .032 | .773 | .023 | .844 | .021 | .720 | .025 | .314 | .037 | .390 | .036 | .406 | .036 |
| CTF |  |  |  |  |  |  |  |  | .086 | .095 | .266 | .175 | .095 | .069 |
|  |  |  | General ROIs | Face-Related ROIs |
|  |  |  | Vis | PM | SPC | dlPFC | FFA | OFA | pSTS |
|  | Model | Factor | Est | SE | Est | SE | Est | SE | Est | SE | Est | SE | Est | SE | Est | SE |
| ROI mask across-subject | CTG L | CTG | .671 | .042 | .735 | .033 | .790 | .019 | .685 | .033 | .628 | .045 | .661 | .032 | .767 | .029 |
| CTG + CTF L | CTG | .634 | .076 | .758 | .063 | .815 | .037 | .709 | .051 | .571 | .075 | .604 | .055 | .725 | .066 |
| CTF |  |  |  |  |  |  |  |  | .395 | .074 | .348 | .079 | .213 | .055 |
| CTG R | CTG | .618 | .029 | .743 | .023 | .783 | .022 | .679 | .028 | .556 | .031 | .580 | .031 | .701 | .024 |
| CTG + GTF R | CTG | .579 | .041 | .758 | .035 | .805 | .036 | .699 | .038 | .506 | .041 | .527 | .039 | .660 | .037 |
| CTF |  |  |  |  |  |  |  |  | .384 | .074 | .338 | .070 | .261 | .058 |

*Note.* CTG – general factor of cortical thickness; CTF – nested factor of CT in face-related brain areas. CTG – general factor of CT; CTF – nested factor of CT in face-related brain areas. Indicated by local CT in brain regions: Vis – primary and secondary visual cortices; PM – premotor cortex; SPC – superior parietal cortex; DLPFC – dorsolateral prefrontal cortex; FFA – fusiform face area; OFA – occipital face area; pSTS – posterior superior temporal sulcus.

Supplementary material to the following article:

Meyer, K., Garzón, B., Lövdén, M., Hildebrandt, A. (2019). Are Global and Specific Interindividual Differences in Cortical Thickness Associated with Facets of Cognitive Abilities, Including Face Cognition? Royal Society Open Science.