**Bilingual experiences induce dynamic changes of basal ganglia and thalamus**

**Supplementary materials**

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| Model diagnostics: LSBQ as predictor of caudate volumes (second-level model) | | | | |
| Model: *gam(Volume ~ s(subject, bs= "re") + s(Age) + s(Gender , bs = "re") + Hemisphere + s(LSBQ), data = dat.caudate, method = “REML”)* | | | | |
| Smooth term | K (number of basis functions) | Estimated degrees of freedom | k-index | p-value of significant patterns in residuals |
| Age | 10 | 1.00 | 1.09 | 0.91 |
| LSBQ | 10 | 3.32 | 1.36 | 1.00 |
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| Model diagnostics: LSBQ as predictor of accumbens volumes (second-level model) | | | | |
| Model: *gam(Volume ~ s(subject, bs= "re") + s(Age) + s(Gender , bs = "re") + Hemisphere + s(LSBQ), data = dat.accumbens, method = “REML”)* | | | | |
| Smooth term | K (number of basis functions) | Estimated degrees of freedom | k-index | p-value of significant patterns in residuals |
| Age | 10 | 1.68 | 0.98 | 0.32 |
| LSBQ | 10 | 1.96 | 1.30 | 1.00 |

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| Model diagnostics: LSBQ as predictor of putamen volumes (second-level model) | | | | |
| Model: *gam(Volume ~ s(subject, bs= "re") + s(Age) + s(Gender , bs = "re") + Hemisphere + s(LSBQ), data = dat.putamen, method = “REML”)* | | | | |
| Smooth term | K (number of basis functions) | Estimated degrees of freedom | k-index | p-value of significant patterns in residuals |
| Age | 10 | 1.00 | 0.95 | 0.19 |
| LSBQ | 10 | 1.00 | 1.33 | 1.00 |

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| Model diagnostics: LSBQ as predictor of thalamus volumes (second-level model) | | | | |
| Model: *gam(Volume ~ s(subject, bs= "re") + s(Age) + s(Gender , bs = "re") + Hemisphere + s(LSBQ), data = dat.thalamus, method = “REML”)* | | | | |
| Smooth term | K (number of basis functions) | Estimated degrees of freedom | k-index | p-value of significant patterns in residuals |
| Age | 10 | 1.95 | 1.10 | 0.93 |
| LSBQ | 10 | 1.00 | 1.42 | 1.00 |

1. Code for the volumetric analysis
2. First level model: Effects of bilingual experiences on volumetric changes in left and right hemisphere
3. GAMMs with Hemisphere as ordered factor, looking at LSBQ x Hemisphere interactions, examined for each level of Hemisphere separately. The same model was built for each region (here marked as region, the concrete regions tested were the following: {caudate, accumbens, putamen, pallidum, thalamus}). These only produced p values for the interaction, and were followed up with second level model for the interaction to be unpacked. Subject and gender treated as random effects.

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# Ordered factor for Hemisphere, and set contrast; Ref. = left

dat.region$Hemisphere <- relevel(dat.region$Hemisphere, ref= "left")

dat.region$OFHemisphere <- as.ordered(dat.region$Hemisphere)

contrasts(dat.region$OFHemisphere) <- 'contr.treatment'

contrasts(dat.region$OFHemisphere)

gam.LSBQL.region <- gam(Volume ~ s(subject, bs= "re") + s(Age) + s(Gender , bs = "re") +

OFHemisphere + s(LSBQ, by = OFHemisphere) + s(LSBQ),

data = dat.region, method = "REML")

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# Ordered factor for Hemisphere, and set contrast; Ref= right

dat.region$Hemisphere <- relevel(dat.region$Hemisphere, ref= "right")

dat.region$OFHemisphere <- as.ordered(dat.region$Hemisphere)

contrasts(dat.region$OFHemisphere) <- 'contr.treatment'

contrasts(dat.region$OFHemisphere)

gam.LSBQR.region <- gam(Volume ~ s(subject, bs= "re") + s(Age) + s(Gender , bs = "re") +

OFHemisphere + s(LSBQ, by = OFHemisphere) + s(LSBQ),

data = dat.region, method = "REML")

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1. Second level model
2. If the LSBQ x Hemisphere interaction as examined above emerges significant, we look at each level of Hemisphere separately and produce separate smooths per group. Gender treated as random effects.

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# GAMM for the effects of LSBQ in the left hemisphere

gam.LSBQ.region.splitL <- gam(Volume ~ s(Age) + s(Gender , bs = "re") + s(LSBQ),

data = dat.region.left, method = "REML")

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# GAMM for the effects of LSBQ in the right hemisphere

gam.LSBQ.region.splitR <- gam(Volume ~ s(Age) + s(Gender , bs = "re") + s(LSBQ),

data = dat.region.right, method = "REML")

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1. Second-level model looking at effects of bilingual experiences (LSBQ) on volumes of each region of interest collapsed across hemispheres. Applied on all regions for which the LSBQ x Hemisphere interaction (see above) did not emerge as significant predictor. Age was included as a smooth term (main effect) to account for natural decline in volumes due to aging. Hemisphere was used as a main effect (categorical) (to account for differences in mean volumes in each hemisphere), subject and gender as random effects.

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gam.LSBQ.region <- gam(Volume ~ s(subject, bs= "re") + s(Age) + s(Gender , bs = "re") + Hemisphere + s(LSBQ), data = dat.region, method = "REML")

-----3. Results from the first-level models

separate GAMs for each level of hemisphere as reference levels in each region of interest, looking at the effects of LSBQxHemisphere interaction on the subcortical brain volumes

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| CAUDATE |  |  |
| Reference level of Hemisphere | Left | Right |
| LSBQ | 0.001 | >0.001 |
| Age | 0.003 | 0.003 |
| Hemisphere | 0.008 | 0.009 |
| LSBQ x hemisphere | **0.375** | **0.780** |
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| ACCUMBENS |  |  |
| Reference level of Hemisphere | Left | Right |
| LSBQ | 0.038 | 0.047 |
| Age | 0.374 | 0.247 |
| Hemisphere | <0.001 | <0.001 |
| LSBQ x hemisphere | **0.378** | **0.868** |
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| PUTAMEN |  |  |
| Reference level of Hemisphere | Left | Right |
| LSBQ | 0.086 | 0.015 |
| Age | 0.013 | 0.013 |
| Hemisphere | <0.001 | <0.001 |
| LSBQ x hemisphere | **0.286** | **0.281** |
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| PALLIDUM |  |  |
| Reference level of Hemisphere | Left | Right |
| LSBQ | 0.553 | 0.259 |
| Age | 0.468 | 0.527 |
| Hemisphere | 0.465 | 0.465 |
| LSBQ x hemisphere | **0.0415\*** | **0.0421\*** |
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| THALAMUS |  |  |
| Reference level of Hemisphere | Left | Right |
| LSBQ | 0.016 | 0.019 |
| Age | 0.055 | 0.065 |
| Hemisphere | <0.001 | <0.001 |
| LSBQ x hemisphere | **0.918** | **0.941** |
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| 4. Data for the volumetric analysis (the brain volumes are normalised and multiplied by 10000) | | | | | | | | | | | | | | | | | | |
| Subject | Gender | Age | LSBQ | L\_accumbens | L\_amygdala | L\_caudate | L\_hippo | L\_pallidum | L\_putamen | L\_thalamus | R\_accumbens | R\_amygdala | R\_caudate | R\_hippo | R\_pallidum | R\_putamen | R\_thalamus | whole\_brain\_raw |
| 3777B | Female | 31 | 5.0984329 | 4.16 | 10.83 | 28.78 | 21.69 | 13.70 | 33.56 | 58.36 | 3.89 | 11.17 | 30.38 | 22.26 | 12.56 | 36.57 | 56.31 | 13176886250.00 |
| 3778B | Male | 40 | 1.2953917 | 3.61 | 10.57 | 26.36 | 25.31 | 12.43 | 33.04 | 53.02 | 2.99 | 13.08 | 26.12 | 28.54 | 11.15 | 31.95 | 55.52 | 16258503750.00 |
| 3800B | Female | 33 | 0.4818283 | 4.22 | 11.23 | 26.91 | 29.96 | 12.37 | 33.47 | 60.34 | 3.79 | 9.66 | 26.27 | 20.10 | 12.72 | 34.78 | 54.44 | 14906956250.00 |
| 3785B | Male | 27 | -2.5564636 | 2.88 | 9.07 | 24.15 | 23.85 | 12.55 | 32.41 | 55.33 | 1.79 | 9.11 | 26.46 | 25.81 | 11.80 | 34.32 | 57.70 | 14445907500.00 |
| 3686B | Female | 27 | 1.5228471 | 3.04 | 11.43 | 25.14 | 21.33 | 10.85 | 36.89 | 61.90 | 3.00 | 11.47 | 25.71 | 25.49 | 11.26 | 34.15 | 58.52 | 15879382500.00 |
| 3798B | Male | 31 | 6.1499241 | 3.82 | 10.23 | 24.09 | 24.78 | 11.36 | 33.21 | 59.82 | 3.51 | 10.34 | 26.84 | 25.88 | 12.38 | 33.38 | 58.26 | 16138001250.00 |
| 3799B | Female | 33 | 7.0661814 | 4.40 | 10.40 | 29.40 | 27.62 | 13.65 | 37.60 | 63.94 | 3.97 | 12.69 | 30.42 | 27.29 | 12.93 | 38.62 | 62.02 | 12253955000.00 |
| 3801B | Male | 30 | 3.2731557 | 2.44 | 11.32 | 24.45 | 26.70 | 11.23 | 32.59 | 55.58 | 1.75 | 14.40 | 20.06 | 27.50 | 11.16 | 32.17 | 57.83 | 16378883750.00 |
| 3802B | Female | 23 | 3.5445323 | 4.01 | 10.41 | 26.01 | 22.20 | 11.64 | 34.76 | 60.97 | 2.57 | 10.33 | 27.66 | 27.75 | 12.48 | 32.17 | 58.57 | 14015957500.00 |
| 3803B | Female | 27 | 4.5801734 | 4.11 | 10.43 | 27.03 | 25.46 | 11.57 | 30.04 | 57.59 | 3.50 | 9.55 | 24.19 | 27.39 | 12.34 | 29.91 | 55.36 | 14696036250.00 |
| 3804B | Female | 34 | -1.1236769 | 2.93 | 9.96 | 26.15 | 22.10 | 12.31 | 33.91 | 59.72 | 2.52 | 11.08 | 26.14 | 26.40 | 11.85 | 34.55 | 58.83 | 13942877500.00 |
| 3806B | Female | 51 | 4.3240945 | 4.47 | 8.82 | 23.69 | 27.76 | 12.11 | 36.95 | 54.81 | 3.50 | 9.66 | 24.52 | 30.11 | 12.19 | 34.25 | 53.29 | 13256411250.00 |
| 3807B | Male | 44 | 0.9240774 | 5.06 | 12.42 | 25.31 | 30.23 | 12.47 | 36.26 | 61.21 | 3.85 | 7.72 | 26.23 | 32.25 | 12.00 | 35.97 | 59.16 | 15834625000.00 |
| 3808B | Male | 33 | 4.7434871 | 3.89 | 11.39 | 29.46 | 26.30 | 12.56 | 36.97 | 66.89 | 2.89 | 10.29 | 31.42 | 25.22 | 13.66 | 37.73 | 62.32 | 12937053750.00 |
| 3809B | Female | 35 | 13.04884 | 4.83 | 11.77 | 27.46 | 26.90 | 11.77 | 35.64 | 58.39 | 4.38 | 13.73 | 24.95 | 25.27 | 11.91 | 35.63 | 55.77 | 13627571250.00 |
| 3810B | Female | 22 | 5.79194 | 4.65 | 8.88 | 27.24 | 23.62 | 12.13 | 38.09 | 60.42 | 3.65 | 8.04 | 32.39 | 25.47 | 12.70 | 36.37 | 59.13 | 12239878750.00 |
| 3811B | Male | 22 | 9.0103598 | 3.13 | 10.25 | 25.06 | 28.92 | 11.79 | 33.41 | 61.27 | 3.14 | 11.81 | 25.50 | 24.92 | 11.53 | 30.58 | 58.83 | 15677668750.00 |
| 3812B | Male | 45 | 4.2710582 | 2.91 | 12.23 | 22.86 | 26.61 | 12.24 | 32.30 | 55.60 | 2.38 | 11.57 | 23.23 | 26.01 | 12.20 | 32.92 | 52.98 | 15115602500.00 |
| 3813B | Female | 20 | 1.9104565 | 5.30 | 10.62 | 29.63 | 26.87 | 12.97 | 35.72 | 57.38 | 3.80 | 8.84 | 32.86 | 29.69 | 12.92 | 34.75 | 56.53 | 14287472500.00 |
| 3814B | Female | 26 | 10.562007 | 4.66 | 9.04 | 28.02 | 25.90 | 12.40 | 35.28 | 64.89 | 3.93 | 8.20 | 30.15 | 29.64 | 12.85 | 37.05 | 61.48 | 12830185000.00 |
| 3816B | Female | 29 | 2.4261103 | 4.09 | 12.03 | 24.16 | 18.96 | 12.53 | 32.88 | 58.54 | 2.44 | 9.20 | 26.99 | 21.59 | 12.32 | 29.52 | 57.90 | 14213298750.00 |
| 3815B | Female | 20 | 0.6057319 | 3.16 | 10.21 | 24.65 | 30.02 | 11.48 | 34.60 | 57.62 | 2.16 | 11.38 | 24.88 | 26.62 | 11.56 | 30.97 | 58.51 | 13215896250.00 |
| 3817B | Male | 20 | 8.9508882 | 3.98 | 11.44 | 27.77 | 26.60 | 10.90 | 33.98 | 56.84 | 3.90 | 12.55 | 27.38 | 24.82 | 10.92 | 32.47 | 56.49 | 15595335000.00 |
| 3820B | Male | 40 | 3.8787968 | 3.39 | 12.07 | 24.72 | 28.15 | 11.51 | 33.19 | 56.14 | 2.63 | 10.51 | 28.06 | 26.31 | 11.43 | 34.61 | 54.12 | 15967006250.00 |
| 3821B | Female | 44 | 4.6234428 | 4.04 | 9.25 | 23.15 | 32.17 | 10.51 | 25.90 | 55.02 | 3.11 | 11.99 | 23.07 | 23.95 | 10.84 | 25.42 | 53.96 | 15006010000.00 |
| 3823B | Female | 27 | 10.908805 | 3.96 | 10.44 | 25.64 | 28.37 | 11.60 | 31.85 | 56.52 | 3.35 | 9.90 | 27.38 | 26.32 | 11.76 | 33.38 | 54.31 | 15381843750.00 |
| 3824B | Female | 25 | -0.0363199 | 3.92 | 12.14 | 24.39 | 26.42 | 11.02 | 31.73 | 64.26 | 2.76 | 11.49 | 26.05 | 27.00 | 11.75 | 29.85 | 59.98 | 14325377500.00 |
| 3825B | Male | 28 | 12.802218 | 4.98 | 10.10 | 28.76 | 27.11 | 11.90 | 35.87 | 62.75 | 4.16 | 12.84 | 31.65 | 26.00 | 12.57 | 36.77 | 60.33 | 14836727500.00 |
| 3826B | Female | 22 | -0.3081331 | 2.87 | 8.32 | 28.42 | 26.36 | 12.77 | 40.06 | 56.82 | 2.31 | 12.53 | 30.42 | 25.95 | 12.60 | 38.88 | 57.55 | 12375076250.00 |
| 3827B | Female | 32 | 4.7749033 | 3.50 | 11.01 | 26.15 | 27.62 | 12.51 | 33.69 | 58.73 | 3.44 | 11.36 | 27.08 | 25.41 | 12.88 | 32.56 | 59.31 | 16184945000.00 |
| 3922B | Male | 31 | 5.0952573 | 3.50 | 11.01 | 26.15 | 27.62 | 12.51 | 33.69 | 58.73 | 3.44 | 11.36 | 27.08 | 25.41 | 12.88 | 32.56 | 59.31 | 16184945000.00 |
| 3872B | Female | 26 | 5.6268425 | 4.01 | 10.52 | 30.90 | 25.47 | 14.54 | 39.60 | 58.55 | 3.41 | 8.61 | 29.70 | 24.33 | 15.63 | 36.13 | 56.88 | 14604613750.00 |
| 3873B | Male | 31 | 2.3550683 | 3.68 | 9.75 | 26.90 | 29.38 | 11.81 | 32.24 | 59.22 | 3.03 | 11.37 | 26.80 | 33.95 | 11.65 | 31.44 | 58.50 | 15789433750.00 |
| 3870B | Female | 27 | 3.1983615 | 3.79 | 22.09 | 30.83 | 22.11 | 12.74 | 37.85 | 63.00 | 3.02 | 5.11 | 19.76 | 25.57 | 12.45 | 35.43 | 60.24 | 13542672500.00 |
| 3871B | Female | 27 | 6.4404076 | 3.03 | 10.86 | 28.38 | 25.28 | 11.89 | 37.26 | 59.88 | 3.70 | 10.23 | 28.64 | 29.62 | 12.06 | 36.83 | 59.82 | 13584631250.00 |
| 3828B | Male | 27 | 3.9945674 | 4.03 | 10.23 | 29.45 | 26.04 | 12.77 | 36.21 | 60.44 | 3.10 | 11.16 | 30.38 | 27.38 | 12.34 | 36.34 | 60.77 | 15080648750.00 |
| 3829B | Male | 23 | 2.0718559 | 3.67 | 9.84 | 25.32 | 25.35 | 12.59 | 35.23 | 57.62 | 3.91 | 12.18 | 23.43 | 27.15 | 11.88 | 32.80 | 54.00 | 14610938750.00 |
| 3831B | Male | 30 | 2.1060107 | 4.41 | 11.29 | 26.10 | 24.81 | 11.45 | 32.89 | 59.52 | 4.71 | 12.12 | 25.50 | 22.96 | 11.63 | 33.98 | 57.85 | 16935296250.00 |
| 3833B | Female | 21 | 11.315129 | 3.67 | 10.88 | 29.10 | 29.13 | 13.34 | 35.35 | 60.67 | 3.51 | 10.42 | 28.72 | 28.54 | 13.72 | 33.53 | 59.22 | 12604265000.00 |
| 3834B | Female | 27 | 6.7714438 | 3.64 | 11.03 | 30.34 | 24.79 | 12.06 | 34.59 | 59.26 | 2.27 | 10.13 | 32.31 | 21.70 | 11.95 | 32.80 | 58.99 | 15564496250.00 |
| 3835B | Female | 22 | 1.1599952 | 4.32 | 10.38 | 24.23 | 30.95 | 12.49 | 34.21 | 57.99 | 3.31 | 9.60 | 23.93 | 33.44 | 11.20 | 32.21 | 57.07 | 13458380000.00 |
| 3837B | Female | 25 | 2.4280809 | 3.77 | 10.86 | 26.49 | 27.42 | 10.58 | 34.05 | 63.92 | 3.82 | 11.28 | 24.84 | 22.47 | 11.77 | 33.54 | 61.50 | 13737223750.00 |
| 3836B | Female | 21 | 3.1161046 | 3.83 | 8.64 | 27.53 | 23.23 | 11.51 | 33.64 | 51.10 | 2.30 | 8.31 | 25.76 | 27.89 | 11.21 | 32.29 | 50.32 | 12505853750.00 |
| 3840B | Female | 19 | 8.9910398 | 4.57 | 7.87 | 22.61 | 20.04 | 12.02 | 37.08 | 59.25 | 3.87 | 10.21 | 27.58 | 22.59 | 10.56 | 33.93 | 57.13 | 14866405000.00 |
| 3839B | Female | 21 | 1.1796171 | 2.32 | 6.23 | 26.60 | 24.72 | 11.40 | 34.56 | 53.76 | 2.04 | 8.85 | 27.87 | 24.93 | 11.46 | 32.96 | 51.14 | 14583806250.00 |
| 3841B | Male | 33 | 0.63675 | 3.48 | 10.66 | 23.24 | 24.43 | 11.62 | 31.85 | 58.48 | 3.84 | 10.07 | 25.60 | 24.94 | 11.19 | 32.13 | 57.03 | 15079120000.00 |
| 3842B | Male | 23 | 7.1519861 | 3.34 | 9.28 | 25.79 | 21.63 | 10.10 | 30.47 | 53.41 | 2.57 | 10.07 | 25.48 | 24.82 | 10.84 | 29.83 | 53.82 | 14932745000.00 |
| 3843B | Male | 33 | 2.2769211 | 3.58 | 8.34 | 23.66 | 21.54 | 11.12 | 32.06 | 50.10 | 3.10 | 9.43 | 22.43 | 24.06 | 9.64 | 29.16 | 50.80 | 17551010000.00 |
| 3845B | Male | 35 | -1.1325613 | 3.63 | 10.36 | 25.11 | 37.23 | 13.25 | 34.46 | 61.28 | 2.19 | 13.66 | 27.16 | 25.73 | 12.14 | 32.62 | 63.95 | 14832903750.00 |
| 3846B | Female | 46 | 5.7294717 | 3.66 | 8.58 | 28.95 | 29.33 | 14.24 | 35.81 | 61.17 | 3.28 | 7.35 | 30.22 | 30.97 | 12.13 | 37.45 | 60.35 | 12115936250.00 |
| 3847B | Male | 31 | 4.3944217 | 4.14 | 12.68 | 24.21 | 27.36 | 12.24 | 31.27 | 59.85 | 2.88 | 12.09 | 25.08 | 27.66 | 11.79 | 30.79 | 61.05 | 15310558750.00 |
| 3848B | Male | 32 | 2.7385143 | 4.55 | 10.85 | 25.78 | 25.69 | 14.21 | 33.60 | 58.08 | 3.05 | 11.38 | 24.88 | 25.26 | 14.14 | 32.88 | 56.30 | 14396296250.00 |
| 3849B | Male | 33 | 3.4695821 | 2.93 | 10.70 | 25.10 | 26.82 | 11.21 | 34.26 | 53.67 | 3.24 | 10.50 | 23.82 | 25.85 | 11.71 | 33.93 | 51.60 | 17413248750.00 |
| 3850B | Male | 26 | 4.7312617 | 4.21 | 9.50 | 27.59 | 25.20 | 11.49 | 35.52 | 54.71 | 3.53 | 10.36 | 28.75 | 27.36 | 11.07 | 30.99 | 52.61 | 15407275000.00 |
| 3851B | Male | 36 | 4.3690749 | 3.37 | 9.83 | 24.63 | 24.18 | 12.30 | 30.99 | 52.47 | 2.72 | 10.74 | 22.36 | 24.58 | 11.38 | 29.15 | 50.87 | 15662422500.00 |
| 3852B | Female | 31 | 3.0925725 | 3.64 | 11.65 | 25.66 | 27.76 | 12.49 | 33.10 | 59.94 | 3.22 | 10.10 | 25.47 | 23.39 | 11.98 | 32.55 | 55.94 | 13386095000.00 |
| 3853B | Male | 40 | -1.3324693 | 2.35 | 10.85 | 21.34 | 25.02 | 10.98 | 28.31 | 52.66 | 1.19 | 17.11 | 21.93 | 24.15 | 12.04 | 29.00 | 50.61 | 17351530000.00 |
| 3854B | Female | 44 | 6.6062257 | 3.25 | 14.03 | 27.01 | 24.77 | 12.14 | 32.89 | 59.65 | 2.68 | 11.64 | 26.72 | 28.56 | 12.36 | 31.66 | 57.75 | 13675930000.00 |
| 3855B | Female | 36 | 15.115394 | 4.56 | 11.46 | 26.75 | 29.25 | 11.70 | 34.42 | 61.56 | 3.09 | 10.92 | 28.40 | 27.49 | 12.24 | 35.05 | 59.35 | 12752011250.00 |
| 3857B | Male | 31 | 12.376858 | 3.89 | 11.06 | 29.43 | 26.55 | 13.49 | 37.04 | 61.58 | 2.98 | 11.77 | 30.36 | 27.80 | 13.68 | 36.65 | 59.57 | 14118657500.00 |
| 3859B | Female | 35 | 2.0805384 | 3.42 | 9.74 | 29.31 | 31.18 | 11.95 | 35.15 | 63.86 | 3.10 | 10.24 | 32.80 | 29.46 | 13.00 | 38.38 | 59.45 | 13679446250.00 |
| 3858B | Female | 34 | 7.2552043 | 4.40 | 13.19 | 28.65 | 28.94 | 13.48 | 33.70 | 59.50 | 3.49 | 12.23 | 27.03 | 31.19 | 12.44 | 35.18 | 59.76 | 13908770000.00 |
| 3860B | Female | 31 | -1.215375 | 3.24 | 10.84 | 25.45 | 21.90 | 12.21 | 31.47 | 53.75 | 2.60 | 12.19 | 25.47 | 22.90 | 10.87 | 31.57 | 50.17 | 13373573750.00 |
| 3861B | Male | 24 | 3.3600197 | 2.94 | 9.76 | 27.30 | 26.09 | 11.58 | 34.39 | 56.09 | 3.30 | 11.66 | 26.88 | 23.71 | 11.41 | 31.21 | 55.09 | 15362238750.00 |
| 3862B | Female | 27 | 5.7296851 | 4.08 | 10.99 | 27.64 | 27.12 | 12.31 | 33.32 | 59.12 | 2.68 | 16.15 | 29.66 | 25.35 | 12.37 | 32.09 | 57.51 | 15371506250.00 |
| 3863B | Female | 25 | 5.595505 | 2.84 | 10.32 | 27.18 | 27.23 | 12.16 | 32.96 | 59.26 | 3.50 | 10.74 | 29.61 | 25.67 | 11.47 | 34.29 | 58.13 | 14483695000.00 |
| 3866B | Male | 42 | 15.308235 | 4.06 | 10.83 | 25.80 | 26.84 | 12.10 | 37.95 | 60.72 | 2.90 | 12.33 | 24.90 | 27.61 | 12.34 | 36.93 | 59.93 | 15069595000.00 |
| 3874B | Female | 28 | 7.3739955 | 3.57 | 9.88 | 31.12 | 26.22 | 12.24 | 36.80 | 58.37 | 2.73 | 13.56 | 31.14 | 27.20 | 12.55 | 35.98 | 55.42 | 13406511250.00 |
| 3875B | Female | 32 | 3.7089151 | 3.13 | 11.87 | 23.71 | 25.08 | 10.43 | 31.80 | 55.99 | 3.78 | 13.14 | 23.05 | 20.99 | 12.41 | 33.42 | 55.48 | 14244477500.00 |
| 3876B | Male | 30 | 1.8002433 | 4.46 | 10.66 | 24.99 | 23.29 | 12.47 | 31.31 | 58.14 | 3.85 | 11.52 | 25.05 | 24.76 | 12.28 | 33.55 | 55.43 | 18351481250.00 |
| 3877B | Female | 33 | 14.32236 | 3.71 | 9.41 | 27.27 | 29.96 | 11.55 | 34.86 | 59.51 | 2.84 | 10.27 | 26.84 | 30.53 | 11.60 | 35.65 | 58.47 | 12939828750.00 |
| 3878B | Male | 27 | 7.9136135 | 5.42 | 11.36 | 28.90 | 25.39 | 13.52 | 35.15 | 60.09 | 4.22 | 9.95 | 29.89 | 30.06 | 12.48 | 34.51 | 59.84 | 16116506250.00 |
| 3880B | Female | 45 | 3.8014277 | 2.95 | 11.10 | 24.49 | 25.64 | 12.04 | 31.26 | 56.54 | 3.13 | 9.07 | 25.80 | 24.12 | 11.71 | 32.43 | 52.70 | 14261973750.00 |
| 3884B | Female | 36 | 4.8462133 | 4.92 | 12.03 | 30.34 | 27.89 | 12.77 | 32.52 | 59.28 | 3.19 | 12.99 | 29.81 | 30.59 | 12.51 | 31.73 | 59.45 | 13119180000.00 |
| 3891B | Male | 25 | 6.7610098 | 4.59 | 10.38 | 32.48 | 27.51 | 12.81 | 37.23 | 60.10 | 4.44 | 11.87 | 33.20 | 28.20 | 13.77 | 36.04 | 60.35 | 13540926250.00 |
| 3892B | Male | 35 | 5.2328812 | 2.96 | 11.10 | 21.24 | 24.34 | 11.51 | 30.05 | 50.09 | 2.76 | 10.64 | 22.86 | 25.62 | 11.05 | 29.22 | 50.43 | 18077958750.00 |
| 3894B | Female | 20 | 4.7475064 | 3.24 | 9.59 | 29.43 | 29.79 | 14.01 | 38.71 | 61.58 | 2.39 | 9.88 | 30.13 | 27.29 | 12.68 | 35.64 | 60.58 | 12768852500.00 |
| 3895B | Female | 50 | 7.9543499 | 2.70 | 8.68 | 25.57 | 28.93 | 12.27 | 29.71 | 60.07 | 1.58 | 9.07 | 26.48 | 27.74 | 11.92 | 30.20 | 59.33 | 13917252500.00 |
| 3896B | Female | 35 | 13.243137 | 3.69 | 10.65 | 26.01 | 26.71 | 10.70 | 33.25 | 56.64 | 2.00 | 8.06 | 24.87 | 24.43 | 11.84 | 31.38 | 52.34 | 16415495000.00 |
| 3899B | Female | 27 | 4.9508122 | 2.39 | 8.65 | 23.82 | 28.54 | 12.37 | 32.96 | 57.88 | 3.81 | 9.25 | 24.06 | 28.50 | 12.01 | 32.70 | 54.99 | 13839688750.00 |
| 3900B | Male | 24 | 7.0045493 | 4.81 | 11.74 | 28.82 | 25.71 | 13.26 | 38.95 | 66.36 | 3.86 | 14.10 | 30.15 | 27.16 | 12.79 | 39.27 | 65.94 | 15726615000.00 |
| 3902B | Female | 24 | 4.5511747 | 3.05 | 10.75 | 27.16 | 24.88 | 11.89 | 33.08 | 61.96 | 2.82 | 11.01 | 28.12 | 26.07 | 11.33 | 33.11 | 59.24 | 12885566250.00 |
| 3901B | Female | 36 | 2.7792006 | 4.74 | 10.07 | 26.93 | 24.68 | 11.14 | 35.85 | 56.90 | 3.27 | 11.11 | 28.36 | 22.14 | 12.15 | 34.66 | 52.91 | 14486713750.00 |
| 3914B | Male | 34 | 9.0152705 | 2.80 | 9.48 | 25.66 | 28.11 | 8.79 | 31.35 | 55.52 | 1.91 | 11.30 | 25.76 | 29.19 | 10.78 | 32.08 | 54.11 | 15110647500.00 |
| 3915B | Female | 38 | 12.51729 | 4.08 | 9.95 | 27.42 | 25.39 | 12.81 | 33.88 | 58.15 | 2.92 | 10.13 | 26.72 | 25.89 | 12.22 | 31.60 | 58.08 | 15168686250.00 |
| 3916B | Female | 51 | 4.0511803 | 3.93 | 9.17 | 25.83 | 24.99 | 11.92 | 34.15 | 57.75 | 2.42 | 10.24 | 25.34 | 23.16 | 11.40 | 32.25 | 55.56 | 13311912500.00 |
| 3917B | Female | 25 | 2.9404485 | 4.61 | 8.48 | 25.93 | 22.90 | 12.04 | 35.87 | 59.81 | 3.16 | 11.51 | 28.18 | 23.41 | 12.05 | 34.91 | 57.70 | 13888066250.00 |
| 3918B | Female | 50 | 5.4658845 | 3.63 | 12.29 | 25.43 | 25.06 | 12.19 | 30.95 | 51.99 | 2.59 | 12.43 | 25.97 | 24.88 | 11.49 | 28.35 | 52.11 | 14165052500.00 |
| 3923B | Male | 44 | 10.660846 | 3.46 | 12.48 | 27.10 | 30.76 | 12.63 | 34.47 | 60.57 | 3.38 | 13.15 | 26.10 | 24.29 | 12.34 | 33.57 | 60.23 | 15794281250.00 |
| 3924B | Female | 21 | 6.104092 | 3.85 | 10.96 | 27.89 | 28.29 | 11.62 | 36.86 | 57.56 | 3.57 | 9.42 | 29.58 | 28.41 | 12.11 | 33.81 | 58.98 | 14189542500.00 |
| 3925B | Female | 20 | 9.7815679 | 3.47 | 8.31 | 27.59 | 22.00 | 11.37 | 33.96 | 54.41 | 2.00 | 7.51 | 28.35 | 22.92 | 11.10 | 32.25 | 53.45 | 13529991250.00 |
| 3926B | Female | 47 | -1.912905 | 3.26 | 10.39 | 22.88 | 27.10 | 12.27 | 34.61 | 50.60 | 3.29 | 12.52 | 22.63 | 27.02 | 11.69 | 32.56 | 48.69 | 14571451250.00 |
| 3928B | Female | 28 | 3.5419857 | 3.25 | 12.02 | 23.56 | 26.87 | 12.01 | 31.84 | 59.29 | 2.91 | 12.07 | 25.07 | 23.58 | 12.08 | 31.10 | 57.98 | 13354018750.00 |
| 3936B | Male | 45 | 13.310601 | 3.44 | 11.67 | 27.27 | 29.10 | 11.27 | 32.92 | 58.53 | 3.49 | 11.07 | 28.25 | 30.28 | 12.28 | 31.87 | 57.67 | 15792062500.00 |
| 3942B | Female | 37 | 11.124654 | 4.13 | 10.24 | 27.85 | 29.39 | 11.96 | 37.43 | 57.09 | 4.13 | 8.54 | 28.77 | 28.34 | 13.07 | 39.12 | 55.20 | 12858263750.00 |
| 3946B | Female | 50 | 3.5175616 | 2.38 | 11.34 | 23.70 | 25.31 | 12.65 | 29.34 | 53.18 | 2.20 | 12.16 | 23.35 | 29.17 | 13.09 | 31.66 | 54.97 | 12990341250.00 |
| 3947B | Female | 31 | 9.6221489 | 4.72 | 9.57 | 28.24 | 26.44 | 12.39 | 32.68 | 56.55 | 3.41 | 10.90 | 31.24 | 27.47 | 11.78 | 36.14 | 57.38 | 13567090000.00 |
| 3951B | Female | 30 | 5.5182585 | 4.74 | 10.46 | 30.78 | 26.65 | 13.02 | 32.28 | 60.42 | 4.97 | 11.97 | 30.62 | 25.97 | 11.85 | 34.33 | 60.02 | 13720502500.00 |
| 4419A | Female | 52 | 3.3741142 | 3.86 | 14.73 | 26.52 | 26.34 | 13.51 | 35.44 | 56.66 | 4.26 | 11.51 | 28.88 | 26.74 | 13.48 | 33.73 | 56.41 | 14386523750.00 |
| 3953B | Female | 23 | 6.4132301 | 5.20 | 10.11 | 27.05 | 26.66 | 11.26 | 32.48 | 58.79 | 3.69 | 8.27 | 28.43 | 30.81 | 10.87 | 31.97 | 57.28 | 15115963750.00 |
| 3956B | Female | 30 | 4.5022556 | 4.00 | 8.61 | 28.27 | 24.50 | 12.25 | 36.46 | 59.55 | 3.22 | 9.34 | 25.64 | 24.60 | 12.29 | 34.43 | 59.78 | 12122621250.00 |
| 3960B | Female | 43 | 6.0493674 | 4.47 | 7.83 | 28.97 | 28.95 | 11.66 | 34.65 | 63.56 | 3.52 | 8.08 | 30.58 | 30.69 | 12.50 | 34.37 | 60.35 | 13500315000.00 |
| 3962B | Male | 25 | 8.8020196 | 3.62 | 11.83 | 27.95 | 29.04 | 12.28 | 34.67 | 60.82 | 4.05 | 9.53 | 29.03 | 26.27 | 12.75 | 35.04 | 60.87 | 12484698750.00 |
| 3963B | Female | 36 | 5.7609734 | 4.31 | 10.88 | 28.48 | 28.80 | 13.26 | 36.53 | 61.43 | 3.42 | 11.39 | 27.10 | 26.53 | 12.57 | 36.18 | 59.62 | 13710371250.00 |
| 3965B | Male | 24 | 9.3513054 | 2.64 | 12.21 | 25.19 | 23.42 | 11.93 | 32.83 | 54.81 | 2.73 | 10.64 | 25.51 | 31.18 | 11.36 | 34.69 | 56.61 | 14606523750.00 |
| 3970B | Female | 32 | 7.0348395 | 5.04 | 8.65 | 30.54 | 29.65 | 12.25 | 36.34 | 64.24 | 4.58 | 9.70 | 30.47 | 29.77 | 11.50 | 35.09 | 61.90 | 13565320000.00 |
| 3166B | Female | 46 | 1.9809168 | 3.57 | 11.57 | 23.93 | 20.75 | 12.78 | 32.22 | 54.82 | 1.91 | 11.47 | 24.57 | 25.53 | 12.69 | 30.36 | 54.46 | 17036918750.00 |
| 3979B | Female | 37 | 0.5198432 | 4.59 | 14.37 | 25.50 | 28.96 | 12.53 | 34.90 | 60.20 | 3.91 | 11.14 | 26.64 | 28.26 | 12.47 | 33.96 | 57.06 | 13227640000.00 |
| 3982B | Female | 38 | 11.945215 | 3.62 | 11.48 | 27.51 | 27.97 | 11.52 | 32.68 | 59.63 | 3.17 | 12.07 | 29.57 | 27.61 | 11.80 | 31.92 | 57.51 | 13070257500.00 |

**5. Czech version of the Language Social Background Questionnaire**

Table

Description automatically generated

Table

Description automatically generated with medium confidence

Table

Description automatically generated

Table

Description automatically generated

A screenshot of a computer

Description automatically generated with low confidence

Table

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