This file contains the data and scripts used in the study. These are R scripts and are meant to be opened in R. It is expected that you set your working directory and download some libraries. In Table S1, age is expressed in days after conception. Please see the accompanying paper for more information, which details how these measurements were collected.

**Table captions**

**Table S1.** Timing of developmental transformations in humans and chimpanzees.

**Table S2.** Corpus callosum measurements used to compare growth patterns between humans and chimpanzees.

**Table S3.** Prefrontal cortex white matter volume measurements in humans and chimpanzees.

**Table S4.** Relative expression of *NEFH* expression over the course of development in the human frontal cortex.

**Table S5.** Normalized gene expression in humans and chimpanzees.

**Table S6.** Diffusion MR metrics used to find corresponding time points

**Electronic supplementary script**

**ESM\_figure\_1.R:** R script used to generate figure 1

**ESM\_figure\_2\_1.R:** R script to generate figure 2

**ESM\_figure\_S1.R:** R script to generate figure S1

**ESM\_figure\_S2.R:** R script to generate figure S2

**ESM\_figure\_S5.R:** R script to generate figure S5