Supplemental Information

This supplemental information contains technical information about the analyses presented in the main paper.

Participant MRI

Approximately half of the participants had a structural MRI. The MRI data were collected on a Siemens Medical Systems 3T Trio with an overall duration of about 15 min. A 3D T1-weighted "MPRAGE" RF-spoiled rapid flash scan in the sagittal plane and a T2/PD-weighted multi-slice axial 2D dual Fast Turbo spin-echo scan in the axial plane were used. The scans had 1 mm³ resolution and sufficient FoV to cover from the top of the head down to the neck. External head measurements were done on each participant who had a MRI. The measures include semi-circumferences (front and rear sides-circumference from LMA to RMA, top circumferences from Nz to Iz, and from LMA to RMA) and lateral diameters (Nz to Iz, LMA to RMA).

Close Size Head MRI

About half of the infants did not have a structural MRI. For these participants, external head measurements were made during the experimental testing session (see last section). For each participant in the study without a MRI, we calculated the RMS-difference between the six measurements for the participant and any infant within 30 days of the same age with a MRI in the Neurodevelopmental MRI database (Richards, Sanchez, Phillips-Meek, & Xie, 2015; Richards & Xie, 2015). The infant from the database with the closest head measurements was chosen to represent the head model for the participant in the ERP study. In a previous study we found that this "closest MRI" is a good representation of the CDR distribution for an infants "self MRI" (McCleery & Richards, 2012a, b). The close MRI and the infant's own MRI fit equally well or better than the age-appropriate average MRI used by other infant research (Hämäläinen,

Ortiz-Mantilla, & Benasich, 2011; Ortiz-Mantilla, Hämäläinen, & Benasich, 2012; Reynolds & Richards, 2009). We have also tested the fit of a "close MRI" CDR distribution to the "self MRI" in a study in preparation and confirm the use of the close MRI for the CDR analysis.

Electrode Locations on MRI

The MRIcron program (Rorden, <u>http://www.mccauslandcenter.sc.edu/mricro/mricron/</u>) was used to display MRIs and do editing work. A set of fiducials were located on each MRI, including the anterior commissure, posterior commissure and a set of external head locations used for the 10-10 system (e.g., Nz, Iz, LMA, RMA, LPA, RPA, Vz). Details of these procedures are presented in Richards, Boswell, Stevens, & Vendemia, 2015b.

Adult average electrode placement locations were constructed on the young adult (20-24 years) average MRI template from the Neurodevelopmental MRI database (Richards et al., 2015a; Richards & Xie, 2015). The average electrodes were constructed from individual participants who had the positions of the EGI GSN 128 channel electrode net, and HGSN 128 channel electrode net, determined on the head. The electrode positions on the individuals were transformed to the average MRI template and averaged, and fitted to the average MRI template (Richards et al., 2015b).

Age-appropriate average electrode positions were created for average MRI templates of infant templates (3, 4.5, 6, 7.5, 9, and 12 months) from our MRI database (Richards & Xie, 2015). The individual MRIs for each infant making up the age-appropriate average MRI from the Neurodevelopmental MRI database (Richards & Xie, 2015) were used to construct average electrodes for the average template. First, the "virtual 10-10" (Richards et al., 2015) were constructed for each individual MRI. Second, these electrode points on the individual heads were registered to the virtual 10-10 electrodes from the adult electrode configuration (Richards et al., 2015) were electrodes for the average template.

al., 2015) using "coherent point drift" registration (CPD version 2; Myronenoko et al, 2006; Myronenko & Song, 2010). The resulting 12-degree of freedom affine registration matrix was used to transform the adult average GSN/HGSN electrode configuration into the participant space. This transformed electrode configuration was then fitted to the scalp by finding the nearest location to the scalp from the electrode. The resulting electrode locations were referenced to the AC-coordinate system for that participant. Figure 1 shows an infant participant with the electrodes placed on the MRI. Third, the individual participants virtual 10-10 points were registered to 10-10 points of the age-appropriate average template for that individual, and the individual GSN/HGSN locations were transformed into the age-appropriate average template positions. Finally, these transformed positions were used to construct an average template for that age-appropriate average template. Figure 1 also shows the average electrode positions on the average MRI templates for 6.0 months.

A separate step was used to construct the electrode placement map on individuals used in the source analysis. During the course of an EEG/ERP experiment, individual infants had photos taken of the net placements on the front, rear, right, left, and above the head. The photos were used to visually identify the position of electrodes on the participant MRI volume on the front, rear, left and right of the head (e.g., GSN #'s 17, 73, 57, 101, respectively) and the electrode in the Cz location (e.g., average of GSN electrodes 7, 31, 55, 80, 106). These electrodes were visually located on the scalp of the participant's MRI volume and translated into the AC-PC space of that individual. The electrode placement map was constructed for the individual MRI by registering the electrode positions on the individual MRI (from photo) to the same electrode positions on the average electrode map for the age-appropriate MRI average, and the average

electrodes were transformed into the AC-coordinate system for that participant and fitted to the MRI head (Richards et al., 2015b).

Supplemental Information in Richards (2013)

We rely on methods presented in Richards (2013), both the main text and the supplemental information for that study. The following sections include details found either in the Supplemental Information or the main paper for that study.

Virtual 10-20 Electrodes

The GSN 128 and Hydrocel GSN 128 Sensornet channel electrodes were combined into groups of electrodes representing "virtual 10-20" electrodes. We used the same procedure and rationale for transforming groups of EGI electrodes into their 10-10 equivalents. Figure 2 shows the connections between the virtual electrode positions of the Hydrocel GSN128 electrode net overlaid on the 6-month-old average MRI template (colors), and the 10-10 virtual electrode positions for this MRI template. The virtual electrode combinations were chosen to overlay the associated 10-10 positions. The GSN and HGSN electrode nets have different numbering systems, so we used different numbers for each net type for the translation to virtual 10-10 electrodes. The channel numbers and positions are given in Table 1..

Head Segmentation

The materials in the head were segmented, including scalp, skull, CSF, white matter, gray matter, nasal cavity, and eyes (Richards, 2002, 2005, 2013). The segmentation was mapped into three-dimensional "Finite Element Method" (FEM) wireframes and the conductivity values were assigned to each tetrahedral element proportional to the amount of segmented material in the tetrahedron. Details of this procedure are given in Richards (2013, Supplemental Information). Figure 3 shows a wireframe placed on the MRI of an individual 6-month-old participant.

The gray matter segmentation was used to construct the locations of sources for the current density reconstruction. A three-dimensional wireframe was used that identified individual tetrahedral volumes for the current sources. This was done separately on each MRI. Figure 3 shows a source wireframe placed on the MRI of an individual 6-month-old participant. **Atlases**

Three atlases were constructed on the individual participants MRIs. The LONI Probabilistic Brain Atlas (LPBA; Shattuck, et al., 2008) and the Hammers atlas, based on MRIs from the Information Exchange for the Internet (Hammers atlas; Heckemann, Hajnal, Aljabar, Rueckert, & Hammers, 2006; Heckemann, et al., 2003) were constructed on individual participants. Details of the construction of these atlases for individual participants may be found in Phillps et al. (2012) and Fillmore et al. (submitted); and we have used these atlases in previous work to define ROIs for cortical source analysis (Richards, 2013; also see Supplemental Information for Richards, 2013). The LPBA atlas has 56 areas defined for the cortex, subcortex, brainstem, and cerebellum. The Hammers atlas has 83 areas defined from the cortex, sub-cortex, brainstem, and cerebellum. The third atlas was an automatically constructed lobar atlas that defined the major lobes (e.g., frontal, temporal) of the cortex, some sub-lobar cortical areas (e.g., fusiform gyrus), subcortical (e.g., striatum, thalamus), cerebellum and brainstem. This atlas was constructed from a manually-labeled age-appropriate lobar atlas transformed into the participant's MRI space, the adult MRI average template lobar atlas transformed into the participant space, and the relevant segments from the LPBA and Hammers atlas. These atlases were combined with a majority vote procedure to define a lobar atlas for each individual MRI.

The atlases were used to define several anatomical areas by identifying common designations from each of the atlases, and ROIs were mapped for each participant MRI. These

ROIs are listed in the main paper, and show in Figure 2 of the main paper. They were chosen based on theoretical grounds or previous research examining face-sensitive brain areas in adult participants, or the Nc-source areas in infants (Reynolds & Richards, 2005; Reynolds et al., 2010). The primary ones of interest were the middle fusiform gyrus, anterior fusiform gyrus, superior temporal gyrus and superior temporal sulcus, lateral inferior occipital lobe, orbital-frontal gyrus, ventral anterior cingulate, dorsal anterior cingulate. Additionally, we used other ROIs that could account for ERP activity that might not be specifically related to face processing. These include the occipital lobe, parietal lobe, middle and inferior temporal gyrus, lingual gyrus, parahippocampal gyrus, frontal pole. Supplemental Information Table 2 has a list of the ROIs, and the labels for the anatomical areas taken from the lobar, Hammers, or LPBA40 atlas.

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Component	10-10 Virtual Electrode	HGSN Electrodes	GSN Electrodes
N290	Parietal Occipital7 (PO7)	59, 65, 66	59, 65, 66
	Parietal Occipital8 (PO8)	84, 90, 91	85, 91, 92
	Parietal Occipital9 (PO9)	64, 65, 68, 69	64, 65, 69, 70
	Parietal Occipital10 (PO10)	89, 90, 94, 95	90, 91, 95, 96
	Parietal7 (P7)	51, 58, 59	51, 58, 59
	Parietal8 (P8)	91, 96, 97	92, 97, 98
	Parietal9 (P9)	57, 58, 63, 64	57, 58, 63, 64
	Parietal10 (P10)	95, 96, 99, 100	96, 97, 100, 101
	Temporal Parietal7 (TP7)	46, 50, 51	47, 50, 51
	Temporal Parietal8 (TP8)	97, 101, 102	98, 102, 103
	Temporal Parietal9 (TP9)	50, 56, 57	50, 56, 57
	Temporal Parietal10 (TP10)	100, 101, 107	101, 102, 108
P400	OccipitalZ (Oz)	71, 75, 76	72, 76, 77
	Occipital1 (O1)	66, 70, 71	66, 71, 72
	Occipital2 (O2)	76, 83, 84	77, 84, 85
	InionZ (Iz)	74 75, 81, 82	75, 76, 82, 83
	Inion1 (I1)	69, 70, 73, 74	70, 71, 74, 75
	Inion2 (I2)	82, 83, 88, 89	83, 84, 89, 90
	Parietal Occipital7 (PO7)	59, 65, 66	59, 65, 66
	Parietal Occipital8 (PO8)	84, 90, 91	85, 91, 92
	Parietal Occipital9 (PO9)	64, 65, 68, 69	64, 65, 69, 70
	Parietal Occipital 10 (PO10)	89, 90, 94, 95	90, 91, 95, 96
Nc	FrontalZ (Fz)	5, 10, 11, 12, 16, 18	5, 10, 11, 12, 16, 19
	Frontal CentralZ (FCz)	5, 6, 7, 12, 106	5, 6, 7, 12, 107
	CentralZ (Cz)	7, 31, 55, 80, 106	7, 32, 55, 81 1037

Table 1, Virtual 10-10 electrode clusters. The GSN and HGSN nets have different numbering systems. The electrodes chosen surround the virtual 10-10 electrode on the average MRI template (Figure 2)

Table 2. Regions-of-interest (ROIs) and anatomical regions with labels from the lobar, Hammers, and LPBA40 atlases. The left column are lateralized, and are presented from posterior-anterior and lateral-medial. The right column are bilateral and presented from posterior.

Lateral inferior occipital lobe		Occipital lobe	
LPBA		Lobar	Occipital pole
65	L inferior occipital gyrus, lateral part	Hammers	
66	R inferior occipital gyrus, lateral part	66, 67	Cuneus (left, right)
		LPBA	
Inferior and middle temporal gyrus		67 68	L, R Cuneus
LPBA			
83	L middle temporal gyrus		Middle occipital lobe
84	R middle temporal gyrus	LPBA	
85	L inferior temporal gyrus	63, 64	L, R middle occipital gyrus
86 R inferior temporal gyrus			
		Superior occipital lobe	
	Medial inferior occipital lobe	LPBA	
LPBA		61 62	L, R superior occipital gyrus
65	L inferior occipital gyrus, medial part		
66	R inferior occipital gyrus, medial part		Superior parietal lobe
		Hammers	
	Middle fusiform gyrus	62, 63	Superior parietal gyrus left, right
Lobar	Fusiform gyrus, middle part	LBPA	
Hammers:		43, 44	L, R_superior_parietal_gyrus
15	Lateral occipitotemporal gyrus right, middle part		
16	Lateral occipitotemporal gyrus left, middle part		Posterior cingulate gyrus
LPBA		Hammers	
91	L fusiform gyrus, middle part	26, 27	Cingulate gyrus left, right, posterior part
92	R fusiform gyrus, middle part	LPBA	
		121, 122	L, R_cingulate_gyrus, posterior part
· · · ·	Anterior fusiform gyrus		Deveel enteries singulate group
Lobar	Fusiform gyrus, anterior part		Dorsal-anterior cingulate gyrus
Hammers:	Lateral essibilitatemperal gurus right enterior part	Hammers	Cinquisto gurus, antorior (supragonus), left
15	Lateral occipitotemporal gyrus right, anterior part	24, 25	Cingulate gyrus, anterior (supragenual), left, right, superior to anterior commissure
16	Lateral occipitotemporal gyrus left, anterior part	LPBA	
LPBA:		121, 122	L R cingulate_gyrus, anterior part, superior to AC
91	L fusiform gyrus, anterior part	121, 122	En emgulate_gyrus, anterior part, superior to Ae
92	R fusiform gyrus, anterior part	Ventral-anterior cingulate	
			Ventral-anterior cingulate
1		Hammers	Ventral-anterior cingulate
	Lingual gyrus	Hammers 76. 77	
Hammers	Lingual gyrus	76. 77	Subgenual anterior cingulate gyrus (right, left)
Hammers 64		76. 77 78, 79	Subgenual anterior cingulate gyrus (right, left) Subcallosal area (right, left)
64	Lingual gyrus left	76. 77	Subgenual anterior cingulate gyrus (right, left)
		76. 77 78, 79 80, 81	Subgenual anterior cingulate gyrus (right, left) Subcallosal area (right, left) Pre-subgenual anterior cingulate (right, left)
64	Lingual gyrus left	76. 77 78, 79 80, 81	Subgenual anterior cingulate gyrus (right, left) Subcallosal area (right, left) Pre-subgenual anterior cingulate (right, left) Cingulate gyrus, anterior (supragenual) (right,
64 65	Lingual gyrus left	76. 77 78, 79 80, 81 24, 25	Subgenual anterior cingulate gyrus (right, left) Subcallosal area (right, left) Pre-subgenual anterior cingulate (right, left) Cingulate gyrus, anterior (supragenual) (right,
64 65 LPBA	Lingual gyrus left Lingual gyrus right	76.77 78,79 80,81 24,25 LPBA	Subgenual anterior cingulate gyrus (right, left) Subcallosal area (right, left) Pre-subgenual anterior cingulate (right, left) Cingulate gyrus, anterior (supragenual) (right, left), inferior to anterior commissure
64 65 LPBA 89	Lingual gyrus left Lingual gyrus right L lingual gyrus	76.77 78,79 80,81 24,25 LPBA	Subgenual anterior cingulate gyrus (right, left) Subcallosal area (right, left) Pre-subgenual anterior cingulate (right, left) Cingulate gyrus, anterior (supragenual) (right, left), inferior to anterior commissure
64 65 LPBA 89	Lingual gyrus left Lingual gyrus right L lingual gyrus	76.77 78,79 80,81 24,25 LPBA	Subgenual anterior cingulate gyrus (right, left) Subcallosal area (right, left) Pre-subgenual anterior cingulate (right, left) Cingulate gyrus, anterior (supragenual) (right, left), inferior to anterior commissure L R cingulate_gyrus, anterior part, inferior to AC
64 65 LPBA 89	Lingual gyrus left Lingual gyrus right L lingual gyrus R lingual gyrus	76.77 78,79 80,81 24,25 LPBA 121,122	Subgenual anterior cingulate gyrus (right, left) Subcallosal area (right, left) Pre-subgenual anterior cingulate (right, left) Cingulate gyrus, anterior (supragenual) (right, left), inferior to anterior commissure L R cingulate_gyrus, anterior part, inferior to AC
64 65 LPBA 89 90	Lingual gyrus left Lingual gyrus right L lingual gyrus R lingual gyrus	76. 77 78, 79 80, 81 24, 25 LPBA 121, 122 Hammers	Subgenual anterior cingulate gyrus (right, left) Subcallosal area (right, left) Pre-subgenual anterior cingulate (right, left) Cingulate gyrus, anterior (supragenual) (right, left), inferior to anterior commissure L R cingulate_gyrus, anterior part, inferior to AC Orbito-frontal gyrus
64 65 LPBA 89 90 Hammers	Lingual gyrus left Lingual gyrus right L lingual gyrus R lingual gyrus Parahippocampal gyrus	76. 77 78, 79 80, 81 24, 25 LPBA 121, 122 Hammers 52, 53	Subgenual anterior cingulate gyrus (right, left) Subcallosal area (right, left) Pre-subgenual anterior cingulate (right, left) Cingulate gyrus, anterior (supragenual) (right, left), inferior to anterior commissure L R cingulate_gyrus, anterior part, inferior to AC Orbito-frontal gyrus ` straight gyrus (right and left),
64 65 LPBA 89 90 Hammers 9	Lingual gyrus left Lingual gyrus right L lingual gyrus R lingual gyrus Parahippocampal gyrus Parahippocampal and ambient gyri right	76. 77 78, 79 80, 81 24, 25 LPBA 121, 122 Hammers 52, 53 68, 69	Subgenual anterior cingulate gyrus (right, left) Subcallosal area (right, left) Pre-subgenual anterior cingulate (right, left) Cingulate gyrus, anterior (supragenual) (right, left), inferior to anterior commissure L R cingulate_gyrus, anterior part, inferior to AC Orbito-frontal gyrus ` straight gyrus (right and left),
64 65 LPBA 89 90 Hammers 9 10	Lingual gyrus left Lingual gyrus right L lingual gyrus R lingual gyrus Parahippocampal gyrus Parahippocampal and ambient gyri right	76. 77 78, 79 80, 81 24, 25 LPBA 121, 122 Hammers 52, 53 68, 69 LPBA	Subgenual anterior cingulate gyrus (right, left) Subcallosal area (right, left) Pre-subgenual anterior cingulate (right, left) Cingulate gyrus, anterior (supragenual) (right, left), inferior to anterior commissure L R cingulate_gyrus, anterior part, inferior to AC Orbito-frontal gyrus ` straight gyrus (right and left), , medial orbital gyrus (right and left),

Superior temporal gyrus		Frontal pole	
LPBA		Lobar	Frontal pole
81	L superior temporal gyrus		
82	R superior temporal gyrus		
Temporal pole			
Hammers			
5	Anterior temporal lobe, medial part right		
6	Anterior temporal lobe, medial part left		
7	Anterior temporal lobe, lateral part right		
8	Anterior temporal lobe, lateral part left		
82	Superior temporal gyrus, anterior part left		
83	Superior temporal gyrus, anterior part left		
Superior temporal sulcus			
LBPA			
81 & 83	Intersection (2 mm ea) of L superior temporal gyrus and L middle temporal gyrus		
82 & 84	Intersection (2 mm ea) of R superior temporal gyrus and R middle temporal gyrus		

Figure 1. Electrode placement for a six-month old infant, and the 6-month-old average MRI template



Figure 2. Hydrocel GSN128 electrode connections for inferior-posterior virtual electrodes, and actual 10-10 locations. This is plotted on the age-appropriate 6-0 months average MRI template



Figure 3. FEM model and source volume in an individual infant MRI

