## Motor Milestone Analysis

We examine whether the SAYcam participants' age at which they started walking significantly influenced the proportion of hands or faces that they saw, using mixed-effects regressions with per-child random intercepts. We tried including random slopes by age and milestone, but the models did not converge and/or were singular. The R syntax for the linear regression was thus:  $prop_faces \sim age * walk + (1 | child_id)$ . We also tested inclusion of a quadratic term for age  $prop_faces \sim poly(age,2) * walk + (1 | child_id)$ . Children's age of achieving the milestone was dummy-coded (i.e.,  $prop_faces \sim poly(age,2) * walk + (1 | child_id)$ ).

The quadratic term was justified for both the hands model ( $\chi^2(2) = 22.15$ , p < .001) and the faces model ( $\chi^2(2) = 10.21$ , p < .01). As children became able to walk, they saw significantly more faces ( $\beta = 0.26$ , p = 0.02) and hands ( $\beta = 0.32$ , p = 0.01). The linear and quadratic age terms and their interactions with walking were also significant (see Table 1). The models' predicted conditional effects are shown in Figure 1.

Table 1: Change in face and hand prevalence by ability to walk

	$Dependent\ variable:$	
	Proportion of Faces (1)	Proportion of Hands (2)
poly(age, 2)1	-4.831**	-5.655***
	(1.928)	(2.080)
poly(age, 2)2	-1.986**	-2.462***
	(0.845)	(0.913)
walk	0.259**	0.315***
	(0.109)	(0.118)
poly(age, 2)1:walk	4.506**	5.532***
	(1.934)	(2.088)
poly(age, 2)2:walk	1.723**	1.986**
	(0.854)	(0.923)
Constant	-0.070	-0.080
	(0.109)	(0.118)
Observations	235	235
Log Likelihood	293.848	276.626
Akaike Inf. Crit.	-571.697	-537.253
Bayesian Inf. Crit.	-544.020	-509.576

Note:

\*p<0.1; \*\*p<0.05; \*\*\*p<0.01

