**Supplemental Materials**

**S1. Child’s positive emotion expressions predicting emotion-related behavior**

The models were specified by the following equations:

Level 1:

$$log\_{e}\left(\frac{p(y\_{it})}{1-p(y\_{it})}\right)= β\_{0i}+β\_{1i}\left(State PE\right)\_{i\left(t-1\right)}$$

Level 2:

$$β\_{0i}=γ\_{00}+γ\_{01}(Mean PE)\_{i}+γ\_{02}(Culture)\_{i}+ γ\_{03}(Executive Function)\_{i}+γ\_{04}(Child Sex)\_{i} + u\_{0i}$$

$$β\_{1i}=γ\_{10}$$

where $y\_{it}$, is the observed gaze aversion, self-soothing, fidgeting, or non-emotional language at epoch *t* for person *i*, $β\_{0i}$ is a person-specific intercept, and $β\_{1i}$ is a person-specific lagged association between *State PEi* at epoch *t-1* and emotion-related behavior at epoch *t*. $γ\_{00}$ is the expected level of emotion-related behavior for a child who is MA and whose *Mean PEi* and executive function score (attention shifting or inhibitory control) was 0, $γ\_{01}$ is the between-person association between the *Mean PEi* and emotion-related behavior, $γ\_{02}$ is the between-person association between culture and emotion-related behavior, $γ\_{03}$ is the between-person association between executive function and emotion-related behavior, $γ\_{04}$ is the between-person association between child sex and emotion-related behavior, $γ\_{10}$ is the within-person lagged association between *State PEi* at epoch *t-1* and emotion-related behavior at epoch *t*, and $u\_{0}$ is the individual-level residual deviation.

**S2. Child’s negative emotion expressions predicting emotion-related behavior**

The models were specified by the following equations:

Level 1:

$$log\_{e}\left(\frac{p(y\_{it})}{1-p(y\_{it})}\right)= β\_{2i}+β\_{3i}(State NE)\_{i(t-1)}$$

Level 2:

$$β\_{2i}=γ\_{20}+γ\_{21}(Mean NE)\_{i}+γ\_{22}(Culture)\_{i}+ γ\_{23}(Executive Function)\_{i}+ γ\_{24}(Child Sex)\_{i}+u\_{2i}$$

$$β\_{3i}=γ\_{30}$$

where $y\_{it}$, is the observed gaze aversion, self-soothing, fidgeting, or non-emotional language at epoch *t* for person *i*, $β\_{2i}$ is a person-specific intercept, and $β\_{3i}$ is a person-specific lagged association between *State NEi* at epoch *t-1* and emotion-related behavior at epoch *t*. $γ\_{20}$ is the expected level of emotion-related behavior for a child who is MA and whose *Mean NEi* and executive function score (attention shifting or inhibitory control) was 0, $γ\_{21}$ is the between-person association between the *Mean NEi* and emotion-related behavior, $γ\_{22}$ is the between-person association between culture and emotion-related behavior, $γ\_{23}$ is the between-person association between executive function and emotion-related behavior, $γ\_{24}$ is the between-person association between child sex and emotion-related behavior, $γ\_{30}$ is the within-person lagged association between *State NEi* at epoch *t-1* and emotion-related behavior at epoch *t*, and $u\_{2}$ is the individual-level residual deviation.