### Accepted Manuscript

Face-trait inferences show robust child-adult agreement: Evidence from three types of faces on "mean" versus "nice" judgments

E.J. Cogsdill, M.R. Banaji

PII: S0022-1031(15)00058-X DOI: doi: 10.1016/j.jesp.2015.05.007

Reference: YJESP 3321

To appear in: Journal of Experimental Social Psychology

Received date: 13 November 2014 Revised date: 28 April 2015 Accepted date: 1 May 2015



Please cite this article as: Cogsdill, E.J. & Banaji, M.R., Face-trait inferences show robust child-adult agreement: Evidence from three types of faces on "mean" versus "nice" judgments, *Journal of Experimental Social Psychology* (2015), doi: 10.1016/j.jesp.2015.05.007

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#### **ACCEPTED MANUSCRIPT**

RUNNING HEAD: Generalization of Face-to-Trait Inferences

# Face-trait inferences show robust child-adult agreement: Evidence from three types of faces on "mean" versus "nice" judgments

Cogsdill, E. J., & Banaji, M. R.

## Harvard University

#### **Abstract**

Humans rapidly and automatically use facial appearance to attribute personality traits ("trustworthy," "competent"). To what extent is this face-to-trait attribution learned gradually across development versus early in childhood? Here, we demonstrate that child-adult concordance occurs even when faces should minimize agreement: natural (not computer-generated) adult faces; less developed children's faces; and perceptually unfamiliar monkey faces. In Study 1, 3- to 12-year-olds and adults selected "nice/mean" faces among pairs with a priori "nice-mean" ratings. Significant cross-age consensus emerged for all three face types. Study 2 replicated this result using an improved procedure in which 44–48 faces appeared in randomized pairs. This converging evidence supports the idea that complex forms of social cognition – allowing perceivers to believe they can derive personality from faces – emerge early in childhood, a finding that calls for new procedures to detect this central facet of cognition earlier in life.

Keywords: social cognition; social cognitive development; person judgment; first impressions; trait impressions; face processing

Please address correspondence to: Mahzarin R. Banaji 1520 William James Hall 33 Kirkland St. Cambridge, MA 02138 mahzarin\_banaji@harvard.edu (617) 384 9203

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