

# CHICAGO FACE DATABASE

Version 3.0 – March 2021

## OVERVIEW

Version 3.0 of the database includes high-resolution photographs of male and female individuals of varying ethnicity between the ages of 17-65. Extensive norming data are available for each model. These data include both physical attributes (e.g., face size) as well as subjective ratings by independent judges (e.g., attractiveness). Each model is represented with a neutral expression photo. For a subset of models, the database also includes photos with happy (open mouth), happy (closed mouth), angry, and fearful expressions.

For detailed information on the photo collection, development, and norming procedures please see:

Ma, Correll, & Wittenbrink (2015). The Chicago Face Database: A Free Stimulus Set of Faces and Norming Data. *Behavior Research Methods*, 47, 1122-1135

## IMAGE SETS

The database consists of a main image set and several extension sets. Images are standardized across both sets so that they can be used side-by-side.

### CFD

The main CFD set consists of images of 597 unique individuals. They include self-identified Asian, Black, Latino, and White female and male models, recruited in the United States. All models are represented with neutral facial expressions. A subset of the models is also available with varying facial expressions. Norming data are available for all neutral expression images. Subjective rating norms are based on a U.S. rater sample.

### CFD-MR

The CFD-MR extension set includes images of 88 unique individuals, who self-reported multiracial ancestry. All models were recruited in the United States. The images depict models with neutral facial expressions. Additional facial expression images are in production and will become available with a future update of the database. Norming data include the standard set of CFD objective and subjective image norms as well as the models' self-reported ancestry. Subjective norms are based on a U.S. rater sample.

### CFD-INDIA

The CFD-INDIA extension set includes images of 142 unique individuals, recruited in Delhi, India. The images depict models with neutral facial expressions. Additional facial expression images with happy (open mouth), happy (closed mouth), angry, and fearful expressions are in production and will become available with a future update of the database. Norming data consist of the standard set of CFD objective and subjective image norms, including ratings of perceived model ethnicity. Subjective norms are available for a U.S. rater sample and for a sample of raters recruited in India. In addition, an extended set of self-reported model background data (e.g., ancestry, caste, home state) is available upon request.

## TERMS OF USE

1. The database photographs and their accompanying information may be used free of charge for non-commercial research purposes only.
2. The database materials shall not be re-distributed or published without written consent from the copyright holder, the University of Chicago, Center for Decision Research.
3. No attempts may be made to identify or contact the individuals depicted in the database (including, but not limited to the use of CFD photographs in facial recognition software).
4. Use of the database materials must be acknowledged in all published work.

## ACKNOWLEDGEMENT

Use of the database materials should be acknowledged as follows:

### CFD

Ma, Correll, & Wittenbrink (2015). The Chicago Face Database: A Free Stimulus Set of Faces and Norming Data. *Behavior Research Methods*, 47, 1122-1135.

### CFD-MR

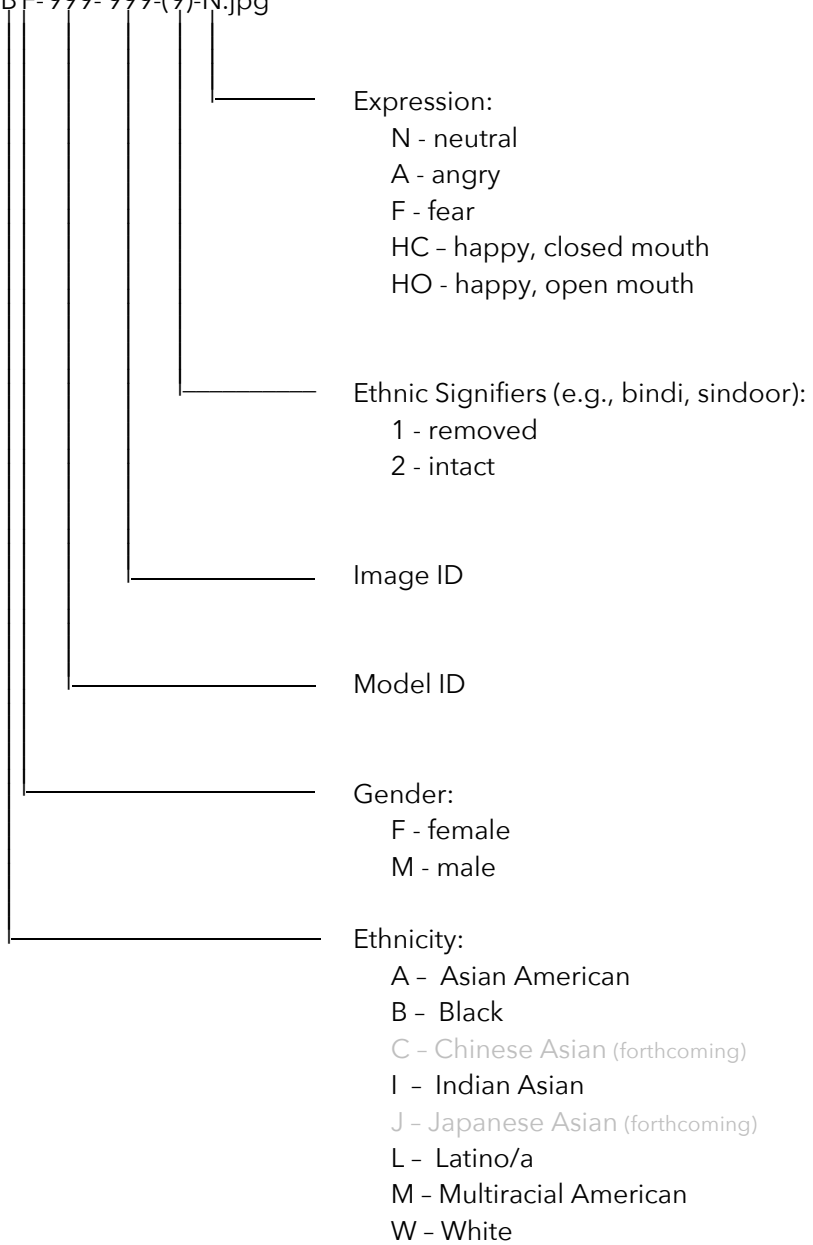
Ma, Kantner, & Wittenbrink (2020). Chicago Face Database: Multiracial Expansion. *Behavior Research Methods*. <https://doi.org/10.3758/s13428-020-01482-5>.

### CFD-INDIA

Lakshmi, Wittenbrink, Correll, & Ma (2021). The India Face Set: International and Cultural Boundaries Impact Face Impressions and Perceptions of Category Membership. *Frontiers in Psychology*, 12, 161. <https://doi.org/10.3389/fpsyg.2021.627678>.

## FILE NAMING

CFD-B F-999-999-(9)-N.jpg



## VERSION HISTORY

### **CFD 3.0 - March 2021**

#### **Release of the CFD-INDIA Expansion Set and maintenance update**

Publication of face images for 142 unique individuals, recruited in Delhi, India, with norming data.

Correction of errors in the Facial Width-to-Height Ratio measure. Specifically, this measure has been updated for all database images and is now based on the ratio of the bizygomatic face width measure and the distance between the upper lip and highest point of the eyelids. The resulting ratio is identified as fWHR2.

The fWHR1 measure used in prior versions of the database relied on a less common definition of the ratio (Hehman et. al. 2013). It remains available on the CFD website for the main CFD image set. However, use of the fWHR1 measure is discouraged as it contains unreliable height measurements.

### **CFD 2.5 - November 2020**

#### **Addition of the CFD-MR Expansion Set**

Publication of face images for 88 self-reported multiracial individuals, with norming data. Updated measurement guide.

### **CFD 2.0.3 - July 2016**

#### **Minor maintenance update**

Elimination of several duplicate image files from the distributed zip file.

### **CFD 2.0.2 - March 2016**

#### **Minor maintenance update**

Fixes a typo in the norming data for variable fWHR of target CFD-LM-200. In addition, the codebook now includes scale information for all subjective rating measures. All images included in version 2.0 remain unchanged.

### **CFD 2.0.1 - March 2016**

#### **Minor maintenance update**

This update provides a minor correction to the norming data. All images included in version 2.0 remain unchanged.

The AGE variable (rater estimates for target's approximate age in years) now excludes all rater responses over 70. Elimination of outliers for this variable changes the resulting average estimated age for 3 targets: CFD-AM-215; CFD-BF-041; CFD-BM-216.

### **CFD 2.0 - August 2015**

#### **Expansion of Image Set**

Addition of 439 new neutral expression photographs with norming data. The database now includes Asian, Black, Latino, and White male and female targets.

CFD 1.0 - September 2014

**Release of Version 1 of the Database**

Neutral expression normed photographs of 158 Black and White males and females. Plus photographs with varying facial expressions for a subset of the 158 models.