

# Loss of Face, Intergenerational Family Conflict, and Depression Among Asian American and European American College Students

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Asian-American college students have reported higher scores of depression than European-American college students. This study examined the mediating effects of loss of face and intergenerational family conflict between race/ethnicity and depression and hypothesized that these variables would explain previously observed depression differences. The sample consisted of 488 undergraduate students: 209 self-identified as Asian American and 279 as European American. Participants filled out paper-and-pencil questionnaires. As predicted, the study found that Asian Americans reported higher scores on depression, loss of face, and intergenerational family conflict than European Americans. Loss of face explained more variance in depression among Asian Americans than European Americans. However, intergenerational family conflict explained equal levels of variance in depression for both groups. A structural equation model revealed that the relationship between race/ethnicity and depression was fully mediated by loss of face and intergenerational family conflict. In conclusion, using the disentangling approach, differences in depression scores between Asian-American and European-American college students can be explained by differences in culturally relevant constructs, such as loss of face and intergenerational family conflict.

*Keywords:* depression, loss of face, family conflict, Asian American, European American

In the last 2 decades, researchers have suggested a departure from group comparisons based solely on race, ethnicity, nationality, and immigration status. They have recommended unpacking group differences by examining psychological factors that may underlie these cultural differences ([ongin depipB](#))

depressive symptoms among college students. However, little research has examined what cultural factors may contribute to observed racial differences in self-reported measures of depression (Okazaki, 1997). A handful of studies have attempted to explain these differences by examining depression in conjunction with social anxiety, self-construal, reporting method, and self-enhancement (Norasakkunkit & Kalick, 2002; Okazaki, 1997, 2000). For example, two early proposed explanations for the observed differences in depression between Asian-American and European students included the effects of social anxiety and self-construal (Okazaki, 1997) and the effects of measurement method (Okazaki, 2000). Race/ethnicity remained a significant predictor of depression differences in both studies when controlling for these effects.

Additional sociocultural variables that have been examined in relation to cross-cultural differences in depression and social anxiety among Asian Americans and European Americans include self-construal, sociotropy, acculturation, emotion suppression, and family cohesion (Lam, 2005; Mak, Law, & Teng, 2011; Okazaki, 1997, 2000; Park et al., 2011). However, no study to date has examined loss of face or intergenerational family conflict and their relationship to racial differences in depression among Asian-American and European-American college students. These variables seem directly related to the concept of maintaining harmony within one's group and may be particularly relevant to traditional college students who are in a developmental stage when they seek independence from their families while trying to maintain their status or face with others. They may explain more variance in depression among Asian Americans than European Americans. Moreover, loss of face and intergenerational family conflict may mediate the relationship between race/ethnicity and depression.

### Loss of Face

Loss of face refers to the danger of losing one's social integrity and status in interpersonal dynamics. Face (*mian i* or *lian* in Mandarin Chinese) is an important cultural concept in China, Japan, and other Asian countries. As defined by Zane and Yeh (2002) in their review of the extant research, it is

a person's set of socially-sanctioned claims concerning one's social character and social integrity in which this set of claims or this "line" is largely defined by certain prescribed roles that one carries out as a member and representative of a group. (p. 126)

In other words, having face loosely refers to having a good reputation, honor, prestige, and social value in other people's eyes. Preservation of one's face is related to both individual and group integrity. Loss of face (*diu lian* in Mandarin Chinese) is an important cultural variable for Asians and Asian Americans, but it is certainly not unique to Asians and Asian Americans. Loss of face may negatively affect one's social role and disrupt interpersonal relationships and networks that are of great importance in Asian cultures (Leong, Kim, & Gupta, 2011).

Shame is often used as a mechanism to reinforce societal expectations and appropriate behaviors in Asian cultures (Leong, Lee, & Chang, 2008). Loss of face typically results in shame, which is particularly relevant to Asian Americans because it may discourage them from seeking help for issues they find embarrassing (Zane & Yeh, 2002). Loss of face refers to how one believes

others perceive her/him and shame emphasizes how one perceives herself/himself. The two concepts are often related, but one can occur without the other.

Leong et al. (2008) further suggested that the emotion of shame and the experience of losing face may be associated with heightened levels of emotional distress as the family, community, and society withdraw their approval and support from the individual. Loss of face is significantly correlated with depressive symptoms, fear of negative evaluation, and social avoidance and distress among both Asian Americans and European Americans (Leong et al., 2008). Furthermore, Mak, Chen, Lam, and Yiu (2009) found that loss of face consisted of self-face and other-face among Hong Kong Chinese and Mainland Chinese. Only self-face was positively associated with psychological distress in this study. Thus, sensitivity to loss of face could be one culturally relevant psychological variable that is associated with depression.

### Intergenerational Family Conflict

Family conflict has been primarily examined as everyday conflict among European-American families and acculturation-based conflict among immigrant families (Juang, Syed, Cookston, Wang, & Kim, 2012). Intergenerational family conflict refers to the conflict that adolescents often start to experience as they begin to differentiate from their parents (Lee & Liu, 2001). Within immi-

among Asian Americans due to different rates of acculturation between generations.

### Present Study

The current study sought to apply the disentangling approach (Leong et al., 2013) to understand racial differences in depression between Asian-American and European-American college students by examining two culturally relevant psychological factors—namely, loss of face and intergenerational family conflict. On the basis of existing research, this study posed five hypotheses:

1. Asian-American college students would report higher levels of depression than European-American college students (after controlling for age and gender differences).
2. Asian Americans would have higher scores on loss of face and intergenerational family conflict than European Americans (after controlling for age and gender differences).
3. Loss of face would predict more variance in depression among Asian Americans than European Americans.
4. Intergenerational family conflict would predict more variance in depression among Asian Americans than European Americans.
5. Loss of face and intergenerational family conflict would mediate the relationship between race/ethnicity and depression.

### Method

#### Participants

A total of 553 undergraduate students at a large Midwestern university took the survey. Sixty-five students were removed from the dataset because they did not meet the eligibility criteria (i.e., did not identify as Asian American or European American,  $n = 17$ ; did not complete the survey,  $n = 29$ ; or provided responses outside of the allowed range on the scantrons,  $n = 19$ ). Thus, the final sample consisted of 488 participants. Self-identified Asian-American participants comprised 43% of the sample ( $n = 209$ ). Of those, 89 were male (42.8%) and 119 were female (57.2%). Most Asian-American participants reported they were U.S. citizens ( $n = 172$ ; 83.5%), compared with 14.6% who identified as U.S. permanent residents ( $n = 33$ ) and 4 participants with “other” status. Data on the ethnicity of the Asian-American participants were not collected. On the basis of other Asian-American samples at this institution, 25–30% of students identify as Chinese, 25–30% of students identify as Indian, and 15% identify as Korean, followed by Vietnamese, Filipino, Hmong, Pakistani, and Japanese. More than half of the sample ( $n = 279$ ; 57%) self-identified as European American. Among them, 80 were men (28.7%) and 199 were women (71.3%). Almost all ( $n = 271$ ; 97.5%) European-American participants reported being U.S. citizens. The Asian-American sample had more males than the European-American sample ( $\chi^2 = 10.48, p = .001$ ). The Asian-American sample ( $M = 20.35$  years,

$SD = 1.56$ ) was also younger than the European-American sample ( $M = 20.67$  years,  $SD = 1.51$ ),  $t(461) = 2.30, p = .026$ . There were no differences in family income between the two groups. Almost half of the full sample (43.4%) was first-year students, 24.2% were sophomores, 17.8% were juniors, and 14.7% were seniors.

#### Measures

**Loss of Face.** All participants completed the Loss of Face (LOF) questionnaire (Zane, 1991, 2000), which contains 21 items measuring a person’s self-assessment of sensitivity to face loss in different situations. Items are scored on a 7-point Likert scale ranging from 1 (*strongly disagree*) to 7 (*strongly agree*). Total scores may range from 21 to 147, with higher scores indicating greater concerns with losing face. The psychometric properties of this instrument suggest that it is reliable in assessing the construct of face loss with a high internal consistency (Cronbach’s

ples. A few studies found that positive items may be endorsed less, especially among Chinese Americans, and recommended following up with a diagnostic interview (for a review of CES-D's psychometric properties with Asian-American groups, see Kalibatseva, Wu, & Leong, 2014). In this study, we conducted a measurement equivalence test, which suggested that the CES-D's mean scores can be compared between the two samples. The coefficient  $\alpha$ s for Asian Americans and European Americans were .85 and .84, respectively.

**Demographic questionnaire.** The survey included questions about the birth year, gender, class standing, family income, and citizenship status of the participants.

### Procedure and Data Analyses

Data were collected at three different periods in 2008, 2009–2010, and 2013. All students were recruited from the psychology student subject pool and Asian-American student organizations. Students in psychology classes were awarded credit for their participation. The study was approved by the Michigan State University Institutional Review Board. All participants read and signed a consent form before filling out the paper-and-pencil questionnaires using scantron forms. In the first period of data collection, 104 Asian Americans and 106 European Americans filled out the survey. The second (36 Asian Americans and 173 European Americans) and third set (69 Asian Americans) of participant data were collected in 2009–2010 and 2013, respectively. Comparisons of the first and the combined second and third datasets revealed no significant group differences in the main variables of interest between time points. Therefore, the data were analyzed together. Totals for all questionnaires were scored if missing data were  $\leq 5\%$  (Schlomer, Bauman, & Card, 2010).

First, we conducted multiple regressions to examine whether race/ethnicity was a significant predictor of depression, loss of face, and intergenerational family conflict when age and gender were entered as covariates in the model (Hypotheses 1 and 2).

Second, simple regressions tested if loss of face and intergenerational family conflict predicted depression separately for Asian Americans and European Americans (Hypotheses 3 and 4). The calculated  $R^2$  of each regression implied the amount of between-individual variance in depression explained by loss of face or intergenerational family conflict. In addition, Chow tests were conducted to determine whether the regression coefficients were comparable between the two groups. Lastly, a structural equation model (using Mplus v.6.12) was used to evaluate if loss of face and intergenerational family conflict mediated the relationship between race/ethnicity and depression (Hypothesis 5).

### Measurement Equivalence Tests

A series of measurement equivalence tests of the LOF, FCS, and CES-D were conducted to confirm whether scores were comparable between the Asian- and European-American samples. Multi-group confirmatory factor analysis (CFA) models with a sequence of restrictions were tested using Mplus. Table 1 shows that strong (scalar) invariance is tenable for all of the three measures, which is a requirement for mean comparisons between the two groups. As previous studies recommended, we focused on comparative fit index (CFI), Tucker-Lewis index (TLI), and root mean square error of approximation (RMSEA) to determine goodness of fit (e.g., Kline, 2011; Steenkamp & Baumgartner, 1998) because  $\chi^2$  difference tests are sensitive to large sample sizes. First, for LOF, the weak (metric) invariance model showed a reasonable fit, but the full strong invariance model significantly deteriorated the fit. Then, as the modification indexes of the output suggested, the partial strong invariance was evaluated after adding a pair of interitem correlations to the European-American group, and we confirmed that the model is tenable. For both the FCS and CES-D, the full strong invariance model was supported (see Table 1).

Table 1  
*Measurement Equivalence Between Asian Americans and European Americans for All Scales*

Scale	CFI	TLI	RMSEA [90% CI]	$\chi^2$ (df)	$\Delta\chi^2$ ( $\Delta df$ )
LOF					
Configural invariance	.90	.90	.06 [.05, .06]	637.09 (358)	—
Weak invariance	.91	.90	.06 [.05, .06]	650.20 (378)	13.11 (20)
Strong invariance	.89	.88	.06 [.05, .06]	712.88 (398)	62.82***

\*\*\*that is,  $p < .001$ .

## Results

### Descriptions and Correlations

Table 2 shows the means, standard deviations, and correlations for all variables by racial group. Asian-American students reported higher levels of depression, loss of face, and intergenerational family conflict in both likelihood and seriousness on average than European-American students. Depression was positively associated with loss of face and intergenerational family conflict for both groups.

### Group Comparisons

A series of regression analyses were conducted to evaluate whether Asian-American students scored higher on depression, loss of face, and intergenerational family conflict than European-American students. Table 3 shows all regression results with Asian Americans as the reference group. Both simple regression and multiple regression (controlling for gender and age) coefficients are listed. As predicted in Hypothesis 1, Asian-American college students reported higher depression scores than European-American college students holding age and gender constant. Likewise, Hypothesis 2 was confirmed as Asian Americans scored higher than European Americans on the culturally relevant variables loss of face and intergenerational family conflict.

Table 4 presents the regression coefficients for loss of face and intergenerational family conflict, predicting depression for the entire sample and for each racial group. Loss of face and intensity

of intergenerational family conflict significantly predicted depression among both Asian Americans and European Americans. Chow tests indicated that the comparison of regression reported

LOF and FC to examine whether we could obtain a substantial improvement in model fit. However, a direct comparison between these two models may not be warranted because they are not nested and the number of estimated parameters are not the same between the two models. The results showed that the alternative model was marginally better based on  $\chi^2$ , CFI, and AIC whereas the original model had a better BIC (see Table 5).

### Discussion

The current study examined two culturally relevant psychological variables—loss of face and intergenerational family conflict—and their relationship with depression among Asian-American and European-American college students. The goal of the study was to disentangle existing racial/ethnic differences in self-reported depression scores between Asian-American and European-American students by examining psychological variables (Leong et al., 2013). The study replicated previously observed racial/ethnic differences in depression among college student samples (Abe & Zane, 1990; Okazaki, 1997; Young et al., 2010). Specifically, Asian-American students had higher depression scores on the CES-D than European-American students after controlling for gender and age. Whereas this difference was statistically significant, its effect size was small. Regardless, paired with the findings that Asian Americans tend to seek mental health services less frequently and receive less adequate depression treatment (Alegria et al., 2008), this finding is concerning and emphasizes the need for continued assessment and treatment of depressive symptoms among Asian-American college students.

In addition, we tested the cultural relevance of loss of face and intergenerational family conflict and found that, on average, Asian Americans reported higher mean scores on both variables than European Americans after measurement equivalence was established. Whereas the effect size remained small for loss of face, it was particularly large for intergenerational family conflict. These findings provide validation that these constructs are relevant to both racial/ethnic groups, but intergenerational family conflict has stronger cultural specificity to Asian Americans. On the basis of these results, intergenerational family conflict may be more culturally relevant to Asian Americans than European Americans, as has been suggested by the empirical literature (Lee et al., 2000; Lee & Liu, 2001). For instance, generational status could play a role, such that family conflict may be specifically relevant to first- and second-generation individuals within immigrant families.

Further disentangling of the association of loss of face and intergenerational family conflict with depression among each of the racial/ethnic groups showed that loss of face explained slightly more variance in depression among Asian Americans (5%) than European Americans (3%). Intergenerational family conflict ex-

among both Asian-American and European-American adolescents (Juang et al., 2007) and adults (Leong et al., 2013). The consistency with previous research suggests that these findings may generalize to late adolescents and college students, but it is difficult to determine whether they are applicable to older adults.

This research has important clinical implications because it suggests that loss of face and intergenerational family conflict are associated with depression and need to be directly included in the assessment and intervention process. In particular, therapists need to ask clients about their social networks and close relationships to assess the importance of maintaining status or face. Moreover, saving face in the therapeutic relationship may be crucial for clients who are sensitive to losing face (Kim, Atkinson, & Umemoto, 2001). Failure to attend to the client's need to save face (e.g., through affirmative and culturally sensitive discussion of expectations for the therapeutic relationship) could result in premature termination or dropout. Concern with loss of face may also be associated with underutilization of mental health services among Asian Americans (Leong et al., 2011; Zane & Yeh, 2002). Furthermore, addressing intergenerational family conflict may be particularly important in the treatment of depression among adolescents and college students. Family therapy could provide a potential outlet to do this in a culturally sensitive way (Sue, Zane, Nagayama Hall, & Berger, 2008).

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