Ungar, M., Liebenberg, L., Boothroyd, R., Kwong, W. M., Lee, T. Y., Leblanc, J., . . . Makhnach, A. (2008). The Study of Youth Resilience Across Cultures: Lessons from a Pilot Study of Measurement Development. *Research in Human Development, 5*(3), 166-180. doi:10.1080/15427600802274019

Wei, W. (2013). Adverse childhood experience as a risk factor for adolescent pregnancy in China. *International Journal of Child and Adolescent Health, 6*(3), 323.

Windle, G. (2011). What is resilience? A review and concept analysis. *Reviews in Clinical Gerontology, 21*(02), 152-169. doi:doi:10.1017/S0959259810000420

Wong, J. G. W. S., Cheung, E. P. T., Chan, K. K. C., Ma, K. K. M., & Wa Tang, S. (2006). Web-Based Survey of Depression, Anxiety and Stress in First-Year Tertiary Education Students in Hong Kong. *Australian and New Zealand Journal of Psychiatry, 40*(9), 777-782. doi:10.1080/j.1440-1614.2006.01883.x

World Health Organization. (2016). Adverse Childhood Experiences International Questionnaire (ACE-IQ).   Retrieved from www.who.int/violence_injury_prevention/violence/activities/adverse_childhood_experiences

Yeh, K.-H., & Bedford, O. (2003). A test of the Dual Filial Piety model. *Asian Journal of Social Psychology, 6*(3), 215-228. doi:doi:10.1046/j.1467-839X.2003.00122.x

Zigmond, A. S., & Snaith, R. P. (1983). The hospital anxiety and depression scale. *Acta Psychiatrica Scandinavica, 67*(6), 361-370.

Table 1. Participant Characteristics, Mental Health, and ACE by Overall ACE Exposure

	Full sample (N =433)		No ACE (n =111)		At least 1 ACE (n =322)	
Participant Characteristics						
Mean age in years (x̄, SD)	20.16	(1.67)	20.35	(1.74)	20.10	(1.64)
Male (n, %)	178	(41.11)	48	(43.24)	130	(40.37)
Degree (n, %)						
Associate	218	(50.34)	51	(45.95)	167	(51.86)
Bachelor	215	(49.65)	60	(54.05)	155	(48.14)
Number of current stressors (x̄, SD)*	3.09	(1.79)	2.60	(1.42)	3.25	(1.88)
Resilience (CD-RISC2) (x̄, SD)	4.99	(1.41)	4.81	(1.31)	5.05	(1.44)
Current Mental Health						
Depression (HADS-D) (x̄, SD)	6.91	(3.41)	6.68	(3.18)	6.99	(3.49)
Anxiety (HADS-A) (x̄, SD)	9.20	(3.70)	9.08	(3.61)	9.25	(3.73)
Maladjustment (ADNM-20) (x̄, SD)*	41.71	(13.21)	38.61	(11.90)	42.79	(13.49)
PTSD/CPTSD (n, %)*	41	(9.69)	4	(3.60)	37	(11.49)
ACE Exposure						
Cumulative ACE exposure (n, %)						
0	111	(25.64)	111	(100.00)	-	-
1	122	(28.18)	-	-	122	(37.89)
2	65	(15.01)	-	-	65	(20.19)
3	54	(12.47)	-	-	54	(16.77)
4	51	(11.78)	-	-	51	(15.84)
5+	30	(6.92)	-	-	30	(9.32)
ACE category (n, %)						
Emotional Neglect	68	(15.70)	-	-	68	(21.12)
Physical Neglect	19	(4.39)	-	-	19	(5.90)
Physical Abuse	173	(39.95)	-	-	173	(53.73)
Emotional Abuse	88	(20.32)	-	-	88	(27.33)
Sexual Abuse	57	(13.16)	-	-	57	(17.70)
Family Substance Use	14	(3.23)	-	-	14	(4.35)
Family Incarceration	13	(3.00)	-	-	13	(4.04)
Family Mental Illness	72	(16.63)	-	-	72	(22.36)
Parental Death or Separation	103	(23.79)	-	-	103	(31.99)
Domestic Violence	132	(30.48)	-	-	132	(40.99)
Bullying	27	(6.24)	-	-	27	(8.39)
Community Violence	7	(1.62)	-	-	7	(2.17)
Collective Violence	20	(4.62)	-	-	20	(6.21)

*Statistically significant difference between those with no ACE and at least one ACE at p<0.05.

Table 2. Relationships between Adverse Childhood Experiences and Mental Health Outcomes (N=433)

Predictors	Depression Coefficient (SE)		Anxiety Coefficient (SE)		Maladjustment Coefficient (SE)		PTSD/CPTSD Odds Ratio (SE)	
	Step 1	Step 2	Step 1	Step 2	Step 1	Step 2	Step 1	Step 2
Overall ACE Exposure								
Age	0.12 (0.11)	0.09 (0.11)	0.07 (0.12)	0.03 (0.11)	1.01 (0.42)*	0.90 (0.39)*	1.30 (1.63)*	1.28 (0.17)
Gender (Ref: Male)	-0.35 (0.32)	-0.67 (0.30)*	0.38 (0.34)	-0.03 (0.30)	2.24 (1.16)	1.25 (1.11)	1.13 (4.12)	0.92 (0.35)
Degree (Ref: Associate)	-1.19 (0.38)**	-1.15 (0.35)**	-0.50 (0.40)	-0.45 (0.36)	-0.61 (1.39)	-0.48 (1.32)	0.60 (0.27)	0.64 (0.30)
Number of current stressors	0.60 (0.09)**	0.46 (0.08)**	0.84 (0.09)**	0.67 (0.08)**	3.17 (0.32)**	2.74 (0.31)**	1.51 (0.13)**	1.43 (0.13)**
ACE Exposure (Ref: No)	-0.11 (0.36)	0.18 (0.34)	-0.41 (0.38)	-0.02 (0.34)	2.27 (1.31)	3.20 (1.25)*	2.63 (1.46)	2.96 (1.67)
Resilience	---	-0.87 (0.11)**	---	-1.12 (0.11)**	---	-2.71 (0.39)**	---	0.58 (0.08)**
Adjusted R^2/ Pseudo R^2	0.11	0.23	0.16	0.33	0.21	0.29	0.13	0.19
Model comparison; *LR Chi^2(1)*	---	64.04**	---	98.53**	---	45.61**	---	17.40**
Cumulative ACE Exposure								
Age	0.12 (0.11)	0.08 (0.11)	0.06 (0.12)	0.02 (0.11)	0.97 (0.42)*	0.85 (0.40)*	1.28 (0.17)	1.27 (0.17)
Gender (Ref: Male)	-0.34 (0.32)	-0.66 (0.30)*	0.37 (0.34)	-0.04 (0.30)	2.20 (1.16)	1.20 (1.11)	1.06 (0.39)	0.85 (0.33)
Degree (Ref: Associate)	-1.20 (0.38)**	-1.16 (0.36)*	-0.52 (0.40)	-0.48 (0.36)	-0.67 (1.39)	-0.59 (1.32)	0.54 (0.25)	0.59 (0.29)
Number of current stressors	0.59 (0.09)**	0.44 (0.09)**	0.81 (0.10)**	0.63 (0.09)**	2.97 (0.34)**	2.52 (0.33)**	1.43 (0.14)**	1.35 (0.14)**
ACE Score (Ref: 0)								
1	-0.15 (0.42)	0.14 (0.40)	-0.47 (0.45)	-0.08 (0.40)	1.60 (1.54)	2.54 (1.47)	2.48 (1.53)	2.97 (1.86)
2	0.04 (0.51)	0.16 (0.47)	-0.73 (0.54)	-0.58 (0.48)	1.49 (1.85)	1.86 (1.75)	1.01 (0.81)	0.99 (0.80)
3	-0.39 (0.54)	0.12 (0.51)	-0.31 (0.57)	0.22 (0.51)	2.58 (1.97)	3.85 (1.87)*	1.59 (1.20)	2.03 (1.55)
4	-0.02 (0.55)	0.39 (0.52)	-0.22 (0.58)	0.31 (0.52)	3.08 (2.00)	4.37 (1.91)*	4.74 (3.04)*	5.34 (3.59)*
5+	09 (0.70)	0.42 (0.66)	0.24 (0.74)	0.67 (0.66)	6.05 (2.56)*	7.09 (2.43)**	5.72 (4.01)*	7.50 (5.42)**
Resilience	---	-0.87 (0.11)**	---	-1.13 (0.11)**	---	-2.75 (0.39)**	---	0.57 (0.08)**
Adjusted R^2/ Pseudo R^2	0.10	0.22	0.15	0.33	0.21	0.29	0.16	0.23
Model comparison; *LR Chi^2(1)*	---	63.91**	---	101.29**	---	47.23**	---	18.41**

*Significant at $p<0.05$; **Significant at $p<0.01$