Article

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Cross-ethnic friendship self-efficacy: A new predictor of cross-ethnic friendships among children

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Abstract

Across two studies ($N_{\text{Study 1}} = 101$; $N_{\text{Study 2}} = 262$) conducted among children in the UK, we incorporate Bandura's (1986) self-efficacy theory to intergroup contact literature and introduce the new construct of cross-ethnic friendship self-efficacy (CEFSE), the belief that one can successfully form and maintain high-quality cross-ethnic friendships. Study 1 examined whether sources of CEFSE beliefs (prior contact, indirect contact, social norms, and intergroup anxiety) predicted higher quality cross-ethnic friendship quality as a further predictor. In both studies, sources of self-efficacy beliefs (except social norms) were related to CEFSE, which predicted higher quality cross-ethnic friendships. Study 2 demonstrated that parental cross-ethnic friendships had direct and indirect associations with children's cross-ethnic friendships through sources of CEFSE and CEFSE beliefs. Findings are discussed in the light of self-efficacy and intergroup contact theories.

Keywords

children, cross-ethnic friendships, intergroup contact, parents, self-efficacy

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In a world that is becoming increasingly diverse, it is critical to understand how people establish successful interpersonal relationships that cross group boundaries. For children, it may be challenging to navigate these complex relationships, especially in educational settings where ethnic and cultural diversity is now an important aspect of many children's schooling experiences. Although such ethnically diverse school settings provide children with opportunities to form a diverse social network (Bagci, Kumashiro, Smith, Blumberg, & Rutland, 2014; Sturgis, Brunton-Smith, Kuha, & Jackson, 2014), intergroup contact is often avoided (Paolini, Harwood, Hewstone, & Neumann, 2018) and for

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many, cross-group friendships are difficult to initiate and maintain (Kao & Joyner, 2004; Pica-Smith, 2011; Shelton, Trail, West, & Bergsieker, 2010). Despite their relative rarity, however, high quality friendships with members of other ethnic groups provide unique benefits for children, not only in relation to improved outgroup attitudes (Aboud, Mendelson, & Purdy, 2003; Feddes, Noack, & Rutland, 2009; Turner, Hewstone, & Voci, 2007; Wölfer, Schmid, Hewstone, & Zalk, 2016), but also regarding positive developmental outcomes such as improved social skills (Lease & Blake, 2005), increased psychological resilience and sense of safety (Bagci, Rutland, Kumashiro, Smith, & Blumberg, 2014; Munniksma & Juvonen, 2012), as well as increased academic well-being (Bagci, Kumashiro, Rutland, Smith, & Blumberg, 2017) and greater openness to experience (Vezzali, Turner, Capozza, & Triffiletti, 2018). Moreover, research shows that cross-ethnic friendships in childhood have long-term consequences, such as the formation of more positive outgroup attitudes in adolescence (Wölfer et al., 2016) and a more diverse social network in adulthood (Emerson, Kimbro, & Yancey, 2002). Therefore, more research is needed to understand how children engage in cross-ethnic friendships and identify the conditions that encourage cross-ethnic friendship initiation and maintenance.

In this paper we extend existing research on the formation of cross-ethnic friendships by introducing the concept of cross-ethnic friendship self-efficacy (CEFSE), the belief that one can successfully form and maintain a high-quality cross-ethnic friendship, through two studies conducted among secondary school children in the UK. Drawing on Bandura's model of self-efficacy (1986) and previous theoretical models in the intergroup contact literature (e.g., confidence in contact model; Turner & Cameron, 2016), we examined CEFSE in relation to four dimensions of self-efficacy beliefs suggested by Bandura (1986) and tested the associations between CEFSE and cross-ethnic friendship quality (Studies 1 and 2). Next, conceptualizing CEFSE and its sources as mediating variables, we investigated whether perceived parental cross-ethnic friendship quality predicted cross-ethnic friendship quality among both ethnic majority- and minority-status children (Study 2).

CEFSE Model and Cross-Ethnic Friendships

We argue that in order to better understand the formation of cross-group interactions among children, we first need to investigate whether children have sufficient motivational background to engage in such interactions that are often assumed to be challenging and anxiety-provoking (e.g., Shelton et al., 2010). Recent theoretical work in cross-group friendship literature highlighted the role of confidence in contact, suggesting that children need to be "contact ready" and "selfefficacious" in order to engage in intergroup contact behavior (confidence in contact model; Cameron & Turner, 2017; Turner & Cameron, 2016). According to Bandura's self-efficacy theory (1977, 1986), one of the most important determinants of behavioral self-regulation that leads individuals to engage in certain behaviors and activities is their level of self-efficacy, which is defined as an individual's belief or confidence in his/her ability to carry out a particular behavior in order to achieve a specific outcome (Ajzen, 2002; Bandura, 1986, 1997; Zimmerman, Bandura, & Martinez-Pons, 1992). Hence, we introduce the concept of CEFSE (cross-ethnic friendship self-efficacy), which indicates the extent to which children believe they can successfully build and maintain cross-ethnic friendships, and test whether CEFSE successfully predicts cross-ethnic friendship quality among children. To date, only a few studies have examined selfefficacy in the context of intergroup contact (Mak & Tran, 2001; Mazziotta, Mummendey, & Wright, 2011; Stathi, Crisp, & Hogg, 2011; Titzmann, Brenick, & Silbereisen, 2015) and either defined contact self-efficacy as an outcome variable defined as the willingness to engage in future contact or concentrated on contact-specific (but not friendship-specific) self-efficacy beliefs. According to Bandura (2012), self-efficacy beliefs diverge significantly from actions and

intentions and represent a person's self-appraisal about his/her subsequent performance rather than his/her willingness (intention) to perform it. Moreover, it is essential that self-efficacy beliefs are domain-specific; that they assess one's beliefs in the performance of a particular behavior. The construct of CEFSE thereby involves children's perceived self-efficacy beliefs in engaging specifically in cross-group friendship behavior. Previous research in self-efficacy literature has consistently shown self-efficacy beliefs to be an important predictor of effort, motivation, and enthusiasm towards engaging in the relevant behavior and to provide persistence and perseverance individuals exert when they are faced with difficulties (e.g., Pajares, 2003; Zimmerman et al., 1992). Therefore, CEFSE is likely to predict children's actual cross-ethnic friendships by providing the necessary motivation to form successful crossethnic friendships and persistence to maintain such behavior in the face of challenges.

We further aimed to test the sources of CEFSE, drawing on the original self-efficacy sources suggested by Bandura (1986). Accordingly, the positive belief that one can successfully form and maintain a cross-ethnic interaction partner should be related to four factors: (a) enactive experiences, that is, whether children successfully engaged in cross-ethnic friendship behavior in the past; (b) vicarious experiences, that is, whether children observe peers and parents who have cross-ethnic friends; (c) social persuasion, that is, whether children are encouraged by others to form cross-ethnic friends; and (d) physiological states, that is, whether children feel comfortable or anxious in forming cross-ethnic friendships. Past research has demonstrated that, in line with each of these sources, cross-group friendships are predicted by previous contact experiences in earlier stages of life (e.g., Emerson et al., 2002; Tropp, O'Brien, & Migacheva, 2014), by extended and vicarious contact (e.g., Schofield, Hausmann, Ye, & Woods, 2010), by social norms (e.g., Tropp et al., 2014), and by intergroup anxiety (e.g., Page-Gould, Mendoza-Denton, & Tropp, 2008). These predictors have been previously tested as individual facilitators or inhibitors of cross-group friendships

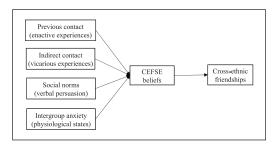


Figure 1. Conceptual model of CEFSE. Note. CEFSE = cross-ethnic friendship self-efficacy.

with no previous attempt to incorporate all these factors under a single model. While a recent theoretical approach, the confidence in contact model (Turner & Cameron, 2016), generated an integrated framework identifying the numerous factors associated with cross-group friendship formation, this has not been empirically tested. The current research extends this work by incorporating these factors using Bandura's self-efficacy theory (1977, 1986). Our suggested conceptual model is presented in Figure 1.

The Role of Parents in Children's Intergroup Behaviors

We further propose that children's cross-ethnic friendships would be predicted by parental crossethnic friendships via sources of CEFSE and thereby CEFSE beliefs. Parents constitute major agents of socialization in childhood, with children learning and conforming to their parents' attitudes and values through observation and imitation, as well as direct instruction (e.g., Katz, 2003). Children usually internalize these parental attitudes and receive disapproval if they do not comply with these norms (e.g., Smith, Maas, & Tubergen, 2015). Given the central role of parents in the socialization process, strong evidence has been compiled regarding the influential role of parental attitudes in the formation of children's attitudes towards various concepts, including intergroup attitudes (e.g., Branch & Newcombe, 1986; Duriez & Soenens, 2009; Edmonds & Killen, 2009; Meeusen, 2014; Meeusen & Dhont, 2015; Miklikowska, 2015) and prejudice (Castelli, Zogmaister, & Tomelleri, 2009; Sinclair, Dunn, & Lowery, 2005).

While the majority of this research literature has examined the role of parents' attitudes in children's intergroup attitudes and behaviors, few studies have investigated associations in terms of actual cross-group friendship behavior. Meeusen (2014) proposed that parental cross-group friendships are an important source of motivation for children to form cross-group friendships, since they provide children with opportunities for extended contact, which is to observe a close ingroup member to have a successful cross-group friendship (Wright, Aron, McLaughlin-Volpe, & Ropp, 1997). Parents' cross-group friendships also meet the criteria of Allport's contact conditions (1954), as parents constitute authority figures for children. Similarly, Smith et al. (2015) found that parents' cross-group friendships were related to children's cross-group friendships, and this association was partly mediated by children's positive outgroup attitudes. In a recent study, Bagci and Gungor (2019) investigated associations between perceived positive and negative parental contact and children's positive and negative contact and found these associations to be mediated by intergroup anxiety and perspective-taking, as well as by intergroup attitudes and behavioral intentions. Overall, this research literature indicates that the formation of cross-ethnic friendships among children is likely to be predicted by perceived parental cross-ethnic friendship behavior.

Extending these findings, we suggest that the associations between perceived parental cross-ethnic friendship quality and children's cross-ethnic friendship quality would be partly mediated by sources of CEFSE and thereby CEFSE beliefs. Bandura (1997) stated that if the social environment where children are raised provides children with vicarious learning experiences and supportive communication of a specific behavior, children would be more likely to display higher levels of self-efficacy beliefs, which would in turn increase the likelihood of the occurrence of the actual behavior (e.g., W. Fan & Williams, 2010). Indeed, self-efficacy research and social cognitive learning theories have previously shown that children's self-efficacy beliefs are often drawn from both individual and social cues in the environment (Bandura, 1986). Parents and families, forming the direct social environment of children especially during early adolescence, usually play a critical role in the formation of children's self-efficacy beliefs in various domains (Bagci, 2018; Bandura, Barbaranelli, Caprara, & Pastorelli, 2001). Therefore, we propose that perceived parental cross-ethnic friendship quality would be related to the functioning of various sources of CEFSE and consequently associated with greater CEFSE and higher quality cross-ethnic friendships among children. More specifically, we hypothesize that parental cross-ethnic friendship quality would provide early experiences of direct contact at the home environment and thereby would be associated with the formation of both early direct and indirect contact experiences in children's school setting, would relate to more positive social norms about cross-ethnic relationships as well as lower levels of intergroup anxiety. These various sources of CEFSE are in turn likely to predict more positive CEFSE beliefs and, consequently, higher quality cross-ethnic friendships among children.

Study 1

Study 1 explored whether four sources of CEFSE (prior contact, indirect contact, social norms, and intergroup anxiety) predicted self-efficacy beliefs, and whether such efficacy beliefs were related to current cross-ethnic friendship quality. We focused on Year 7 and Year 8 secondary school students in an ethnically heterogeneous school environment, where status differences are less salient and thereby children have the opportunities to build cross-ethnic friendships. The focal age group is also critical for the development of self-efficacy beliefs in general; during early adolescence, many children start to reformulate their efficacy beliefs according to newly emerging motivational goals, which therefore makes the cultivation of self-efficacy beliefs among children and youth especially important during this transitional period (Bagci, 2018; Bandura et al., 2001; Eccles & Midgley, 1989). We also focused on cross-ethnic friendship quality and specifically

closeness as an indicator of cross-ethnic friendships, since previous research has demonstrated quality of friendships to represent a stronger assessment of cross-group friendships (e.g., Bagci, Rutland, et al., 2014; Davies, Tropp, Aron, Pettigrew, & Wright, 2011).

Method

Participants and Procedure

A total of 101 students in Year 7 or Year 8 (56 females, 41 males, four chose not to reveal; $M_{age} =$ 12.29 years, $SD_{age} = 0.57$) participated in the study individually in a classroom setting and selfreported their ethnic background based on the instruction presented to them at the beginning of the survey (see supplementary material). Participants were from different ethnic backgrounds, including White British (24%), Black British (45%), Asian British (11%), and mixed heritage (20%), which broadly reflected the ethnic make-up of the whole school. The school, which is located in London, was approached by the researchers at the beginning of the term. Children with parental and school permission for participation in the study completed the survey. At the start of the session, the researcher explained the study aims and instructions for completion of the survey to the class, and participants were debriefed following completion of the survey.

Measures

Unless reported otherwise, participants answered the items by indicating to what extent they agreed (1 = strongly disagree, 5 = strongly agree) with each statement.

Cross-Ethnic Friendship Self-Efficacy Scale. Since previous research has focused on self-efficacy in cross-ethnic/race contact rather than friendships, a new CEFSE scale was designed for the aim of this research. Using Bandura's self-efficacy measurement guide (Bandura, 2006) and previous research that used various self-efficacy measures, such as Social Self-Efficacy Scale (Matsushima & Shiomi, 2002), Social Self-Efficacy Scale for Students (C. Fan & Mak, 1998), Contact Self-Efficacy Measure (Stathi et al., 2011), and Gender-Based Relationship Efficacy Scale (Zosuls, Field, Martin, Andrews, & England, 2014), a nine-item CEFSE scale was constructed. Items related to how confident children felt in building high-quality cross-ethnic friendships. The scale was composed of items that measure characteristics of friendship quality such as spending time together, self-disclosure, trust, and shared interests (e.g., "I am confident I would be able to get close to a new friend from another ethnic group"; "I believe I could find many things in common with new friends from another ethnic group"), since previous research has specifically indicated that time spent and self-disclosure were critical indicators of cross-group friendships (Davies et al., 2011). An initial confirmatory factor analysis revealed an acceptable fit level of this structure after excluding one item ("I don't think I would be able to make new friends with people from ethnic groups other than my own"; reversecoded), $\chi^2(18) = 35.94$, p = .010, $\chi^2/df = 2.00$, CFI = 0.95, RMSEA = .09, SRMR = .05, demonstrating all item loadings to be over .40.1 All indicators significantly loaded on the CEFSE measure and the scale formed a reliable scale (α = .87). See Tables S1–S3 in the supplementary material for the list of items and item statistics.

Sources of Self-Efficacy Scale. Another scale was constructed to measure sources of CEFSE. Items were adapted from Lent, Lopez, and Bieschke's Sources of Science Self-Efficacy Scale (1991) and from the Sources of Social Self-Efficacy Expectation Scale (Anderson & Betz, 2001). Participants rated their agreement with 11 statements. Two items were removed as they reduced the reliability of the subscale (see supplementary material). The scale included four individual subscales, each measuring a specific self-efficacy source: (a) prior contact representing enactive experiences (e.g., "Thinking back to primary school, I was good at making close friends from ethnic groups other than my own"; r = .46, p < .001; (b) indirect contact representing vicarious experiences (e.g., "Lots of my friends have close friends who belong to ethnic groups other than their own"; two items, r = .46, p < .001; (c) social norms representing social persuasion (e.g., "Our teachers in primary school would encourage us to be friends with people from other ethnic groups"; two items, r = .33, p = .001); and (d) intergroup anxiety representing negative physiological states in response to cross-ethnic contact (e.g., "If I was starting to form a friendship with someone who belonged to an ethnic group other than my own I would feel comfortable", reverse-coded; three items, $\alpha = .76$). A confirmatory factor analysis revealed a good fit level of this structure, $\chi^2(21)$ = 27.99, p = .14, χ^2/df = 1.33, CFI = 0.97, RMSEA = .06, SRMR = .05, with all items significantly loading on corresponding latent factors (see Tables S4-S6 in the supplementary material for the list of items and item statistics).

Cross-ethnic friendship quality. Cross-ethnic friendships were measured by a single-item quality measure assessing participants' self-reported closeness to their cross-ethnic friends (1 = notvery close, 5 = extremely close), which was previously used to assess cross-ethnic friendship quality (Bagci, Rutland, et al., 2014).

Results

Data were analyzed with Mplus software Version 7 (Muthén & Muthén, 1998–2017). The following goodness of fit indices were used: chi-square test, root mean square error of approximation (RMSEA), standardized root mean square residual (SRMR), and comparative fit index (CFI). A good fit is achieved by a nonsignificant chi-square test, a CFI value greater than .95, an RMSEA of less than .06, and an SRMR of less than .08 (Hu & Bentler, 1999). Indirect effects were computed with the Model Indirect command on Mplus and bootstrapping technique (using 1,000 samples and 95% confidence intervals; descriptive statistics are given in Table 1).

The final model with sources of CEFSE as manifest independent variables, CEFSE as the mediator (indicated by three parcels using partial disaggregation method; Bagozzi & Heatherton, 1994), and cross-ethnic friendship quality as the outcome variable demonstrated an excellent fit, $\chi^2(10) = 6.01, p = .81, \chi^2/df = 0.61, CFI = 1.00,$ $RMSEA = .00, SRMR = .02.^{2} Among sources of$ CEFSE, both prior contact and indirect contact were positively associated with CEFSE ($\beta = .20$, p = .03 and $\beta = .32$, p < .001, respectively). Intergroup anxiety, on the other hand, predicted lower levels of CEFSE ($\beta = -.35$, p < .001), whereas social norms did not have a significant association with CEFSE ($\beta = .14, p = .13$). In turn, CEFSE was positively and strongly associated with cross-ethnic friendship quality (β = .41, p < .01). Among the sources of CEFSE beliefs, intergroup anxiety (but not other sources) was also directly and negatively associated with cross-ethnic friendship quality.

A closer look at the indirect effects indicated that prior contact was marginally significantly related to current cross-ethnic friendship quality through CEFSE (IE = .09, SE = 0.05, p =.08, 95% CI [0.00, 0.23]). Both indirect contact and intergroup anxiety were indirectly related to cross-ethnic friendhsip quality via CEFSE, albeit in opposite directions (IE = .13, SE =0.06, p = .02, 95% CI [0.02, 0.25], and IE = -.17, SE = 0.07, p = .02, 95% CI [-0.36, -0.03], respectively). Figure 2 illustrates the mediation model.

Study 2

In summary, Study 1 showed that all sources of CEFSE, except social norms which represented social persuasion from teachers and parents, predicted the positive belief that one can successfully form and maintain cross-ethnic friendships, which was in turn related to higher quality cross-ethnic friendships. Therefore, as predicted, CEFSE was strongly associated with the level of closeness with actual cross-ethnic friends, highlighting the need to instill positive beliefs about the formation of successful cross-group contact in order to improve

ean (SD)	2	3	4	5	6
3 (0.96)	.46***	.35***	39***	.50***	.40***
6 (1.03)	-	.36***	32***	.54***	.30**
9 (0.81)		-	51***	.46***	.26*
07 (0.86)			-	55***	53***
32 (0.75)					.54***
	ean (SD) 33 (0.96) 76 (1.03) 99 (0.81) 77 (0.86) 32 (0.75)	33 (0.96) .46*** 66 (1.03) - 99 (0.81) 17 (0.86)	33 (0.96) .46*** .35*** 36 (1.03) - .36*** 99 (0.81) - 77 (0.86) - 92 (0.75) -	33 (0.96) .46*** .35*** 39*** 76 (1.03) - .36*** 32*** 99 (0.81) - 51*** 77 (0.86) - -	$33 (0.96)$ $.46^{***}$ $.35^{***}$ 39^{***} $.50^{***}$ $36 (1.03)$ $.36^{***}$ 32^{***} $.54^{***}$ $99 (0.81)$ $ 51^{***}$ $.46^{***}$ $77 (0.86)$ $ 55^{***}$ $32 (0.75)$ $ 55^{***}$

Table 1. Descriptive statistics of Study 1.

Note. CEFSE = cross-ethnic friendship self-efficacy; CE = cross-ethnic. *p < .05. **p < .01. ***p < .001.

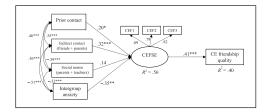


Figure 2. Structural model linking sources of CEFSE to cross-ethnic friendship quality through CEFSE. *Note.* Final model fit: $\chi^2(10) = 6.01$, p = .81, $\chi^2/df = 0.61$, CFI = 1.00, RMSEA = .00, SRMR = .02. Direct associations between sources of CEFSE and friendship quality are not shown, for simplicity. Cross-ethnic friendship quality ($\beta = .12, p = .21$), indirect contact ($\beta = -.06, p = .56$), or social norms ($\beta = -.14, p = .16$), but was significantly predicted by intergroup anxiety ($\beta = -.32, p = .002$). CEFSE = cross-ethnic friendship self-efficacy; CE = cross-ethnic. *p < .05. ***p < .001.

cross-ethnic relationships. This can be particularly achieved by decreasing intergroup anxiety, which was a strong predictor of both CEFSE and crossethnic friendship quality, standing as one of the most critical variables that have been previously suggested to inhibit volitional contact (Paolini et al., 2018; Turner & Cameron, 2016). Indirect contact was also an important predictor of CEFSE, confirming the importance of extended contact for better intergroup relationships, especially in school settings (e.g., Cameron & Rutland, 2006; Vezzali, Stathi, Giovannini, Capozza, & Visintin, 2015). In Study 2, we aimed to extend the findings of Study 1 in two main ways: (a) introduce parental crossethnic friendships as a further variable in the associations between CEFSE sources, CEFSE beliefs,

and child cross-ethnic friendships, (b) use a larger and more representative sample to generalize our findings.

Method

Participants and Procedure

A total of 262 Year 7 and Year 8 children ($M_{age} =$ 12.45, SD = 0.50, 103 males, 153 females, six unknown), including 141 White British, 22 White other, 16 mixed heritage, 66 Asian, 16 Black, and 1 other ethnicity, were recruited from three different schools located in London and Kent in the UK. Emails were sent to local schools with a summary of the study's aims. Opt-out forms were delivered to parents who were given a fortnight to respond. Data were collected in classrooms and students were given informed consent forms stating ethical procedures involved in the study. The completion of the questionnaire took between 15 and 30 minutes and children were debriefed at the end of the study.

Measures

CEFSE. The same 11-item CEFSE scale assessing children's perceived ability to form and maintain successful cross-ethnic friendships was used in Study 2. An initial reliability analysis demonstrated that three items decreased reliability (Items 2, 4, and 6); after their removal, the final reliability was satisfactory (see supplementary material, $\alpha = .79$). An initial confirmatory factor analysis (CFA) with the remaining variables demonstrated a good fit to the data with these items, $\chi^2(7) = 9.39$, p = .23, $\chi^2/df = 1.34$, CFI = 0.99, RMSEA = .04, SRMR = .02, with all items loading significantly on the CEFSE factor (all factor loadings > .40).³

Sources of CEFSE. The same Sources of CEFSE Scale was used in Study 2.4 Prior contact representing enactive experiences included the same two items as in Study 1 ("Thinking back to primary school, I was good at making close friends from ethnic groups other than my own," "I am still very close with the friends I made in primary school who belong to ethnic groups other than my own"; r = .28, p < .001). For indirect contact representing vicarious experiences, we used one item related to extended contact with friends ("Lots of my friends have close friends who belong to ethnic groups other than their own"), and for social norms representing social persuasion we used one item related to parental social persuasion ("My parents would support me if I wanted to make new friends from other ethnic groups"). For intergroup anxiety representing negative physiological states, we used the same three items as in Study 1. One item was discarded because it reduced the subscale's reliability ("If I was starting to form a friendship with someone who belonged to an ethnic group other than my own I would feel comfortable"; r with two items = .63, p < .001). The supplementary material includes the list of items in Study 2.

Children's cross-ethnic friendship quality. Quality of cross-ethnic friendships among children was measured by two items ("How close are you with friends from the other ethnic group?"; "How much time do you spend with these friends?"; Bagci et al., 2017). The quality dimension with two items formed a reliable scale (r = .63, p < .001).

Perceived parental cross-ethnic friendship quality. Following the same procedure as for children's friendships, participants were asked to rate the quality of their parents' cross-ethnic friendships with two items: "How close are your parents to their friends from other ethnic groups?" (1 = not very close, 5 = extremely close), and "How often do your parents spend time with their friends from other ethnic groups?" (1 = not very often, 5 = very often). The two items formed a reliable scale (r = .56, p < .001).

Results

The structural model included parental crossethnic friendship quality as the main independent variable, sources of CEFSE and CEFSE (represented by two parcels each containing three items; Bagozzi & Heatherton, 1994) as serial mediators, and child cross-ethnic friendship quality as the main dependent variable. We also controlled for gender (1 = male, 2 = female) and ethnic group status (1 = minority group status, 2 = majoritygroup status).⁵ The model demonstrated excellent fit, $\chi^2(26) = 38.65$, p = .05, $\chi^2/df = 1.49$, CFI = 0.98, RMSEA = .04, SRMR = .03. As expected, perceived parental cross-ethnic friendship quality predicted a higher level of prior contact ($\beta = .33, p < .001$), a higher level of indirect contact ($\beta = .31, p < .001$), and more positive social norms ($\beta = .35, p < .001$), but did not relate to intergroup anxiety ($\beta = .04, p = .61$). In turn, except social norms ($\beta = .10, p = .14$), all sources of CEFSE were related to CEFSE beliefs; both prior and indirect contact provided more positive CEFSE beliefs ($\beta = .28, p < .001$, and $\beta = .16, p = .01$, respectively), whereas intergroup anxiety was negatively related to the belief that one can successfully form and maintain a cross-ethnic friendship ($\beta = -.34, p < .001$). In turn, CEFSE predicted higher quality cross-ethnic friendships in children ($\beta = .29, p = .001$). Parental cross-ethnic friendship quality was also directly associated with children's cross-ethnic friendship quality ($\beta = .57, p < .001$; descriptive statistics are presented in Table 2).

A further look at the indirect effects showed that parental cross-ethnic friendship quality was associated with higher levels of prior contact and indirect contact among children, which then related to CEFSE and from CEFSE to children's own cross-ethnic friendship quality (IE = .03, SE

	Mean (SD)	2	3	4	5	6	7
1. Parent CEF quality	2.94 (1.05)	.44***	.30***	.29***	.27***	.06	.27***
2. Child CEF quality	3.55 (1.05)	-	.25***	.10	.23***	.02	.39***
3. Prior contact	3.72 (0.91)		-	.21**	.19**	03	.32***
4. Indirect contact	4.26 (0.89)			-	.11†	19**	.28***
5. Social norms	3.81 (0.94)				-	.08	.23***
6. Intergroup anxiety	2.69 (1.20)					-	30***
7. CEFSE	3.72 (0.64)						-

Table 2. Descriptive statistics of Study 2.

Note. CEF = cross-ethnic friendship(s); CEFSE = cross-ethnic friendship self-efficacy. p = .06. * p < .05. * * p < .01. * * * p < .001.

Table 3. Direct associations between main study variables in Study 2.

Direct effects	β	SE	Þ	95% CI Lower bound	95% CI Upper bound
Parent CEF \rightarrow Prior contact	.33	0.07	< .001	0.18	0.49
Parent CEF \rightarrow Indirect contact	.31	0.07	< .001	0.17	0.50
Parent CEF \rightarrow Social norms	.35	0.07	<.001	0.20	0.53
Parent CEF \rightarrow Intergroup anxiety	.04	0.07	.61	-0.16	0.26
Parent CEF \rightarrow CEFSE	.22	0.08	.009	0.02	0.29
Parent CEF \rightarrow Child CEF	.57	0.09	<.001	0.36	0.97
Prior contact \rightarrow CEFSE	.28	0.06	<.001	0.10	0.28
Indirect contact \rightarrow CEFSE	.16	0.06	.01	0.02	0.19
Social norms \rightarrow CEFSE	.10	0.07	.14	-0.04	0.17
Intergroup anxiety \rightarrow CEFSE	34	0.06	<.001	-0.25	-0.10
Prior contact \rightarrow Child CEF	.03	0.07	.66	-0.15	0.21
Indirect contact \rightarrow Child CEF	.02	0.07	.73	-0.13	0.17
Social norms \rightarrow Child CEF	19	0.07	.009	-0.38	-0.04
Intergroup anxiety \rightarrow Child CEF	.04	0.07	.64	-0.10	0.15
$CEFSE \rightarrow Child CEF$.29	0.09	.001	0.02	0.80

Note. Standardized direct effect estimates are provided. CEF = cross-ethnic friendship(s); CEFSE = cross-ethnic friendship self-efficacy.

= 0.01, p = .03, 95% CI [0.00, 0.06] for prior contact, and IE = .02, SE = 0.01, p = .07, 95% CI [0.00, 0.04] marginally significant for indirect contact). Except social norms, all three sources of CEFSE also seemed to indirectly relate to cross-ethnic friendship quality in children through CEFSE beliefs (IE = .09, SE = 0.04, p = .01, 95% CI [0.00, 0.17] for prior contact; IE = .05, SE = 0.03, p = .05, 95% CI [0.00, 0.12] for indirect contact; IE = .08, SE = 0.03, p = .005, 95% CI [-0.16, 0.00] for intergroup anxiety). We also found parental cross-ethnic friendship quality to be indirectly associated with CEFSE beliefs through prior contact (IE = .09, SE = 0.03, p = .001, 95% CI [0.03, 0.11]) and indirect contact (IE = .05, SE = 0.02, p = .02, 95% CI [0.01, 0.07]). See Tables 3 and 4, as well as Figure 3 for all indirect and direct associations between variables.

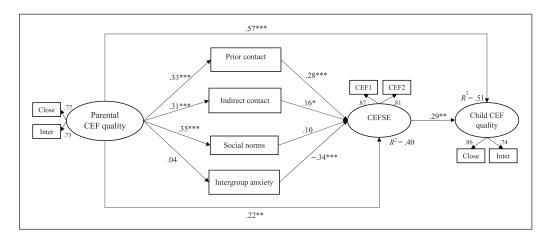
General Discussion

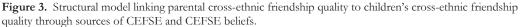
Contemporary research in intergroup contact literature demonstrates that positive contact is common, but often avoided due to various structural,

Indirect effects	IE	SE	Þ	95% CI Lower bound	95% CI Upper bound
Parent CEF \rightarrow Prior contact \rightarrow CEFSE	.09	0.03	.001	0.03	0.11
Parent CEF \rightarrow Indirect contact \rightarrow CEFSE	.05	0.02	.02	0.01	0.07
Parent CEF \rightarrow Social norms \rightarrow CEFSE	.04	0.02	.14	-0.02	0.06
Parent CEF \rightarrow Intergroup anxiety \rightarrow CEFSE	01	0.02	.61	-0.05	0.03
Parent CEF \rightarrow CEFSE \rightarrow Child CEF	.06	0.03	.02	-0.01	0.14
Prior contact \rightarrow CEFSE \rightarrow Child CEF	.08	0.03	.01	0.00	0.17
Indirect contact \rightarrow CEFSE \rightarrow Child CEF	.05	0.02	.05	0.00	0.12
Social norms \rightarrow CEFSE \rightarrow Child CEF	.03	0.02	.19	-0.01	0.10
Intergroup anxiety \rightarrow CEFSE \rightarrow Child CEF	10	0.03	.005	-0.16	0.00
Parent CEF \rightarrow Prior contact \rightarrow CEFSE \rightarrow Child CEF	.03	0.01	.02	0.00	0.06
Parent CEF \rightarrow Indirect contact \rightarrow CEFSE \rightarrow Child CEF	.01	0.01	.07	0.00	0.04
Parent CEF \rightarrow Social norms \rightarrow CEFSE \rightarrow Child CEF	.01	0.01	.20	-0.01	0.04
Parent CEF \rightarrow Intergroup anxiety \rightarrow CEFSE \rightarrow Child CEF	.00	0.01	.62	-0.02	0.01

Table 4. Indirect associations between main study variables in Study 2.

Note. Standardized indirect effect estimates are provided. CEF = cross-ethnic friendship(s); CEFSE = cross-ethnic friendship self-efficacy.





Note. Final model fit: $\chi^2(26) = 38.65$, p = .05, $\chi^2/df = 1.49$, CFI = 0.98, RMSEA = .04, SRMR = .03. Direct effects between sources of CEFSE and child cross-ethnic friendships, as well as effects of control variables are not displayed, for simplicity. Standardized coefficients are presented. Among control variables, gender was associated with child cross-ethnic friendships ($\beta = .17$, p = .01), and group status was associated with intergroup anxiety ($\beta = -.36$, p < .001). R² values for sources of CEFSE: .11 for previous contact, .10 for indirect contact, .19 for social persuasion, .15 for intergroup anxiety. CEF = cross-ethnic friendship.

*p < .05. **p < .01. ***p < .001.

situational, and personality factors that inhibit intentions and willingness to engage in volitional contact (Paolini et al., 2018). We argued that one potential construct behind contact formation is CEFSE, the sense of confidence in one's capacity to form and maintain a successful cross-ethnic friendship. Incorporating theoretical research from Bandura's self-efficacy theory (Bandura, 1986) and previous studies in intergroup contact theory, we suggested that prior contact (enactive experiences), indirect contact (vicarious experiences), social norms (social persuasion), and intergroup anxiety (physiological states) would predict children's CEFSE beliefs, which would in turn predict their actual cross-ethnic friendship quality (Studies 1 and 2). Using a diverse sample of children, we further examined the role of parental cross-ethnic friendship quality in equipping children with CEFSE sources and beliefs that would be related to children's cross-ethnic friendships (Study 2).

Both studies showed that CEFSE was a consistent predictor of children's current cross-ethnic friendship quality. While previous research has commonly focused on contact self-efficacy as an outcome variable of current contact experiences, and defined contact self-efficacy as the willingness to engage in future contact (Mazziotta et al., 2011; Stathi et al., 2011), we examined selfefficacy in the context of Bandura's self-efficacy theory and the confidence in contact model (Turner & Cameron, 2016), and thereby described self-efficacy as someone's beliefs and confidence in their capacity to perform a specific task. Hence, unlike in previous studies which focused on interest in or willingness to contact novel outgroup members (e.g., Stathi et al., 2011; Tropp et al., 2014), the study of CEFSE highlights the motivational basis of cross-ethnic friendships and intergroup contact.

Moreover, in both studies CEFSE has been found to be predicted by prior and indirect contact experiences, as well as lower intergroup anxiety. Hence, children with successful prior contact in earlier stages of life and indirect contact experiences, as well as the ones who displayed lower intergroup anxiety levels held more positive beliefs about their capacity to form high-quality crossethnic friendships and were more likely to report higher quality cross-ethnic friendships. While previous research has often examined predictors of actual cross-group friendships individually, the sources of CEFSE beliefs demonstrate an integrative framework involving all different aspects of self-efficacy beliefs. In line with previous research in contact literature (Page-Gould et al., 2008), we found intergroup anxiety to be particularly strongly related to CEFSE beliefs and thereby to cross-ethnic friendship quality in both studies, suggesting that intergroup anxiety may be an important barrier behind contact formation (e.g., Paolini et al., 2018; Turner & Cameron, 2016).

On the other hand, in both studies, social norms (represented by both teachers' and parents' social persuasion in Study 1, and by parents' social persuasion in Study 2) did not significantly predict (although significantly correlated with) greater CEFSE beliefs. Previous research in selfefficacy literature suggested that social persuasion may be limited in its ability to provide sustainable self-efficacy beliefs (Usher & Pajares, 2008), indicating social norms in the form of social persuasion to be a relatively weaker predictor of CEFSE compared to more direct and behavioral sources of CEFSE. In Study 2, we also found that social norms, the overt persuasion of parents to build cross-ethnic friendships, were related to lower quality cross-ethnic friendships among children. This may be a sign of a reactional pattern against social persuasion of parents particularly during this transitional developmental period where early adolescents start to turn away from parents to their peers for advice and support (e.g., Fuligni & Eccles, 1993).

Study 2 additionally explored the associations between children's perceptions of their parents' cross-ethnic friendship quality and their own cross-ethnic friendships through CEFSE beliefs. We found that perceived parental cross-ethnic friendship quality was directly and indirectly associated with children's cross-ethnic friendship quality through sources of CEFSE and CEFSE beliefs. While previous research has shown parental contact experiences to predict child contact experiences through various intergroup processes, such as positive outgroup attitudes and perspective-taking (Bagci & Gungor, 2019; Smith et al., 2015), there is limited knowledge about which other mechanisms, mainly motivational ones, mediate the associations between parental and child contact. We found that perceived parental cross-ethnic friendship quality was particularly related to CEFSE through contact experiences for children, including both enactive and vicarious experiences. Past research suggested that one way whereby parents can socialize their children in terms of intergroup experiences is not only about giving them direct messages, but also by providing them structural opportunities to experience intergroup contact such as choosing multicultural schools and ethnically diverse social settings for children (e.g., Smith et al., 2015). Hence, as the authority figure, parents who have high-quality cross-ethnic friends are more likely to support enactive and vicarious experiences, which in turn relate to the belief that one can successfully engage in cross-ethnic friendship behavior. Interestingly, we found parental cross-ethnic friendship quality to be unrelated to intergroup anxiety. Bagci and Gungor (2019) have previously demonstrated that positive parental contact experiences were related to children's positive contact through decreased intergroup anxiety. Nevertheless, that study included only majority Turkish participants who were recruited from an ethnically homogeneous intergroup setting and in super-diverse ethnic diversity settings such as in the current study, parental contact may be a relatively less critical factor in predicting intergroup anxiety, which is potentially shaped more by school experiences than by family experiences.

A number of limitations should be noted. While in Study 2 we included a larger sample size compared to Study 1, the minority group was very heterogeneous and we still did not have sufficient numbers of participants from main minority groups to make meaningful comparisons across groups. Furthermore, while two of the schools included the White majority group as the numerically dominant group, the third school was mainly composed of Asian children. This poses important complexities about which ethnic group to refer to as the majority or minority group, thereby limiting our conclusions about particular ethnic group differences. Future studies comparing the effectiveness of the CEFSE sources, beliefs, and cross-ethnic friendships should be conducted across various ethnic status groups. Although we do not expect White British and

minority-status ethnic group members to benefit from CEFSE beliefs differentially, various sources of CEFSE beliefs may be more critical for some ethnic groups than others. For example, intergroup anxiety may be a more fundamental predictor of CEFSE for White British participants, whereas social persuasion may be more critical among Asian British participants who are generally raised in more traditional families. Parental contact experiences may also differentially relate to children's contact across different ethnic groups; direct teaching about race among a White sample would be rare, so observing parents' cross-ethnic friendship behavior would provide an opportunity to transmit positive messages to children regarding diversity and race relations, as well as cross-ethnic friendships, possibly making perceived parental cross-ethnic friendship quality more critical for the formation of majority-status children's cross-ethnic friendships.

Methodologically, longitudinal studies should be conducted to present a clearer understanding of the relationships between the variables. While CEFSE has been conceptualized to promote cross-ethnic friendship quality, cross-ethnic friendships are also likely to encourage positive beliefs about forming a novel cross-group interaction. For example, previous research found cross-group friendships to be associated with the active avoidance of the outgroup through expectations of rejection (Barlow, Louis, & Hewstone, 2009). Therefore, it is also plausible that current friendship closeness leads to greater confidence and self-efficacy in future interactions, and people may generalize from their current friendships about whether or not they could form a successful intergroup interaction. This bidirectional relationship is elaborated on in Turner and Cameron's (2016) confidence in contact model, which predicts a feedback loop where cross-ethnic friendships feed back to enhance confidence in contact. Moreover, as Degner and Dalege (2013) note, we cannot rule out bidirectional socialization which suggests that children influence their parents' attitudes, just as parents influence their children. For instance, Windzio (2015) examined children's and parents' social networks in the context of

immigrant children's birthday parties. The author explored how attendance at these parties affected both child and parental social networks. While parents' own friendship networks influenced the parties that their children were invited to, parties which provided additional opportunities for parents to interact with outgroup members had a larger impact on diversifying parents' own social networks.

One further limitation of the current research is the reliance on children's reports of their parents' friendships. In their meta-analysis, Degner and Dalege (2013) found that parents' and children's attitudes were interrelated regardless of the source of information on the parents' attitudes, but the strength of the association between parent and child attitudes was higher when children's reports of parents' attitudes were measured, as opposed to measuring parents' attitudes directly. The authors noted that this may be driven by children simply not knowing their parents' attitudes, or assuming their parents hold the same attitudes as themselves. The current research relies on children's reports of their parents' friendships, and so the association between their own and their parents' friendships may be inflated. However, we think that children's observations of their parents' friendships are likely to be accurate representations of parental cross-ethnic friendships, since the measures in the current study are based on relationships that could be observed at behavioral level, rather than internal attitudes. Future research should nonetheless use more elaborate intergroup contact measures that are reported by both children and parents. Finally, our measures of CEFSE and sources of CEFSE, which in general produced an acceptable fit of data but relatively low reliability scores, should be improved in further studies by using a larger number of items, in particular for the sources of CEFSE measure which included one or two items for each source.

In summary, applying Bandura's self-efficacy theory to intergroup contact research, the current study examined the construct of CEFSE beliefs among children. Study 1 showed that all sources of CEFSE, except social norms, predicted more positive beliefs about forming highquality cross-ethnic friendships, which in turn related to greater quality cross-ethnic friendships. Study 2 confirmed and extended Study 1 by further incorporating parental cross-ethnic friendship quality as a predictor of sources of CEFSE and thereby CEFSE beliefs, and indicated perceived parental cross-ethnic friendship quality to be directly and indirectly related to children's cross-ethnic friendship quality. Future studies should examine in more detail various mechanisms that explain the formation of highquality cross-ethnic friendships in childhood.

Author's note

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Supplemental material

Supplemental material for this article is available online.

Notes

- The initial CFA showed a poorer fit of the model structure, thereby, based on the modification index and residuals, error terms of the following items (which are theoretically related) were correlated: CEFSE1–CEFSE2, CEFSE2–CEFSE3.
- 2. An initial test of the structural model with sources of CEFSE variables represented as latent variables demonstrated a poorer fit, $\chi^2(152) = 216.42$, p < .001, CFI = 0.91, RMSEA = .07, SRMR = .06.

- 3. Two residual correlations between CEFSE5 and CEFSE1 as well as between CEFSE7 and CEFSE9 (which are theoretically related) were added to increase the fit of the model.
- 4. Some items were removed from the scale to fit the assumptions of Study 2. We excluded one item from the Extended Contact Scale because we already had parental cross-ethnic friendships as the main independent variable ("My parents have a lot of friends from other ethnic groups") and one item from the Social Persuasion Scale ("Our teachers in primary school would encourage us to be friends with people from other ethnic groups"), as parental contact is less likely to influence teachers' social norms.
- 5. We included this control variable by grouping White British participants as the ethnic majoritystatus group and the rest of the sample as the ethnic minority-status group. The ethnic minoritystatus group included great heterogeneity, including White European, Asian, Black, and mixed ethnic group children whose intergroup relationship experiences are unique. Moreover, while two of the schools included White British students as the numerical majority group, the third school included the Asian group as the numerically dominant group. Therefore, although we grouped all different minority groups together as a control variable, we refrained from pursuing further multiple group analyses across group status.

References

- Aboud, F., Mendelson, M., & Purdy, K. (2003). Crossrace peer relations and friendship quality. *International Journal of Behavioral Development*, 27, 165–173. doi:10.1080/01650250244000164
- Ajzen, I. (2002). Perceived behavioral control, selfefficacy, locus of control, and the theory of planned behavior. *Journal of Applied Social Psychol*ogy, 32, 665–683. doi:10.1111/j.1559-1816.2002. tb00236.x
- Allport, G. W. (1954). The nature of prejudice. Reading, MA: Addison-Wesley.
- Anderson, S. L., & Betz, N. E. (2001). Sources of social self-efficacy expectations: Their measurement and relation to career development. *Journal* of Vocational Behavior, 58, 98–117. doi:10.1006/ jvbe.2000.1753
- Bagci, S. C. (2018). Does everyone benefit equally from self-efficacy beliefs? The moderating

role of perceived social support on motivation. *The Journal of Early Adolescence*, *38*, 204–219. doi:10.1177/0272431616665213

- Bagci, S. C., & Gungor, H. (2019). Associations between perceived positive and negative parental contact and adolescents' intergroup contact experiences. *International Journal of Intercultural Relations*, 69, 76–86. doi:10.1016/j.ijintrel.2019.01.002
- Bagci, S. C., Kumashiro, M., Rutland, A., Smith, P. K., & Blumberg, H. (2017). Cross-ethnic friendships, psychological well-being, and academic outcomes: Study of South Asian and White children in the UK. *European Journal of Developmental Psychology*, 14, 190–205. doi:10.1080/17405629.20 16.1185008
- Bagci, S. C., Kumashiro, M., Smith, P. K., Blumberg, H., & Rutland, A. (2014). Cross-ethnic friendships: Are they really rare? Evidence from secondary schools around London. *International Journal of Intercultural Relations*, 41, 125–137. doi:10.1016/j. ijintrel.2014.04.001
- Bagci, S. C., Rutland, A., Kumashiro, M., Smith, P. K., & Blumberg, H. (2014). Are minority status children's cross-ethnic friendships beneficial in a multiethnic context? *British Journal of Developmental Psychology*, 32, 107–115. doi:10.1111/bjdp.12028
- Bagozzi, R. P., & Heatherton, T. F. (1994). A general approach to representing multifaceted personality constructs: Application to self-esteem. *Structural Equation Modelling: A Multidisciplinary Journal*, 1, 35–67. doi:10.1080/10705519409539961
- Bandura, A. (1977). Self-efficacy: Toward a unifying theory of behavioral change. *Psychology Review*, 84, 191–215. doi:10.1037/0033-295X.84.2.191
- Bandura, A. (1986). Social foundations of thought and action: A social cognitive theory. Englewood Cliffs, NJ: Prentice Hall.
- Bandura, A. (1997). Self-efficacy: The exercise of control. New York, NY: Freeman.
- Bandura, A. (2006). Guide to the construction of selfefficacy scales. In F. Pajares & T. Urdan (Eds.), *Self-efficacy beliefs of adolescents* (pp. 307–337). Greenwich, CT: Information Age.
- Bandura, A. (2012). On the functional properties of perceived self-efficacy revisited. *Journal of Management*, 38, 9–44. doi:10.1177/0149206311410606
- Bandura, A., Barbaranelli, C., Caprara, G. V., & Pastorelli, C. (2001). Self-efficacy beliefs as shapers of children's aspirations and career trajectories. *Child Development*, 72, 187–206. doi:10.1111/1467-8624.00273

- Barlow, F. K., Louis, W. R., & Hewstone, M. (2009). Rejected! Cognitions of rejection and intergroup anxiety as mediators of the impact of cross-group friendships on prejudice. British Journal of Social Psychology, 48, 389–405. doi:10.1348/014466608X387089
- Branch, C. W., & Newcombe, N. (1986). Racial attitude development among young Black children as a function of parental attitudes: A longitudinal and cross-sectional study. *Child Development*, 57, 712–721. doi:10.2307/1130348
- Cameron, L., & Rutland, A. (2006). Extended contact through story reading in school: Reducing children's prejudice toward the disabled. *Journal* of Social Issues, 62, 469–488. doi:10.1111/j.1540– 4560.2006.00469.x
- Cameron, L., & Turner, R. N. (2017). Intergroup contact among children. In L. Vezzali & S. Stathi (Eds.), Intergroup contact theory: Recent developments and future directions (pp. 151–168). Abingdon, UK: Routledge.
- Castelli, L., Zogmaister, C., & Tomelleri, S. (2009). The transmission of racial attitudes within the family. *Developmental Psychology*, 45, 586–591. doi:10.1037/ a0014619
- Davies, K., Tropp, L. R., Aron, A., Pettigrew, T. F., & Wright, S. C. (2011). Cross-group friendships and intergroup attitudes: A meta-analytic review. *Personality and Social Psychology Review*, 15, 332–351. doi:10.1177/1088868311411103
- Degner, J., & Dalege, J. (2013). The apple does not fall far from the tree, or does it? A meta-analysis of parent–child similarity in intergroup attitudes. *Psychological Bulletin*, 139, 1270–1304. doi:10.1037/ a0031436
- Duriez, B., & Soenens, B. (2009). The intergenerational transmission of racism: The role of right-wing authoritarianism and social dominance orientation. *Journal of Research in Personality*, 43, 906–909. doi:10.1016/j.jrp.2009.05.014
- Eccles, J. S., & Midgley, C. (1989). Stage–environment fit: Developmentally appropriate classrooms for early adolescents. In R. Ames & C. Ames (Eds.), *Research on motivation in education* (Vol. 3, pp. 139–181). New York, NY: Academic Press.
- Edmonds, C., & Killen, M. (2009). Do adolescents' perceptions of parental racial attitudes relate to their intergroup contact and cross-race relationships? *Group Processes & Intergroup Relations*, 12, 5–21. doi:10.1177/1368430208098773

- Emerson, M. O., Kimbro, R. T., & Yancey, G. (2002). Contact theory extended: The effects of prior racial contact on current social ties. *Social Science Quarterly*, *83*, 745–761. doi:10.1111/1540-6237.00112
- Fan, C., & Mak, A. S. (1998). Measuring social selfefficacy in a culturally diverse student population. *Social Behavior and Personality: An International Journal, 26*, 131–144. doi:10.2224/sbp.1998.26.2.131
- Fan, W., & Williams, C. M. (2010). The effects of parental involvement on students' academic selfefficacy, engagement and intrinsic motivation. *Educational Psychology*, 30, 53–74. doi:10.1080/014434 10903353302
- Feddes, A. R., Noack, P., & Rutland, A. (2009). Direct and extended friendship effects on minority and majority children's interethnic attitudes: A longitudinal study. *Child Development*, 80, 377–390. doi:10.1111/j.1467-8624.2009.01266.x
- Fuligni, A. J., & Eccles, J. S. (1993). Perceived parent– child relationships and early adolescents' orientation toward peers. *Developmental Psychology*, 29, 622–632. doi:10.1037/0012-1649.29.4.622
- Hu, L. T., & Bentler, P. M. (1999). Cut-off criteria for fit indexes in covariance structure analysis: Conventional criteria versus new alternatives. *Structural Equation Modeling: A Multidisciplinary Journal*, 6, 1–55. doi:10.1080/10705519909540118
- Kao, G., & Joyner, K. (2004). Do race and ethnicity matter among friends? Activities among interracial, interethnic, and intraethnic adolescent friends. *The Sociological Quarterly*, 45, 557–573. doi:10.1111/j.1533-8525.2004.tb02303.x
- Katz, P. A. (2003). Racists or tolerant multiculturalists? How do they begin? *American Psychologist*, 58, 897– 909. doi:10.1037/0003-066X.58.11.897b
- Lease, A. M., & Blake, J. J. (2005). A comparison of majority-race children with and without a minority-race friend. *Social Development*, 14, 20–41. doi:10.1111/j.1467-9507.2005.00289.x
- Lent, R. W., Lopez, F. G., & Bieschke, K. J. (1991). Mathematics self-efficacy: Sources and relation to sciencebased career choice. *Journal of Counseling Psychology*, 38, 424–430. doi:10.1037/0022-0167.38.4.424
- Mak, A. S., & Tran, C. (2001). Big Five personality and cultural relocation factors in Vietnamese Australian students' intercultural social self-efficacy. *International Journal of Intercultural Relations*, 25, 181–201. doi:10.1016/S0147-1767(00)00050-X
- Matsushima, R., & Shiomi, K. (2002). Self-disclosure and friendship in junior high school students.

Social Behavior and Personality: An International Journal, 30, 515–525. doi:10.2224/sbp.2002.30.5.515

- Mazziotta, A., Mummendey, A., & Wright, S. C. (2011). Vicarious intergroup contact effects: Applying social-cognitive theory to intergroup contact research. *Group Processes & Intergroup Relations*, 14, 255–274. doi:10.1177/1368430210390533
- Meeusen, C. (2014). The parent-child similarity in cross-group friendship and anti-immigrant prejudice: A study among 15-year old adolescents and both their parents in Belgium. *Journal* of Research in Personality, 50, 46–53. doi:10.1016/j. jrp.2014.03.001
- Meeusen, C., & Dhont, K. (2015). Parent–child similarity in common and specific components of prejudice: The role of ideological attitudes and political discussion. *European Journal of Personality*, 29, 585–598. doi:10.1002/per.2011
- Miklikowska, M. (2015). Like parent, like child? Development of prejudice and tolerance towards immigrants. *British Journal of Psychology*, 107, 95–116. doi:10.1111/bjop.12124
- Munniksma, A., & Juvonen, J. (2012). Cross-ethnic friendships and sense of social-emotional safety in a multiethnic middle school: An exploratory study. *Merrill-Palmer Quarterly*, 58, 489–506. doi:10.1353/mpq.2012.0023
- Muthén, L. K., & Muthén, B. O. (1998–2017). Mplus user's guide: Statistical analysis with latent variables (8th ed.). Los Angeles, CA: Author.
- Page-Gould, E., Mendoza-Denton, R., & Tropp, L. R. (2008). With a little help from my crossgroup friend: Reducing anxiety in intergroup contexts through cross-group friendship. *Journal* of *Personality and Social Psychology*, 95, 1080–1094. doi:10.1037/0022-3514.95.5.1080
- Pajares, F. (2003). Self-efficacy beliefs, motivation, and achievement in writing: A review of the literature. *Reading and Writing Quarterly*, 19, 139–158. doi:10.1080/10573560308222
- Paolini, S., Harwood, H., Hewstone, M., & Neumann, D. L. (2018). Seeking and avoiding intergroup contact: Future frontiers of research on building social integration. *Social and Personality Psychology Compass.* Advance online publication. doi:10.1111/spc3.12422
- Pica-Smith, C. (2011). Children's perceptions of interethnic and interracial friendships in a multiethnic school context. *Journal of Research in Childhood Education*, 25, 119–132. doi:10.1080/0256854 3.2011.555495

- Schofield, J. W., Hausmann, L., Ye, F., & Woods, R. L. (2010). Intergroup friendships on campus: Predicting close and casual friendships between White and African American first-year college students. Group Processes & Intergroup Relations, 13, 585–602. doi:10.1177/1368430210362437
- Shelton, J. N., Trail, T. E., West, T. V., & Bergsieker, H. B. (2010). From strangers to friends: The interpersonal process model of intimacy in developing interracial friendships. *Journal* of Social and Personal Relationships, 27, 71–90. doi:10.1177/0265407509346422
- Sinclair, S., Dunn, E., & Lowery, B. (2005). The relationship between parental racial attitudes and children's implicit prejudice. *Journal of Experimental Social Psychology*, 41, 283–289. doi:10.1016/j. jesp.2004.06.003
- Smith, S., Maas, I., & Tubergen, F. (2015). Parental influence on friendships between native and immigrant adolescents. *Journal of Research on Adolescence*, 25, 580–591. doi:10.1111/jora.12149
- Stathi, S., Crisp, R. J., & Hogg, M. A. (2011). Imagining intergroup contact enables member-to-group generalization. *Group Dynamics: Theory, Research,* and Practice, 15, 275–284. doi:10.1037/a0023752
- Sturgis, P., Brunton-Smith, I., Kuha, J., & Jackson, J. (2014). Ethnic diversity, segregation and the social cohesion of neighbourhoods in London. *Ethnic and Racial Studies*, 37, 1286–1309. doi:10.1 080/01419870.2013.831932
- Titzmann, P. F., Brenick, A., & Silbereisen, R. K. (2015). Friendships fighting prejudice: A longitudinal perspective on adolescents' cross-group friendships with immigrants. *Journal of Youth and Adolescence*, 44, 1318–1331. doi:10.1007/s10964-015-0256-6
- Tropp, L. R., O'Brien, T. C., & Migacheva, K. (2014). How peer norms of inclusion and exclusion predict children's interest in cross-ethnic friendships. *Journal* of Social Issues, 70, 151–166. doi:10.1111/josi.12052
- Turner, R. N., & Cameron, L. (2016). Confidence in contact: A new perspective on promoting crossgroup friendship among children and adolescents. *Social Issues and Policy Review*, 10, 212–246. doi:10.1111/sipr.12023
- Turner, R. N., Hewstone, M., & Voci, A. (2007). Reducing explicit and implicit prejudice via direct and extended contact: The mediating role of self-disclosure and intergroup anxiety. *Journal* of Personality and Social Psychology, 93, 369–388. doi:10.1037/0022-3514.93.3.369

- Usher, E. L., & Pajares, F. (2008). Self-efficacy for self-regulated learning: A validation study. *Educational and Psychological Measurement*, 68, 443–463. doi:10.1177/0013164407308475
- Vezzali, L., Stathi, S., Giovannini, D., Capozza, D., & Visintin, E. P. (2015). "And the best essay is. . .": Extended contact and cross-group friendships at school. *British Journal of Social Psychology*, 54, 601– 615. doi:10.1111/bjso.12110
- Vezzali, L., Turner, R. N., Capozza, D., & Trifiletti, E. (2018). Does intergroup contact predict personality? A longitudinal study on the bidirectional relationship between intergroup contact and personality traits. *European Journal of Social Psychology*, 48, 159–173. doi:10.1002/ejsp.2313
- Windzio, M. (2015). Immigrant children and their parents: Is there an intergenerational interdependence of integration into social networks? *Social Networks*, 40, 197–206. doi:10.1016/j.socnet.2014.11.002

- Wölfer, R., Schmid, K., Hewstone, M., & Zalk, M. (2016). Developmental dynamics of intergroup contact and intergroup attitudes: Long-term effects in adolescence and early adulthood. *Child Development*, 87, 1466–1478. doi:10.1111/cdev.12598
- Wright, S. C., Aron, A., McLaughlin-Volpe, T., & Ropp, S. A. (1997). The extended contact effect: Knowledge of cross-group friendships and prejudice. *Journal of Personality and Social Psychology*, 73, 73–90. doi:10.1037/0022-3514.73.1.73
- Zimmerman, B. J., Bandura, A., & Martinez-Pons, M. (1992). Self-motivation for academic attainment: The role of self-efficacy beliefs and personal goal setting. *American Educational Research Journal*, 29, 663–676. doi:10.3102/00028312029003663
- Zosuls, K. M., Field, R. D., Martin, C. L., Andrews, N. C., & England, D. E. (2014). Gender-based relationship efficacy: Children's self-perceptions in intergroup contexts. *Child Development*, 85, 1663–1676. doi:10.1111/cdev.12209