

YouTube Kids: The Effect of YouTube on Children's Racial Learning

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Abstract

One way in which children learn about group dynamics within their racial world is from patterns in their daily environments. The current study seeks to understand the degree to which YouTube, a popular form of social media, exposes children to negatively valenced racial patterns, and potentially affects their beliefs. Dyads of parents and 8-13 year-old children ($N = 18$) describe daily YouTube usage, and the effects of children's YouTube usage are assessed. In the present sample, there is no relationship between children's YouTube usage, racial patterns they may observe, and negative racial beliefs.

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Is YouTube making kids more racist? Despite sounding like the cultural fear-mongering often associated with screen time and development, such a question refers to real concerns that psychological research has yet to address: what are children really learning from YouTube, particularly with regard to race?

Literature Review

Much of the literature on how children learn about their racial world places great emphasis on the transmission of information that is explicitly about race: how parents talk about members of other racial groups, how and whether schools portray the histories of marginalized groups, how peers may communicate stereotypes, etc. (Hughes & Watford, 2022). In this view, ethnic-racial socialization, or the ways in which agents transmit messages about ethnicity and race to children, occurs through direct verbal instruction. However, in addition to more explicit transmissions of racial knowledge, children are simultaneously exposed to a barrage of more implicit environmental inputs—who they live near, for instance, or who they see on screens—which may also affect these conceptions (Hughes et al., 2023).

Not only does ethnic-racial socialization occur with explicit instruction, but so too do children attend to the racial patterns and organizations embedded into their environments and social settings (Hughes & Watford, 2022). Such environmental racial patterns—who tends to hold positions of authority, who tends to receive discipline in school, etc.—constitute racial regularities, or “persistent patterns in the relative social experiences of, or roles occupied by, two or more racial (or racialized groups) within a setting” (Hughes & Watford, 2022). In response to such patterns, children engage in racial learning, or the meaning-making of external messaging so as to form their own conceptions of how race works in their social world (Hughes & Watford, 2022). As such, when exposed to consistent, repeated regularities, children draw inferences as to why such patterns exist and persist; they may accept that such patterns as necessary features of ‘the way things are,’ or may even create explanations for such patterns (e.g. “White families live in big houses because they work hard” in contrast to “Black families live in big houses because they

got lucky”) (Hughes et al., 2023; Rizzo et al., 2022). Further, this learning may be yet more implicit: when tested in the same environment, young children show levels of implicit biases, unconscious mental associations based on race or other social categories, similar to those of adults (Payne et al., 2017). This suggests that features of specific environments such as racial regularities not only affect explicitly articulated beliefs but implicit understandings of one’s social environment. As such, to fully understand how children’s conceptions of race form, we must examine the ways in which environments containing ontologically inaccurate racial regularities affect their racial learning.

One such environmental stream of input regarding race and racial regularities is social media. Children today have unparalleled access to social media platforms: YouTube, TikTok, Twitch, and more. On these sites, the sheer amount of content posted often outpaces enforcement of content guidelines, making it difficult to know exactly what children are seeing or learning from the content they are consuming. Unlike media such as television or movies, social media platforms are populated by both media corporations and individual content creators. YouTube is a social media platform that is particularly popular amongst children; many children use YouTube regularly: one third of parents of children aged 11 and younger surveyed by Pew Research Center indicated that they let their children use YouTube regularly (Smith et al., 2018). Further, amongst tweens and teens, video logs and gaming videos—types of content usually generated by influencers, not corporations—are the two most popular genres watched (Rollins et al., 2022).

Despite massive popularity, research on the effects of YouTube and other forms of social media on children’s race-related attitudes and behaviors has not been methodologically systematic (Ward & Bridgewater, 2023). Though YouTube has become a regular part of children’s lives, it is still unknown how YouTube may be affecting children’s conceptions of racial categories and associated beliefs about race. However, some research has emerged describing racial regularities on YouTube: in a review conducted by Common Sense Media, in YouTube videos watched by children under the age of 8, prominent characters of color were far more likely to engage in violent behaviors or inappropriate language, and were less likely to appear alongside educational

content ([Rollins et al., 2022](#)). In another content analysis of the most popular YouTube videos at the time, more than three-fifths of videos in the sample included racial stereotypes, most of which reinforced and perpetuated them ([Guo & Harlow, 2014](#)). Taken together, we see that YouTube contains racial regularities in the form of stereotypes, which children may be accommodating into their beliefs, but there has not yet been any research confirming this connection.

While there is a body of research aimed at understanding how certain aspects of children's environments contribute to the formation of racial attitudes, there is not as much focus on how YouTube, or other social media platforms, function as sites of racial socialization and learning via racial regularities. Similarly, though there have been some content analyses regarding the racial character of YouTube videos, such studies have yet to be done in conjunction with psychological measures of racial beliefs and attitudes. Due to this lack of research into how social media ecologies contribute to kids' racial beliefs, I thus ask the question: are children for whom stereotypical social media is a part of their daily environment more likely to develop stereotyping or prejudicial racial beliefs and attitudes?

Present Study

This study will examine the relationship between YouTube usage and children's development of racial attitudes, so as to understand whether and the degree to which YouTube may be a site of ethnic-racial socialization where children develop prejudices against those of other races.

I hypothesize that time spent on YouTube and children's observation of racial regularities should covary; as children spend more time on YouTube, they may observe more negatively valenced racial regularities including people of color ([Guo & Harlow, 2014](#); [Rollins et al., 2022](#)). Thus, I hypothesize that if children spend more time on YouTube, they will display greater racial stereotyping and prejudice against outgroups. While some children may not be consciously aware of on-screen racial regularities, these dynamics may still affect their racial attitudes ([Hughes & Watford, 2022](#)). As such, I hypothesize that the relationship between children's time spent on YouTube and their exhibited racial stereotyping and prejudice will be mediated by their

observations of negative racial regularities.

One additional factor that may moderate the relationship between time spent on YouTube and racial attitudes is whether a child's favorite YouTuber is of a race other than their own, via the parasocial contact hypothesis. This theory suggests that when individuals have limited real life interpersonal contact with minority groups, the formation of parasocial (one-sided) relationships with outgroup media figures may reduce stereotyping and prejudice ([Schiappa et al., 2005](#); [Wong et al., 2022](#)). Much of the parasocial contact hypothesis literature explores the prejudice reduction made possible by parasocial relationships with television characters, yet the growing popularity of social media presents another medium through which parasocial relationships may be formed. If positive parasocial contact hypothesis effects may be observed when individuals form relationships with characters in other media, so too should these effects be observed when individuals have parasocial relationships with outgroup influencers ([Banas et al., 2020](#)). Thus, I pose my third hypothesis: the relationship between the amount of time that children spend on YouTube and their racial stereotyping and prejudice will be moderated by whether they have a parasocial relationship with a favorite YouTuber of a race other than their own. Specifically, if children have a favorite YouTuber of a race other than their own and they have a parasocial relationship with this YouTuber, they will display less racial stereotyping and prejudice.

Methods

Participants and Procedures

This study includes dyads of parents and children between the ages of 8 and 13 ¹. Though children may express negative racial attitudes prior to this point in development, during early adolescence, children develop the ability to recognize and reflect on the racial patterns and dynamics present in their environments ([Hughes & Watford, 2022](#)). As such, this age range allows me to observe how the observation racial regularities present on YouTube may affect children's

¹ Pilot data has demonstrated that Qualtrics Panels has not, thus far, been as stringent in participant age verification. As such, data used presently is from a broader age range than will be included in the final sample, after stricter age validation has been included.

stereotyping and prejudicial attitudes, and how such a phenomenon develops. Participants were recruited through Qualtrics Panels, allowing me to obtain a representative sample of parents and children; other studies have used Qualtrics Panels with similar methods and populations (Byrd & Ahn, 2020).

Pilot data has been collected in March of 2025 from families recruited via Qualtrics Panels ($N = 18$). Participating families receive two Qualtrics surveys to be completed asynchronously, and receive compensation (as determined by Qualtrics Panels) after both surveys have been completed. First, parents complete a demographics and YouTube usage survey, then children complete their own survey.

Measures

In the parent survey, participants answer questions related to parent and child demographics (child age, race/ethnicity, parent income and level of education, etc), as well as questions regarding their child's YouTube usage (for instance, time spent on YouTube, as reported by their child's device screen time).

In the child survey, children answer questions related to their YouTube usage, such as time spent on YouTube and their favorite genre. Next, they will either answer more questions pertaining to YouTube content, or their general racial attitudes; either block of questions will appear randomly, so as to reduce the influence of question order. In the racial attitudes section, children will answer questions regarding outgroup prejudices, as rated on a Likert scale. They will also complete one friend choice item, as a simple exploratory measure of racial preference. In the YouTube content section, children will be asked to think of their favorite YouTuber as they answer questions related to whether they have a parasocial relationship with that YouTuber, as well as their observations of racial regularities on YouTube.

The particular measures used in the child survey are as follows:

1. Beliefs about groups (adapted from Halperin et al. (2012))
2. Perceived homophily in behavior and appearance (adapted from McCroskey et al. (1975))
3. Parasocial interaction with a YouTuber (adapted from Sung et al. (2023))

4. Racial regularities (created based on Rollins et al. (2022))
5. Friend choice (adapted from Amemiya and Bian (2024))

All measures used in adult studies have been specifically adapted for child readability.

Table 1 reports the reliability of all questionnaires used, within the present sample.

Table 1

Reliability (assessed through Cronbach's Alpha) of questionnaires used, within sample

Measure	Alpha	Evaluation
Group Malleability	0.77	Acceptable
Homophily (Appearance)	0.95	Excellent
Homophily (Appearance)	0.96	Excellent
Parasociality	0.93	Great
Racial Regularities	0.73	Acceptable

Beliefs about groups, particularly in terms of group malleability, were chosen as the primary outcome measure to assess racial attitudes. Such questions, adapted from Halperin et al. (2012), address whether children have fixed or malleable views regarding outgroups (e.g. when prompted to think about groups with different skin colors than their own, children are asked the extent to which they agree with the statement, “These groups of people can’t really change the way they act”). Higher scores in this domain demonstrate more fixed evaluations of outgroup members, suggesting an underlying racial essentialism, or a belief in the intrinsic nature of racial difference (Waxman, 2021).

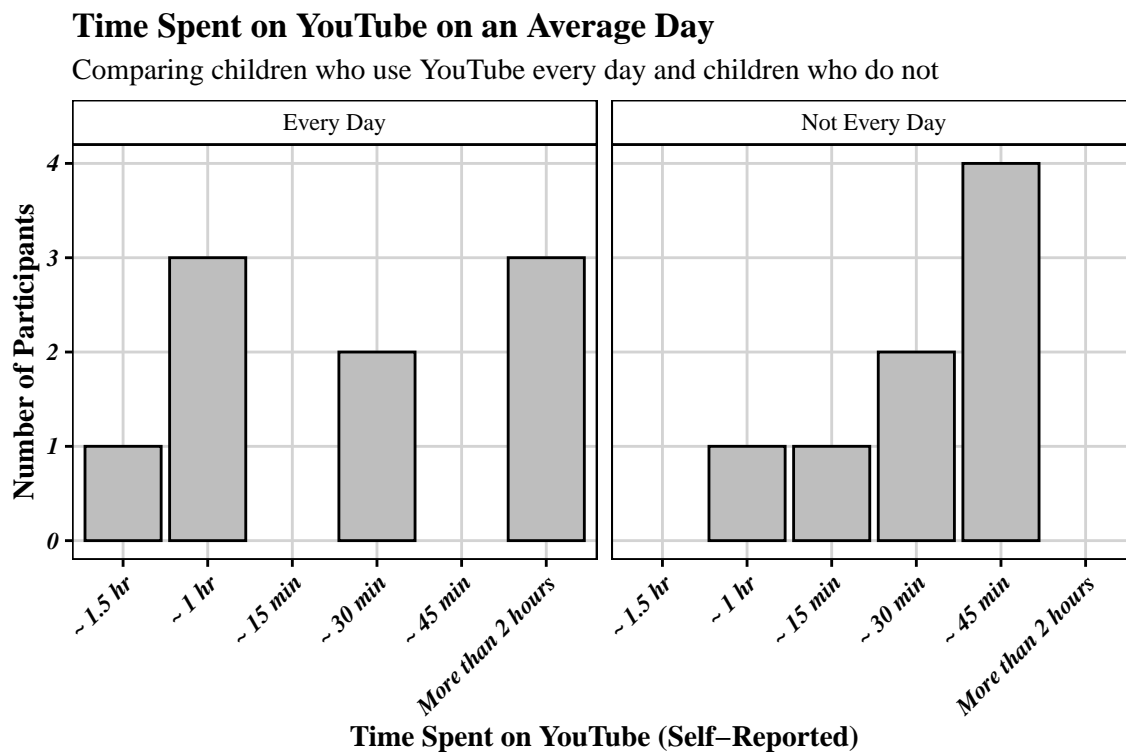
Composite scores have been created for each measure. All analyses have been completed in RStudio (R Core Team, 2023), primarily within the tidyverse and psych packages (Wickham et al. (2019); William Revelle (2024)).

Results

Looking first to the distributions of time spent on YouTube among participants, just as many children use YouTube every day as ($N = 9$) as those who do not ($N = 9$). And, as shown in Figure 1, children who use YouTube every day appear to use YouTube for more time on an average day than children who do not. On average, parents report that children spend about 70 minutes, or 1 hour, on YouTube on an average day. Some children, as parents report, watch as much as 6 hours of YouTube, while others watch only 0. Children's self-report YouTube usage reflects a similar pattern, as shown in Table 1: the majority of participants report watching YouTube for 30 minutes to 1 hour each day.

Figure 1

Distribution of participants' YouTube watch time



Preliminary one-way analysis of variance does not indicate that greater amounts of time spent on YouTube (self-report) is associated with a higher racial regularities score ($F(5, 11) = 1.42, p = 0.292$). Similarly, thus far, one-way analysis of variance does not indicate that there is

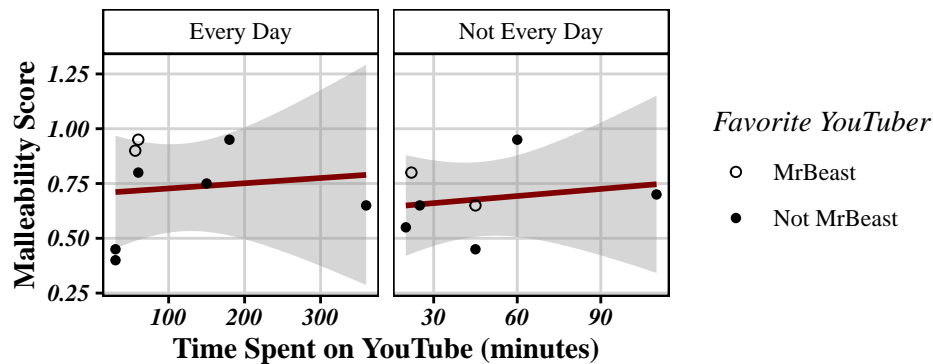
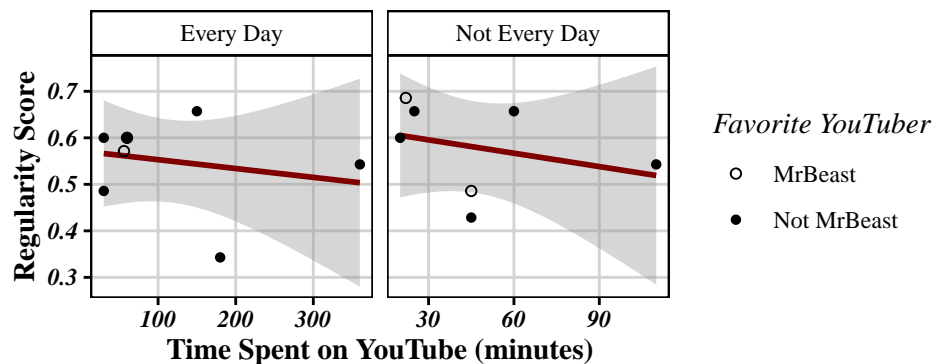
Table 1

Proportions of watch times in children who watch YouTube every day vs those who do not

	Every Day	Not Every Day	Sum
About 1 and 1/2 hours a day	0.06	0.00	0.06
About 1 hour a day	0.18	0.06	0.24
About 15 minutes a day	0.00	0.06	0.06
About 30 minutes a day	0.12	0.12	0.24
About 45 minutes a day	0.00	0.24	0.24
More than 2 hours	0.18	0.00	0.18
Sum	0.53	0.47	1.00

any association between ratings of frequency with which children encounter those of other racial groups and racial regularities scores, ($F(4, 13) = 0.79, p = 0.552$). Further, one-way analysis of variance does not indicate a significant relationship between the primary racial attitudes outcome measure, group malleability, and frequency of seeing racial outgroups on YouTube, ($F(4, 13) = 0.84, p = 0.526$).

Regressing malleability scores against parent reports of time spent on YouTube, no significant relationship is observed ($F(1, 16) = 1.15, p = .299$). This relationship remains unchanged and similarly insignificant when daily use is added as a predictor ($F(2, 15) = 0.68, p = .519$). Such relationships, as well as that of regularity score and YouTube usage, may be observed in Figure 2 and Figure 3. Based on pilot sample alone, there is not enough data to conduct analyses with regard to the effect of YouTuber on racial attitudes, but the modal favorite YouTuber reported has thus far been character ($N = 5$). Preliminary relationships between favorite YouTuber (this YouTuber in particular) as well as malleability and regularity scores may be found in Figure 2 and Figure 3 respectively.

Figure 2*Correlations Between Time Spent On YouTube and Group Malleability Beliefs***Figure 3***Correlations Between Time Spent On YouTube and Racial Regularities*

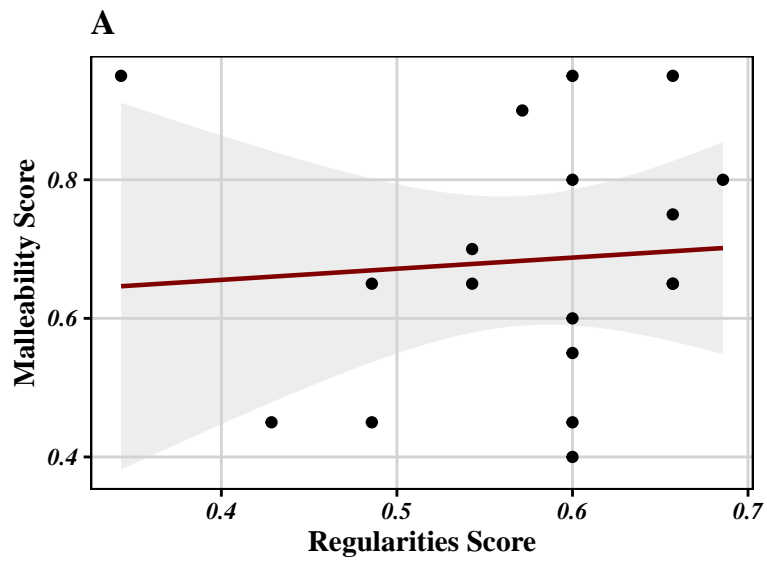
Just as there is not yet an observed relationship between time spent on YouTube and racial regularities, so too is there a lack of relationship between regularities scores and malleability scores in the present sample ($F(1, 16) = 0.1, p = .756$). The preliminary relationship between racial regularity and malleability scores within the full sample may be found in Figure 4. Preliminary effects of daily YouTube usage and participant race may be found in Figure 5.

Discussion

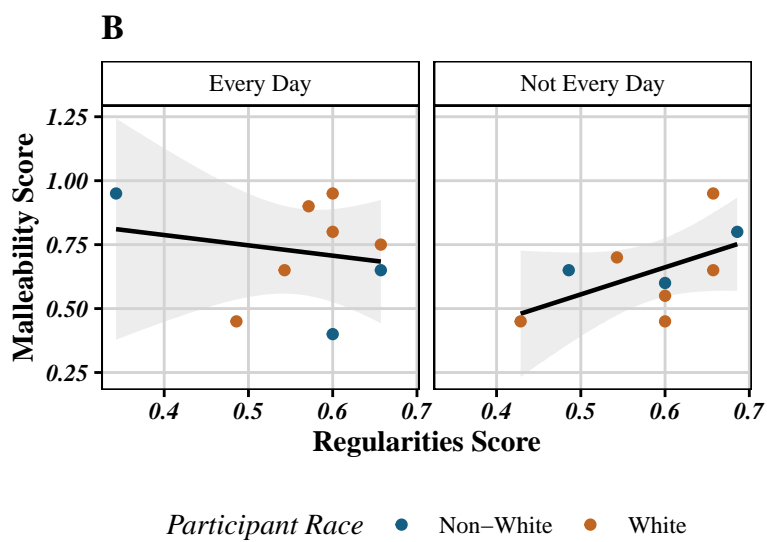
The present study examines the relationship between children's YouTube usage and potential effects on racial attitudes. No significant effects of YouTube usage on group beliefs have been observed thus far; we thus fail to reject the null hypothesis that there is no difference in racial beliefs between children who spend a lot of time on YouTube and those who do not. Similarly, as

Figure 4

Correlation Between Racial Regularities Score and Malleability Score

**Figure 5**

Correlation Between Racial Regularities Score and Malleability Score



there is no significant relationship between time spent on YouTube and children's observation of racial regularities, nor between racial regularities and group malleability beliefs, there is no evidence thus far to suggest that observation of racial regularities affects outgroup prejudices as a result of YouTube usage.

References

- Amemiya, J., & Bian, L. (2024). Why are there no girls? Increasing children's recognition of structural causes of the gender gap in STEM. *Cognition*, 245, 105740.
<https://doi.org/10.1016/j.cognition.2024.105740>
- Banas, J. A., Bessarabova, E., & Massey, Z. B. (2020). Meta-Analysis on Mediated Contact and Prejudice. *Human Communication Research*, 46(2-3), 120–160.
<https://doi.org/10.1093/hcr/hqaa004>
- Byrd, C. M., & Ahn, L. H. (2020). Profiles of ethnic-racial socialization from family, school, neighborhood, and the Internet: Relations to adolescent outcomes. *Journal of Community Psychology*, 48(6), 1942–1963. <https://doi.org/10.1002/jcop.22393>
- Guo, L., & Harlow, S. (2014). User-Generated Racism: An Analysis of Stereotypes of African Americans, Latinos, and Asians in YouTube Videos. *Howard Journal of Communications*, 25(3), 281–302. <https://doi.org/10.1080/10646175.2014.925413>
- Halperin, E., Crisp, R. J., Husnu, S., Trzesniewski, K. H., Dweck, C. S., & Gross, J. J. (2012). Promoting intergroup contact by changing beliefs: Group malleability, intergroup anxiety, and contact motivation. *Emotion*, 12(6), 1192–1195. <https://doi.org/10.1037/a0028620>
- Hughes, D., Cox, B., & Das, S. (2023). Growing Up, Learning Race: An Integration of Research on Cognitive Mechanisms and Socialization in Context. *Annual Review of Developmental Psychology*, 5(1), 137–167. <https://doi.org/10.1146/annurev-devpsych-120321-015718>
- Hughes, D., & Watford, J. A. (2022). Racial regularities: Setting-level dynamics as a source of ethnic-racial socialization. *American Journal of Community Psychology*, 70(1-2), 3–17.
<https://doi.org/10.1002/ajcp.12565>
- McCroskey, J. C., Richmond, V. P., & Daly, J. A. (1975). THE DEVELOPMENT OF A MEASURE OF PERCEIVED HOMOPHILY IN INTERPERSONAL COMMUNICATION. *Human Communication Research*, 1(4), 323–332.
<https://doi.org/10.1111/j.1468-2958.1975.tb00281.x>
- Payne, B. K., Vuletich, H. A., & Lundberg, K. B. (2017). The Bias of Crowds: How Implicit Bias

- Bridges Personal and Systemic Prejudice. *Psychological Inquiry*, 28(4), 233–248.
<https://doi.org/10.1080/1047840X.2017.1335568>
- R Core Team. (2023). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. <https://www.R-project.org/>
- Rizzo, M. T., Green, E. R., Dunham, Y., Bruneau, E., & Rhodes, M. (2022). Beliefs about social norms and racial inequalities predict variation in the early development of racial bias. *Developmental Science*, 25(2), e13170. <https://doi.org/10.1111/desc.13170>
- Rollins, D., Bridgewater, E., Munzer, T., Weeks, H. M., Schaller, A., Yancich, M., Gipson, W., Drogos, K., Robb, M. B., & Radesky, J. S. (2022). *Who Is the “You” in YouTube? Missed Opportunities in Race and Representation in Children’s YouTube Videos*. Common Sense Media.
- Schiappa, E., Gregg, P. B., & Hewes, D. E. (2005). The Parasocial Contact Hypothesis. *Communication Monographs*, 72(1), 92–115. <https://doi.org/10.1080/0363775052000342544>
- Smith, A., Toor, S., & van Kessel, P. (2018). Many Turn to YouTube for Children’s Content, News, How-To Lessons. *Pew Research Center*.
- Sung, Y. H., Yoo, C. Y., & Han, J. (Karen). (2023). She’s my favorite YouTuber, so I watch ads on her channel: The interplay of parasocial interaction and YouTube ad knowledge on voluntary ad-watching. *International Journal of Advertising*, 1–23.
<https://doi.org/10.1080/02650487.2023.2295726>
- Ward, L. M., & Bridgewater, E. (2023). Media use and the development of racial attitudes among U.S. youth. *Child Development Perspectives*, 17(2), 83–89.
<https://doi.org/10.1111/cdep.12480>
- Waxman, S. R. (2021). Racial Awareness and Bias Begin Early: Developmental Entry Points, Challenges, and a Call to Action. *Perspectives on Psychological Science*, 16(5), 893–902.
<https://doi.org/10.1177/17456916211026968>
- Wickham, H., Averick, M., Bryan, J., Chang, W., McGowan, L. D., François, R., Golemund, G., Hayes, A., Henry, L., Hester, J., Kuhn, M., Pedersen, T. L., Miller, E., Bache, S. M., Müller,

- K., Ooms, J., Robinson, D., Seidel, D. P., Spinu, V., ... Yutani, H. (2019). Welcome to the tidyverse. *Journal of Open Source Software*, 4(43), 1686. <https://doi.org/10.21105/joss.01686>
- William Revelle. (2024). *Psych: Procedures for psychological, psychometric, and personality research*. Northwestern University. <https://CRAN.R-project.org/package=psych>
- Wong, N. C. H., Massey, Z. B., Barbarti, J. L., Bessarabova, E., & Banas, J. A. (2022). Theorizing Prejudice Reduction via Mediated Intergroup Contact: Extending the Intergroup Contact Theory to Media Contexts. *Journal of Media Psychology*, 34(2), 89–100. <https://doi.org/10.1027/1864-1105/a000338>