INTRODUCTION

In the digital age, many types of social, educational, and economic interactions are conducted through digital media. Digital media provides the storage and transmission of information in various formats through websites, social networking services, blogging, email, instant messaging, chat rooms, and cell phones. Formats of digital media include text, audio, image, and video data. Although digital media enhance many positive social, educational, and economic interactions by providing ubiquitous access to communication, by increasing the speed of communication, by reaching a broad audience, and by allowing anonymous individuals to interact; digital media also worsen negative social, educational, and economic interactions. Cyberbullying is one such social interaction which...
is negatively impacting society. Cyberbullying is the abuse of digital media to cause psychological and social harm to a victim(s) (Li, 2007; Kowalski, Limber, & Agatston, 2008; Hinduja & Patchin, 2009; Tokunaga, 2010). Cyberbullies leverage the capabilities of digital media to increase the psychological and social harm caused to victims of cyberbullying.

Cyberbullying is a growing concern with significant psychological and social problems for individuals involved in cyberbullying. For example, cyberbullying has been associated with several recent suicides (Ruedy, 2008; Lewin, 2010; Hinduja & Patchin, 2010). Another significant problem is aggression or violent retaliation by victims of cyberbullying. For example, victims of cyberbullying were eight times more likely to carry a weapon to school (Ybarra, Diener-west, & Leaf, 2007). There are also a variety of other significant psychological and social problems for cyberbullies and victims of cyberbullying which include emotional distress, depression, aggression, poor parent-child relationships, substance abuse, rule-breaking problems, academic difficulties, and delinquency (e.g., detentions, suspensions, or skipping school) (Ybarra & Mitchell, 2004; Ybarra, Mitchell, Wolak, & Finkelhor, 2006; Ybarra et al., 2007; J. Wang, Nansel, & Iannotti, 2011). As digital media use continues to grow, other significant psychological and social problems may also be observed such as eating disorders, chronic illness, running away from home, excessive psychosomatic symptoms, neuroticism, antisocial behavior, criminal conviction, or violent death (Ybarra & Mitchell, 2004; Patchin & Hinduja, 2006; Ybarra et al., 2007; K. Moore, 2011; Englander, 2012).

Face-to-face bullying is a traditional form of bullying in which bullies attack victims through physical, verbal, or social attacks (Olweus, 1991). Unlike cyberbullying, bullies in face-to-face bullying use non-digital media communication to bully (e.g., face-to-face talking, body language, or physical interaction). The key characteristics of face-to-face bullying are (1) the attacks are intentional, (2) the victim of face-to-face bullying perceives damage as the result of the attacks, (3) the attacks occur repeatedly, and (4) the bully has power over a victim to prevent the victim from adequate defense from the attacks (Olweus, 1991). These key characteristics are important for defining cases where face-to-face bullying can lead to significant problems.

Cyberbullying and face-to-face bullying share many similarities but have several differences. One similarity is that both use verbal and social attacks to cause harm to the victim. Another similarity is that both use the same key characteristics (i.e., intentional attacks, perception of harm, repetitive occurrence, and power over the victim) to cause psychological or social harm to victims (Smith et al., 2008; Dooley, Pyzalski, & Cross, 2009). One primary difference is that the participants in cyberbullying socially interact through digital media which introduces different characteristics such as anonymity, rapid spreading of communication, and communication anywhere and anytime. Another difference is that cyberbullies can utilize digital media with new capabilities to create new types of power over a victim and to increase the damage to victims.

Models of cyberbullying and face-to-face bullying are useful for understanding the characteristics of cyberbullying. Since there are similarities between face-to-face bullying and cyberbullying, models from face-to-face bullying in some cases may apply to modeling cyberbullying. One model describes the roles of individuals in cyberbullying. In face-to-face bullying, roles of participants may be a bully, victim, assistant of the bully, defender of the victim, etc. Each of these roles has been associated with various psychological and social characteristics. Another model describes the types of attacks. In face-to-face bullying, there are models for how a bully achieves power over a victim using certain types of attacks such as verbal and social attacks. For example, power over a victim can be achieved by attacking victims who are vulnerable to harm or by forming a group to attack a victim.
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