



Addressing Bullying and Cyberbullying in the Digital Age: Insights from *Narrative Heroes*, an Online Counter-Narrative Serious Game

Elena Serritella – PhD Student – elena.serritella@unifi.it

ABSTRACT

Bullying and cyberbullying are major global concerns for adolescents (UNICEF, 2018; 2019). As forms of violence, they are rooted in cultural dynamics and shared social norms that shape group narratives and individual attitudes (Andrews, 2002; Salmivalli & Voeten, 2004).

Research indicates that Information and Communication Technologies (ICTs) and virtual environments are effective contexts for prevention

(Nocentini et al., 2015; Serritella et al., 2025).

The present doctoral research was structured around three major phases, all focused on the prevention of bullying and cyberbullying and on the use of emerging technologies.

The first study consisted of a **systematic review**, conducted according to PRISMA guidelines (Moher et al., 2009; Page et al., 2021), of the literature on technology-based interventions aimed at preventing bullying and cyberbullying among adolescents. The review identified both fully digital and hybrid interventions (combining online and face-to-face components), and highlighted a recent increase in the use of interactive tools such as **Serious Games**.

The second phase examined research and intervention paradigms related to attitude change in online contexts. Specifically, the second study explored the transformative potential of the **counter-narratives approach** (Bamberg & Andrews, 2004; Lueg & Lundholt, 2020) **in changing attitudes and behavioral intentions**, as the ultimate aim was to applying it to the prevention of bullying and cyberbullying.

Overall, the findings supported the potential of counter-narratives to influence attitudes and behavioral intentions,

The third phase focused on the **development and testing of a new online serious game for the universal prevention of bullying and cyberbullying, which employs the counter-narrative approach as a mechanism for change, *Narrative Heroes: Playing to Rewrite the Bullying and Cyberbullying Script***. Specifically, the present poster summarizes the results of the mixed-methods pilot study conducted to evaluate both the game user experience and the effectiveness of the intervention in modifying attitudes and behaviors related to bullying and cyberbullying.

REFERENCES

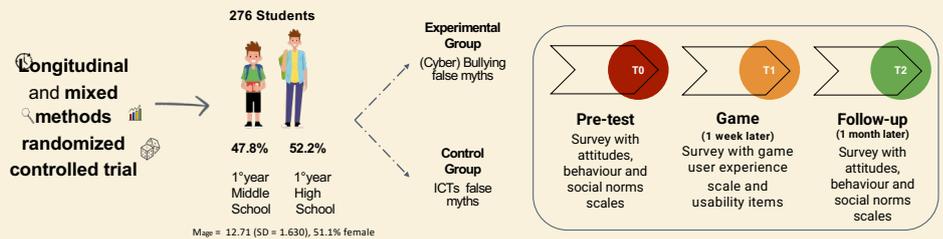
- Andrews, M. (2002). Introduction: Counter-narratives and the power to oppose. *Narrative Inquiry*, 12, 1–6.
- amberg, M., & Andrews, M. (Eds.). (2004). *Considering counter-narratives: Narrating, resisting, making sense* (Vol. 4). John Benjamins Publishing.
- Lueg, K., & Lundholt, M. W. (Eds.). (2020). *Routledge handbook of counter-narratives*. Routledge.
- Nocentini, A., Zambuto, V., & Menesini, E. (2015). Anti-bullying programs and Information and Communication Technologies (ICTs): A systematic review. *Aggression and Violent Behavior*, 23, 52–60.
- Salmivalli, C., & Voeten, M. (2004). Connections between attitudes, group norms, and behaviour in bullying situations. *International Journal of Behavioral Development*, 28(3), 246–258.
- Serritella, E., Guazzini, A., & Menesini, E. (2025). Countering bullying and cyberbullying using technology-based solutions: a systematic review. *Aggression and Violent Behavior*, Vol 85, 102102.
- UNICEF. (2018). *Half of world's teens experience peer violence in and around school*. Available at: <https://uni.cf/end-violence>
- UNICEF. (2019). *UNICEF poll: More than a third of young people in 30 countries report being a victim of online bullying*. Available at: <https://www.unicef.org/press-releases/unicef-poll-more-third-young-people-30-countries-report-being-victim-online-bullying>.

AIMS

- To evaluate the **user experience** of the *Narrative Heroes*, including perceived strengths and weaknesses.
- To **analyze the narratives** generated during gameplay discussions, identifying main and counter-narratives.
- To **assess the intervention's effects on attitudes, perceived social norms, and behaviors** related to bullying and cyberbullying (victimization, perpetration, defending, and passive bystanding).

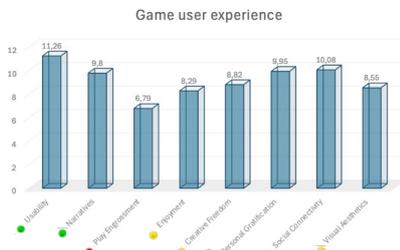
METHODS

In an online **forum-style interface**, the game allows **4 anonymous students** to interact around **three false myths** and **compete with other game teams**.



Descriptive analyses to assess the game experience; **Inferential analyses** (Linear Mixed Models T0–T2) to preliminarily test the intervention's effectiveness; **Qualitative analyses** (Inductive Thematic Analysis) to identify strengths and weaknesses and examine students' narratives.

RESULTS



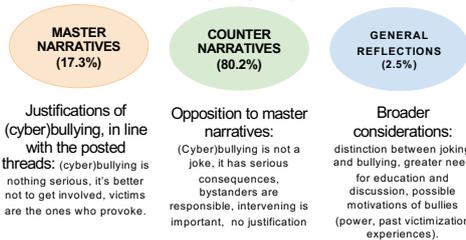
Main strengths:

- Interaction & socialization: **41.1%**
- Online setting (freedom, anonymity): **23.5%**
- Technical design & gamification elements: **9.3%**
- Overall positive experience (fun, creativity): **8.3%**
- Learning & reflection: **5.3%**
- Unsure: **12.4%**

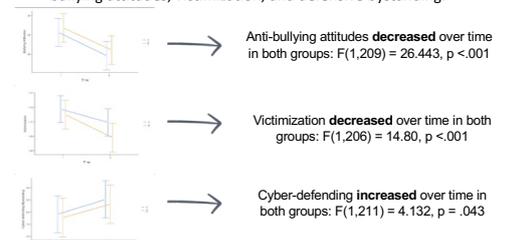
Main drawbacks:

- No negative aspects: **39.7%**
- Low participation / weak interaction: **22.8%**
- Game structure & content issues (too long, boring topics, few threads): **16.1%**
- Technical/login problems: **13.4%**
- Other minor issues (design, anonymity, comment rules): **<10%**

THEMES



The linear mixed models identified significant time effects only for anti-bullying attitudes, victimization, and defensive bystanding.



DISCUSSION and CONCLUSION

Narrative Heroes, though still preliminary, is a **feasible and engaging peer-based game** that promotes reflection and the co-construction of narratives and counter-narratives.

Qualitative evidence shows its potential to foster anti-bullying and anti-cyberbullying positions, but a **single brief exposure was not sufficient to produce measurable short-term group differences**.

Overall, *Narrative Heroes* offers a promising and scalable approach for leveraging counter-narratives to influence social norms.

Researching with conscience: Ethics as the foundation of knowledge
11-12 December 2025

