



# Tappetina: An Ecosystem of Art, Software, and Research

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**Abstract.** Tappetina is a fairy tale about mentoring, social innovation and technology. A set of projects have been developed around the Tappetina concept. These include science workshops for teenagers and the associated material created by the participants, illustrations, a website, a video, a story telling game. These projects are all connected in an ecosystem of art, science, and research expressions.

Participants are supposed to experience the works sequentially. Participants will be invited into the projects and encouraged to give feedback about how they perceive the experience. Sessions for playing the collaborative story telling game will be organized.

**Keywords:** Fairy tales · Serious games · Affective learning · Empathy  
Collaborative storytelling

## 1 Introduction

We offer an as an artistic experience around an ecosystem of works. This ecosystem is formed under the novel of “The Little Doormaid: Tappetina”, authored by Letizia Jaccheri. When asked why she wrote this story, Letizia answered that she hoped it could inspire girls who read it to be more interested in technology. The story would not only try to combat stereotypes of girls in tech, but also create an emotional impact that creates interest in and even romanticizes technological concepts. In essence, it aims to build enthusiasm in kids to tech, and is thus used in IT workshops for learning IT and programming. The ecosystem that came out of this is an initiative to encourage nuanced views of people. It is formed under to combat the stigma surround women entering male-associated fields such as technology.

The novel has inspired several actors who have cooperated to produce workshops, a video, and a story telling game. This work, when exhibited will offer an experience of at least 20 min if one chooses to participate to a gaming session.

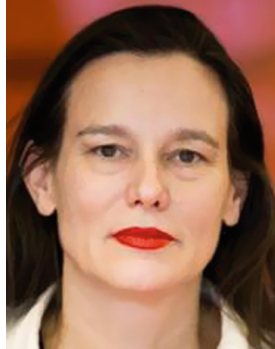
All the materials related to the project and events can be found at Tappetina’s webpage: [www.tappetina.com](http://www.tappetina.com).

The video is available at <https://tinyurl.com/ybksf6dm>. It has been developed by a group of students and aims to encourage teenagers to study computer science and

promote the contribution of women in computer science by advertising the female character “Tappetina”.

## 2 About the Authors

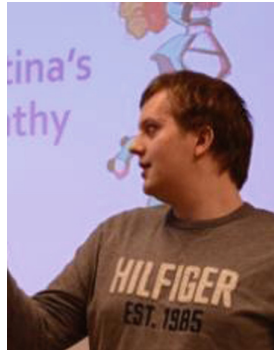
Letizia Jaccheri (Ph.D. from Politecnico di Torino, Italy) is Professor at the Department of Computer and Information Science. Jaccheri’s research is on: software engineering; entertainment computing; computational creativity; ICT-enabled social innovation.



Javier Gomez (Ph.D. from Universidad Autónoma de Madrid, Spain) is an ERCIM “Alain Bensoussan” fellow at Department of Computer and Information Science, NTNU. His research interests include human-computer interaction, assistive technologies and serious games.



Sindre B. Skaraas graduated from NTNU in 2018 with a Master thesis titled Tappetina’s Empathy A Study of Serious Games Facilitating Empathy with Storytelling.



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For the development of the game, the Unity Engine and editor was utilized, as developed by Unity Technologies.