



## Thesis Project Form

**Title (tentative):** Driving Simulator for the Adolescents with Attention-Deficit/Hyperactivity Disorder (ADRIS-ADHD)

**Thesis advisor(s):** Casadio Maura, Grazia Cravero, Serena Ricci, Matteo Moro, Camilla Pierella, Andrea Canessa  
(Dibris) Deborah Prieti, Lino Nobili (Gaslini)

**E-mail:** Maura.Casadio@unige.it

**Address:** Via Opera Pia 13, 16145 Genova (ITALY)

**Phone:** (+39) 010 33 52749

### Description

#### Motivation and application domain

Attention Deficit Hyperactivity Disorder (ADHD) is a neurodevelopmental condition that affects attention, impulse control, and executive functions. These impairments can significantly impact driving abilities, especially in adolescents. This thesis investigates how advanced technologies, such as driving simulators, can support the assessment and training of driving-related skills in individuals with ADHD

#### General objectives and main activities

This project aims to support adolescents with Attention Deficit Hyperactivity Disorder (ADHD) by testing an advanced, customizable driving simulator designed to assess and monitor cognitive, attentional, and behavioral symptoms over time and in response to treatment. Using objective, quantitative metrics, the tool also serves as a training platform to improve driving-related cognitive skills in a motivating and personalized way.

The student will be involved in the experimental sessions in different hospital facilities and will participate in the analysis of the results

#### Training Objectives (technical/analytical tools, experimental methodologies)

The student will learn

- experimental skills (human subjects, pediatric population in different hospital environment)
- behavioral data analysis
- statistical analysis tools

**Place(s) where the thesis work will be carried out:** DIBRIS; GASLINI; OSPEDALE STELLA MARIS

### Additional information

**Maximum number of students:** 1