Fellow	Host institution	PhD enrolment	Start date	Duration	Deliverables
DC5	CC	Yes	M13	36 months	D1.1, 1.2, 1.7, 1.9

Project Title and Work Package(s) to which it is related: AI-based monitoring platform from ECG waveform data acquired from off-the-shelf wearable devices (WP1-T1.5)

Objectives:
- To design and validate a continuous monitoring software platform suitable for SVA events in patients monitored with wearable devices.
- To develop a digital biomarker able to detect SVA events with accuracy comparable or better than state-of-the-art.
- To identify low-cost alternatives for the algorithm components and system integration.

Expected Results (project-KPI1.1, project-KPI1.3):
- Continuous monitoring to detect SVAs (KPI: one digital platform for SVA monitoring).
- AI-based digital biomarkers for SVA identification (KPI: one digital biomarker for prokect-KPI1.1)
- Assessment of computational impact to embed the algorithm into a wearable device

Planned secondment(s):
UNIMI M16 (3m) – Prof. Sassi: Experience in AI-based development of algorithms for SVA detection and attendance of mandatory PhD courses (UNIMI will award the PhD degree).
CCM M20 (2m) – Dr. Carbucicchio: Data collection using off the shelf wearable devices from SVA patients.
UTU M36 (3m) – Prof. Liljeberg: Complementary experience in algorithm optimization on embedded systems.