

Form to collect the information relevant for the PhD Quality Awards

PhD Student information

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|------------------|------------------------|
| Surname | Rusca |
| Name | Riccardo |
| PhD Cycle | XXXVI |
| Tutor | Claudio Ettore Casetti |

Participation in Research Projects (add as many rows as necessary, 1 row per project)

| Project name and short description | Competitive Selection | Project Scope | From | To | Role in project | Notes |
|---|-----------------------|---------------|------------|------------|-----------------|---|
| 5G EVE (Grant Agreement No. 815074) - 5G EVE is the European 5G validation platform for extensive trials. It is one of three 5G PPP infrastructure projects started on 1st July 2018. The goal is to implement and test advanced 5G infrastructures in Europe. The 5G-EVE concept is based on further developing and interconnecting existing European sites in Greece, Spain, France, and Italy to form a unique 5G end-to-end facility. | Yes | I | 01/11/2020 | 01/06/2021 | P | Work on IoT for Real Time Presence Sensing on the 5G EVE Infrastructure - Smart City UC |
| Hexa-X (Grant Agreement No. 101015956) - A flagship for 6G vision and intelligent fabric of technology enablers connecting human, physical, and digital worlds | Yes | I | 03/03/2021 | 30/06/2023 | P | Work on T7.2 "Ultra-flexible heterogeneous resource allocation" |
| CONNECT (Grant Agreement No. 101069688) - CONNECT's main objective is to build a trust management framework improving the quality and speed of | Yes | I | 01/03/2022 | 01/10/2022 | P | Work on Edge-assisted Federated Learning in Vehicular Networks |

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| decision making through the assessment of dynamic trust relationships utilising knowledge and processing capacity at the backend of the cloud to make faster and safer decisions. | | | | | | |
| TRIALSNET (Grant Agreement No. 101095871) - TrialsNet will deploy full large-scale trials to implement a heterogeneous and comprehensive set of innovative 6G applications based on various technologies such as Cobots, Metaverse, massive twinning, Internet of Senses, and others, covering three relevant domains of the urban ecosystems in Europe identified as i) Infrastructure, Transportation, Security & Safety, ii) eHealth & Emergency, and iii) Culture, Tourism & Entertainment. | Yes | I | 15/02/2023 | ongoing | P | Work on: <ul style="list-style-type: none"> • UC5: Control Room in Metaverse, • UC12: City Parks in Metaverse • UC13: Extended XR Museums Experience |

Teaching Activities in University Courses (add as many rows as necessary, 1 row per activity)

| Name of the course where the activity has been done | Course type | Course CFUs | Academic year | Role in course | number of hours of teaching <i>done</i> | CPD evaluation (if any) | Notes |
|---|-------------|-------------|---------------|----------------|---|-------------------------|-------------------|
| Reti di calcolatori - Prof. Marchetto Guido (AAA-GIN) - 5CDUOA | B | 8 | 2022/2023 | L+E | 9 | NA | CPD not available |
| Reti di calcolatori - Prof. Cena Gianluca (GIO-ZZZ) - 15CDUOA | B | 8 | 2022/2023 | L+E | 9 | NA | CPD not available |
| Reti di calcolatori - Prof. Rottondi Cristina Emma Margherita (AA-ZZ) - 15CDUPC | B | 8 | 2022/2023 | L+E | 9 | NA | CPD not available |

Research Dissemination Activities (add as many rows as necessary, 1 row per activity)

| Dissemination activity name | Date | Link | Description | Notes |
|---|------------|---|--|---|
| Research Radio - Innovation #4: Applicazioni, reti 5G e rischi della salute associata al 5G | 04/12/2020 | https://bit.ly/youtube-research-radio-innovation | Demo about the 5GEVE platform for crowd monitoring | |
| INW (Italian Networking Workshop) 2022 - Presentation of 15 minutes | 17/01/2022 | NA | Presentation with title: Federated Learning for IoT devices – Impact on network and server resources in Smart Cities context | Presentation available if needed |
| INW (Italian Networking Workshop) 2023 - 5 minutes pitch | 17/01/2023 | NA | Presentation with title: What WiFi Probe Requests can tell you | Presentation available if needed |
| DAUIN PhD POSTER DAY 2022 | 08/11/2022 | NA | Poster Day | Poster uploaded on cruscotto |
| DAUIN PitchD | 24/05/2023 | Still not online | PhD's pitch | Certificate of attendance uploaded on cruscotto |

Participation in Contracts with Industrial Companies (add as many rows as necessary, 1 row per contract)

| Contract name and short description | Company name | From | To | Role in contract | Notes |
|-------------------------------------|--------------|------|----|------------------|-------|
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Patents (add as many rows as necessary, 1 row per patent)

| Patent title | Patent Type | Last patent status | Date | Notes |
|--------------|-------------|--------------------|------|-------|
| | | | | |

Technology Transfer Activities (add as many rows as necessary, 1 row per activity)

| Technology Transfer Activity Description | From | To | Role in activity | Notes |
|--|------|----|------------------|-------|
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Awards (add as many rows as necessary, 1 row per award)

| Award Description | Date | Type | Notes |
|-------------------|------|------|-------|
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