



Marco Cavagnero  
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**Address**  
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Italy

# Marco Cavagnero

## Physicist

**About Me** I'm an experimental physicist who has obtained recently a Master degree in Physics at the University of Turin (Italy). My main field of interest is applied physics and data analysis. I specialized in the field of tribology during the stage conducted at ITT Motion Technologies.

## Education

### 2021 - Today, University of Turin

PhD in Chemistry and material science.

Project title: *Study of wear phenomena and surface analysis of third body in tribological contacts for braking pads.*

### 2018 - 2021, University of Turin

Master degree in Physics of innovative technologies.

Thesis title: *Surface and tribological characterization of the wear phenomena on friction materials for brake pads.*

Grade: 110L/110

### 2014 - 2018, University of Turin

Bachelor of science degree in Physics.

Thesis title: *Deposition of thin cobalt film for the catalytic growth of graphene.*

Grade: 89/110

## Experience

### Sep 2020 - Apr 2021, Research Trainee, ITT Motion Technologies (Barge, Italy)

Master thesis at the R&D department of the company.

Detailed achievements:

- Development of the Master thesis at the R&D department of the company:
  - Development of a measurement procedure for the wear phenomena of a brake system on a tribometer.
  - Surface analysis conducted with various instrument such as SEM, EDS, Optical Microscopy, Optical profilometer.
  - Development of a data analysis software (Python) to interface and elaborate instrument's data.

### Jan 2018 - Apr 2018, Research Trainee, INRiM (Turin, Italy)

BSc thesis at the Quantum Research division of the Istituto Nazionale di Ricerca Metrologica (INRiM) research institute as an intern.

Detailed achievements:

- Skills in vacuum technologies, deposition technologies (CVD, PVD) and basic characterization methods (SEM, EDS).

### Jul 2014 - Sep 2014, Estate agent, New Era (Portsmouth, UK)

Full time job as an estate agent during the Master dei Talenti project powered by CRT Foundation.

Detailed achievements:

- Working experience abroad.
- Improved fluency and knowledge of the English language.



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## Languages and language travels

**English** – FCE (First Certificate in English), B2 level

- Lived and worked at an estate agency in Portsmouth (UK) for three months.

**Mandarin** – Basic knowledge of spoken mandarin Chinese

- Attended the 4<sup>th</sup> year of high school at Jiamusi first High School in Jiamusi (China) during the AFS project for exchange students.

## Software Development Skills

### Programming

- Python
- Java
- C++

### Computer Software

- Mathematica
- Origin
- Latex

## Interests

### Professional

Data analysis, electronics, computer science

### Personal

Rock climbing, cycling, guitar, acting