

Joaquim Ortiz de Haro

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Education and awards

- 2019 - ongoing** **PhD student in Robotics and Optimization** at the Machine Learning and Robotics Lab, Uni Stuttgart and IMPRS-IS (Max Planck Research School) fellow. Supervisor: Marc Toussaint
- 2017 – 2019** **Master Degree: Advanced Mathematics and Mathematical Engineering in UPC²** Barcelona (MAMME), faculty FME³. Average qualification: 9.38 /10
- 2013-2017** **Bachelor Degree: Mechanical (industrial) Engineering in UPC²** Barcelona, faculty ETSEIB⁵. Top Class Honours. Ranked 2nd of 350 graduate students. Average qualification 8.84 / 10.
- 2016** **Exchange Student in ETH⁶ Zurich.** 6 Months doing Master Level Courses in the Mechanical Department (D-MAVT).
- 2013** Honour Mention in Spanish University Entrance Exam. Mark of 13.36 / 14. Scholarship to study first year in university.
- 2013** Gold Medal in XXVI Chemistry Spanish National Olympic. Event organized by the Chemistry Spanish Association (ANQUE) for pre-university Students.

Work Experience

- 2019** **Research Internship in the Artificial Intelligence and Machine Learning** research group at UPF⁷. Working on optimal transport in theoretical Machine Learning under the supervision of Gergely Neu.
- 2018 – 2019** **Research Internship in LAAS-CNRS¹.** Master Thesis: Simultaneous contact and trajectory optimization with an augmented Lagrangian algorithm. Humanoid Robotics Group. Supervisor: Nicolas Mansard.
- 2018** **Internship as SLAM and Perception Engineer** in Scaled Robotics. Geometric and semantic analysis of 3D Point Clouds in robotics start-up. 7 months.
- 2017** **Seat Autonomous Car Competition.** Member of the team of IRI⁴ for autonomous driving competition with a 1:10 model car
- 2017** **Research Assistant in IRI⁴** Bachelor Thesis: Parallel Tracking and Mapping Algorithms for an Event Based Camera. Supervisor: Joan Solà. Mobile Robotics Research Group.
- 2016** **Head of teacher assistants team.** Management of the team of 15 teachers and communication with the Direction of the university ETSEIB⁵ , UPC²

1: LAAS - CNRS: Research center on robotics, informatics and systems architecture, Toulouse, France

2 UPC: Polytechnic University of Catalonia, Barcelona ; 3 FME: Faculty Mathematics and Statistics from UPC, Barcelona ; 4 IRI: Robotics Research Centre, Barcelona ; 5 ETSEIB: Mechanical Engineering Faculty of UPC, Barcelona , 6 ETH: Swiss Federal Institute of Technology, Zurich ; 7 UPF: University Pompeu Fabra, Barcelona

2015 -2016 **Teacher Assistant** Mathematics for 1st year engineering students. In ETSEIB⁵, UPC² Courses with groups of 15-20 students on the blackboard.

2014 **Private Academy teacher**. University level engineering support lessons

Languages

Spanish and Catalan native

English C1.2 level. Advanced Certificate (CAE) from Cambridge University, B Mark, 2013. Bachelor Thesis and Master Thesis written in English. All master courses held in English. Two language summer courses in England.

French Official certificate DELF B2, year 2019. 6-month exchange in Toulouse.

German Official certificate B2.2 from Goethe Institute, February 2017. Engineering courses held in german in ETH⁶. Two language summer courses in Germany.

Programming

C++ Internship in robotics company (ROS, PCL, OPENCV , EIGEN) and robotics competition.

Python Master thesis in robotics and numerical optimization (SCIPY, NUMPY) and programming courses.

Matlab Bachelor Thesis (robotics and computer vision) , university courses.

Other Arduino, ANSYS , Solid Works , Minitab, Autodesk Fusion.

Personal Skills

Passionate about research, problem solving and learning. Experience in interdisciplinary and international teams. Compromise, honesty and hardwork. I love teaching and transmitting my knowledge.

Hobbies

Music Playing guitar. International certificate from the ROYAL Academy of Music: Music Theory 7th grade, year 2011, Guitar Instrument 7th grade, year 2013.

Sport Regular practice of sports. Cycling and football (played in the Football team of Masnou (my home town) from 6 to 19 years old). Windsurf and ski.

Reading and writing Prize in the literary writing contest of "el Maresme" (Regional Contest) in 2008 and 2009. Several school awards

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