

Joaquim Ortiz de Haro

Birth: 21.03.1995, Barcelona. Nationality: Spanish

Address: Huttenstrasse 5, 4OG HH, Berlin (10553), Germany.

Phone. +34 655 764 161 Mail: quimortiz21@gmail.com Personal Website: <https://quimortiz.github.io/>

Education and awards

- 2019 - ongoing** **PhD student in Robotics and Optimization** at the Learning and Intelligent Systems Group, TU-Berlin. 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 organised by the Chemistry Spanish Association (ANQUE) for pre-university Students.

Publications

Up to date publication list in <https://quimortiz.github.io/Research/> and [Google Scholar](#) (Profile: Joaquim Ortiz-Haro).

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

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

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
- 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 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++** Main tool for robotics research in PhD. Internship in robotics company (ROS, PCL, OPENCV, EIGEN) and robotics competition.
- Python** Deep Learning research in PhD (Pytorch). 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).
- Reading and writing** Prize in the literary writing contest of "el Maresme" (Regional Contest) in 2008 and 2009. Several school awards

Last updated: May 2022

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