

Domenico Abate

Technical experience

June 2020–Present

Researcher • Electric and Magnetic Fields Engineering Group • Consorzio RFX

Work Package Manager (2020-Present) of the in-vessel magnetic sensors of RFX-mod2 experiment

Staff mobility @[QST](#) (2020-2021, 3months virtual) - EUROfusion JT-60SA integrated commissioning - plasma equilibrium and control team

Staff mobility @[CREATE](#) (February 2020, 1week) - EUROfusion WPSA Task SA-O.A07-T001-D002 "Discharge simulator"

Staff mobility @[EPFL](#) (2020, 1week) - EUROfusion MST1-20-T13-TCV - TCV experimental campaign

June 2018–May 2020

Post Doc • Development of numerical tools for plasma equilibrium and control • University of Padova

Staff mobility @[CEA](#) (2019, 1week) - EUROfusion WPSA Task SA-O.A07-T001-D002 "Discharge simulator"

November 2017–May 2018

Research engineer • Modelling and control of plasma equilibria in RFX-mod experiment • Consorzio RFX

Staff mobility @[CCFE](#) (2016, 1week) - EUROfusion JET Task T15-04 - JET experimental campaign

Education

PhD, Joint European Doctorate in Fusion Science and Engineering

- University of Padua – Padua – Italy
- University of Naples Federico II – Naples – Italy
- Instituto Superior Técnico – Lisbon – Portugal

*Thesis: Modelling and control of RFX-mod tokamak equilibria
Supervisors: Prof. Fabio Villone, Dr. Ing. Giuseppe Marchiori*

MSc, Electrical Engineering • University of Padua – Padua – Italy

*Thesis: Multiobjective optimization techniques for the solution of free-boundary plasma equilibrium inverse problems
Supervisor: Prof. Paolo Bettini*

BSc, Energy Engineering • University of Padua – Padua – Italy

Skills

Matlab, Python, R, HTML, Julia, C/C++, MDSplus, LTSpice, Simulink, GraphPad, Microsoft Office

Languages

English (full professional proficiency),
Italian (Native)



Padova, Italy



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