

Mário Campos Cunha

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One page presentation:

Mario Cunha - MC, received a B.S., a M.Sc. and a Ph.D. degrees in Agrarian Sciences. In this area, he has been developing academic and research activities, as well as the administration and the technical consulting in several institutions and farms.

He is currently an Assistant Professor with the Dep. Geosciences, Environment and Spatial Planning at Sciences Faculty - University of Porto (FCUP) and senior researcher at Institute for Systems and Computer Engineering, Technology and Science ([INESC-TEC](#)), TEC4AGRO-FOOD, Centre for Robotics in Industry and Intelligent Systems ([CRIIS](#))* and collaborator of the Research Center for Geo-Space Science (CICGE).

His research interests include various topics in agronomy and agricultural engineering mostly focused on crop modelling (statistical or process based), crop yield forecast, remote sensing applications (climate change included), agricultural machinery and precision agriculture (field metabolomics included). He was the (co)author of more than 150 scientific publications ([Orcid](#)), including 82 scientific papers published in journals listed in JCR - WoS and/or SCOPUS (h-index 18).

He is/was the principal investigator or institutional leader of 11 research projects* and participates(d) in the team of 28 R&D projects with different funding sources such as FCT, H2020, P2020, Aga Khan, LIFE. He maintains consistent (>5 years) agronomic technology transfer programs with 7 international institutions/companies and 8 Portuguese institutions/companies. He has the record of intellectual property* of the Spray_image App© (Copyright transferred to international company), the MaChoice© and the ACFertS© programs. MC is evaluator of several projects (R&D) applicants for funding (National/International), scholarship evaluation programs, editor of two scientific journals and reviewer assiduous of more than 30 scientific journals listed in the base JCR – WoS. MC was a recipient of the Syngenta “Innovation in Agriculture award” in 2007.

In terms of academics MC supervises(d) 5 post-doctoral grants, 16 Ph.D and 30 M.Sc. students, teach courses in the 1st, 2nd and 3rd cycles in the areas of agronomy, food science and remote sensing, is Co-Director of the M.Sc. in Agronomy and the Director of the Ph.D. program in Agrarian Sciences*.

***More information**

[Academic activities.](#)

[Publications.](#)

Projects.

- [LamSat XXI](#), *Monitoring semi-natural meadows using remote sensing data.*
- [AgriSat XXI](#), *Remote Sensing based of crop biophysical parameters.*
- [PhenoSat](#) *Remote sensing and Crop phenology.*
- [VineSpectra](#) *Modelling grapevine Predawn leaf water potential based on hyperspectral data.*
- [DOPPLER](#) *DevelOpment of PaloP knowLEdge in Radioastronomy*
- [PRySM](#) *Precision Sprayer Ground Robot*
- [Smart Fertilizers](#) *Machinery for precision application of fertilizers.*
- [DIVA](#) - *Boosting innovative DIgitech Value chains for Agrofood, forestry and environment*
- [METBOTS](#) - *Metabolomic robots with self-learning artificial intelligence for precision agriculture*

Intellectual propriety rights:

- [SprayImage-Mobile©](#) – *SmartPhone application to improve crop spray parameters*
- [MAChoice©](#) – *Machinery costs and breakeven point.*
- [ACFertS©](#) - *image-based system to assess agricultural fertilizer spreader pattern*

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