

Dr Elsa Maria dos Santos Fernandes, Assistant Professor/Senior Researcher, Vice – Rector for Internationalisation of the University of Madeira

Gender: Female

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Education

2004. PhD in Education – Didactics of Mathematics Institution: University of Lisbon

Projects

She coordinates two projects of in service teacher training one in Mathematics and one in STEM areas - iTEC designing learning scenarios with digital technologies. Both projects are a partnership between UMa and the Regional Ministry of Education. She was also the coordinator of the project Droide II- Robots in Mathematics and Informatics Education supported by the FCT. She has several publications on national and international journal.

List of major research achievements

1. Fernandes, E. (2014) Viajando entre a Agencia Disciplinar e a Agencia Conceptual a bordo de urn robot para aprender fun.oes. *Revista Tecnologias na Educar.*;iio.6 (10). 1-13
2. Fernandes, E (2013) *Aprender Matenuitica e Informatica com Robots*. (Learning Mathematics and Informatics with Robots). Funchal. Universidade da Madeira. ISBN 978-989-20-4056-1 E- book. <http://www.cee.uma.pt/droide2/ebooklindex.html>
3. Fernandes, E. (2013) The Emergence of Agency in a Mathematics Class With Robots. *Proceedings of the 8th Conference on Europeen Research on Mathematics Education – CERME8* Antalya. Turkey.
4. Fernandes, E. (2012) – 'Robots can't be at two places at the same time': material agency in mathematics class. In Tso T.Y. (Ed.), *Proceedings of the 36th Conference of the International Group for the Psychology of Mathematics Education*, Vol. 2, pp 5. Pais, A., Fernandes, E. Matos, J.F. e Alves, A. S. (2012) Recovering the meaning of "critique" in critical mathematics education. *For the Learning of Mathematics*, 32 (1). 29-34

Educative work

1. PhD in Education - Didactics of Mathematics - PhD thesis - 'To Learn Maths to live and work in our world'
2. Since 2006 until now she is the coordinator of an In Service Teacher Training Program (a partnership between University of Madeira and the Regional Ministry of Education) for Mathematics teachers from grade 1 to 9.
3. Since 2014 until now she is a coordinator of an In Service Teacher Training Project-

iTEC – Designing Learning Scenarios with digital technologies for STEM teachers (a partnership between University of Madeira and the Regional Ministry of Education) (university of Madeira is an Associate Partner of iTEC)

4. Between 2010 and 2013 she was a coordinator of the Project Droide II - Robots in Mathematics and Informatics Education supported By Foundation of Science and Technology PTDC/CPE-CED/099850/2008

5. Every year she organizes workshops for young students in University of Madeira and/or in schools for Hands-on Mathematics with robots.

6. She was the plenary lecture in the 2015 International Conference Hands-On Science - with the conference Designing Learning Scenarios with Robots for Hands-on Mathematics and Informatics Learning.

Other

1. She teaches Didactics of Mathematics for Master Students in two Courses of University of Madeira - a) Mathematics teachers of basic and secondary school and b) Kindergarten and elementary school teachers.

2. She is member of the research group - Education, Technology and Society of Institute of Education -University of Lisbon

3. She has experience in the supervision of students (graduate, master, and PhD students).

4. She was member of several research projects with external funding (Portuguese Science Foundation)

5. She is actually member of the research project (supported by FCT) - Learning with technologies and design of future teacher training.

6. She is the coordinator of the itinerant exhibition 'Learning with Augmented Reality'.

7. She is member of several international and National Conferences organizing committees (Local and Scientific)

8. She is referee of some national and international journals and conferences.