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Her focus is on image processing and artificial intelligence applied to the reading and interpretation of ancient documents. Prior to this project, she worked at the Centre for Medical Image Computing, UCL, UK, where she investigated image processing and differential geometry techniques for the refinement of radiotherapy treatment of lung cancer.

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Ségolène's main research interests are image processing and differential geometry, with an emphasis on their multi-disciplinary applications (medicine, ancient documents, art). She is keen on contributing to the development of those mathematical methods and on weaving them into their possible domains of applications: obvious ones such as medicine or geophysics; as well as more apparently disconnected ones such as archaeological and historical studies or experimental music.