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Ansættelse

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Postdoctoral researcher in Applied algebraic geometry

My name is Carles Checa and I am a postdoctoral researcher in Applied Algebraic Geometry. My research revolves around properties of parametric polynomial systems of equations. These systems can be studied from the point of view of commutative algebra (regularity, minimal free resolutions), from the point of view of their geometry (real solutions, birationality...) as well as looking at the structure of the parameters (vertically parametrized polynomial systems).

The systems arise in various applications such as geometric modelling, molecular biology, computer vision and others. Therefore, we develop tools to understand the structure of families of polynomial systems that appear in applications.

I hold a PhD in Computer Science by the National and Kapodistrian University of Athens, Greece. My thesis defense happened in June 2024 and it was supervised by professor Ioannis Z. Emiris.