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Motivation statement

to the position senior research associate to work on the UKRI / EPSRC funded project
EP/W012251/1: Geometric Aspects of Complex Differential Equations (GACDE)

Dear Sir/Madam,

In my dissertation, I studied the growth of solutions of ODEs in the unit disc of the complex plane. Especially, I studied the sufficient conditions on coefficients ensuring that all solutions belong to a function space such as the Bloch space, BMOA or the Hardy space. After my dissertation, I have done research in univalent functions and Nevanlinna theory.

Due to my experience in complex differential equations and their geometric aspects, I feel confident to apply to the position.

I am also excited that your project also involves computational aspects using CAS. This is because, besides research, I have developed online course materials for mathematics courses. Especially JSXGraph JavaScript library allows to demonstrate analytical mappings in the web browser.