Title: A very biased overview of Macdonald polynomials

Abstract: Macdonald polynomials are symmetric functions depending on two
parameters that have attracted much interest in the last 30 years. I
will give an overview of Macdonald polynomials and their connections
with representation theory, geometry and physics. In doing so, I will
focus on my main personal obsession of understanding a positivity property
of Macdonald polynomials combinatorially. I will show in particular how
a new positivity conjecture for the non-symmetric Macdonald polynomials may
prove to be helpful.