

<p>Project description</p>	<p>The work of the research group in the field of Complex Networks and Data Science is focused on studying social dynamics by analyzing large datasets adopting an interdisciplinary approach. We build networks of interactions between humans and analyze their topology and the dynamics that take place in those systems from the perspective of Network Science, but we also adopt complementary tools from fields like statistical analysis or signal processing. This holistic approach allows us to gain a wider insight of the social systems under study.</p> <p>Our main topics of interest are the study of social polarization and segregation in complex networks, processes of information diffusion and the development and characterization of network metrics. We also work in semantic and sentiment analysis of text samples.</p> <p>The research line that the researcher would join is the study of processes of information diffusion in networks. The project consists in studying dynamical phenomena like long range temporal correlations that emerge from the interaction of users in a social network. In order to do that, we will collect and analyze empirical data from online social media. Then, mathematical models of information diffusion on networks will be developed in order to reproduce the empirical results.</p> <p>Expertise in data science, networks science and computational models will be highly appreciated.</p>
<p>Applications: documents to be submitted and deadlines</p>	<p>The applicant should submit (as soon as possible, and no later than April 30th 2023) the following documents:</p> <ul style="list-style-type: none"> - Letter of motivation - Curriculum vitae - Two reference letters - A brief summary of up to three of the most important articles or patents,