

## Evolutionary Preferential Attachment as a mechanism of social network growth.

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In this poster, we will show how evolutionary dynamics can be incorporated to a model of network growth in which individuals attach preferentially to those agents with highest evolutionary payoff. Our results indicate that scale-free networks with high clustering coefficient and degree-degree correlations are obtained using this novel approach and therefore reproducing those structural patterns found in social networks. Besides, the internal

organization of cooperation in these growing scale-free networks is seen to be different from that found in the static scale-free graphs.

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<sup>1</sup> <http://neptuno.unizar.es/jgg/>