

Bitcoin does not dominate the cryptocurrency market: study

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Credit: City University London

The first complete study of the entire cryptocurrency market between 2013 and 2017 has concluded that no cryptocurrency has shown a strong selective advantage over the other and that all cryptocurrencies face an uncertain fate.

Led by City, University of London and involving Dr Andrea Baronchelli,

Laura Alessandretti and Abeer ElBahrawy, the study—which is published in *Royal Society Open Science*—found that investors in cryptocurrencies appeared to allocate their money without considering factors such as the price of a cryptocurrency, or the properties of its underlying technology.

Neutral forces

By treating cryptocurrencies as ecological species, the authors demonstrate that a simple evolutionary model reproduces several key empirical findings such as the distribution of the cryptocurrencies [market](#) capitalisation or the turnover rate in the top rank positions.

The results, published in their paper, 'Evolutionary dynamics of the cryptocurrency market' suggest that the evolution of the cryptocurrency market has so far been ruled by "neutral" forces, where no cryptocurrency has shown any strong selective advantage over the other.

Lecturer in the Department of Mathematics, Dr Andrea Baronchelli, who co-ordinated the study, said:

"Bitcoin has been steadily losing ground to the advantage of the immediate runners-up and users do not seem to have paid much attention to technological advancements, so far. Rather, our findings are compatible with a scenario in which investors choose what cryptocurrencies to invest in, proportionate to those cryptocurrencies' market share, and nothing else. Bitcoin is not alone or invincible and we believe that our work represents a first step towards a better understanding and modelling of the [cryptocurrency](#) market."

More information: Evolutionary dynamics of the cryptocurrency market. *Royal Society Open Science*. 2017 4 170623; [DOI: 10.1098/rsos.170623](#)

Provided by City University London

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