Foundations for Blockchain Data Analytics
Workshop
October 6-7, 2019

SPEAKER TITLES/ABSTRACTS

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“A Theory of FinTech”

In this talk I will give a brief overview of current academic research on FinTech by using tools from mathematics and statistics. The topics to be discussed include: (1) Designing stable coins: how to design stable cryptocurrency by using option pricing theory. (2) P2P equity financing: how to design contracts suitable for a P2P equity financing platform with information asymmetry. (3) Data privacy preservation: how to do econometrics based on the encrypted data while still preserving privacy. (4) Crowd wisdom and prediction markets: how to use the collective opinion of a group to make predictions. All the above 4 topics are based on my recent papers.