

## **Towards Privacy for Social Networks: A Zero-Knowledge Based Definition of Privacy**

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I will talk about a zero-knowledge based definition of privacy. Our notion is strictly stronger than the notion of differential privacy and is particularly attractive when modeling privacy in social networks. I will demonstrate that it can be meaningfully achieved for tasks such as computing averages, fractions, histograms, and a variety of graph parameters and properties, such as average degree and distance to connectivity. I will also discuss possible extensions and thoughts for other directions.