

Current Topics in
Privacy Seminar

Speaker:
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Proof

September 24th, 2024



**How the Stock Market is
a Privacy Problem**

Abstract

In this talk, I'll discuss ongoing research to formulate aspects of US equities trading as a privacy problem. I'll also discuss why this problem matters, and how privacy tools can be adapted to (at least partially) address it. Along the way, I will highlight some open research problems in finance that are well-suited to be tackled by computer scientists. This talk spans joint works with Arthur Americo, Paul Cesaretti, Garrison Grogan, Adam McKoy, Robert Moss, Lisa Oakley, Marcel Ribeiro, Adele Shahi, and Mohammad Shokri.

Bio

Allison Bishop is the President and co-founder of Proof Trading, a startup agency broker-dealer for US equities. She is also a part-time visiting professor of computer science at City College, CUNY. She currently serves as Vice President of the International Association for Cryptologic Research (IACR), and is the creator of CFAIL, an annual conference for failed approaches and insightful losses in cryptology. She was formerly a quantitative researcher at IEX, and an assistant professor of computer science at Columbia University. She holds a PhD in computer science from the University of Texas at Austin, a masters in mathematics from the University of Cambridge, and a bachelors in mathematics from Princeton University. Her areas of expertise include trading algorithm design, market microstructure, cryptography, and distributed systems. She is also a stand-up comic, and was named the "fourth funniest person in finance" by NYC's Gotham Comedy Club.

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