



Alexander Lipton is Co-Founder and Chief Information Officer at Sila, Partner at Numeraire Financial, Visiting Professor and Dean's Fellow at the Hebrew University of Jerusalem, and Connection Science Fellow at MIT. He is a Board Member at Sila (Oregon) and an Advisory Board Member at numerous Fintech companies worldwide.

In 2016 he left Bank of America Merrill Lynch, where he served for ten years in various senior managerial roles, including Quantitative Solutions Executive and Co-Head of the Global Quantitative Group. Earlier, he held senior administrative positions at Citadel Investment Group, Credit Suisse, Deutsche Bank, and Bankers Trust. In parallel, Alex had several prestigious professorial appointments at École Polytechnique Fédérale de Lausanne, NYU, Oxford University, Imperial College, and the University of Illinois. Before switching to finance, Alex was a Full Professor of Mathematics at the University of Illinois and a Consultant at Los Alamos National Laboratory.

His current professional interests include FinTech, particularly applications of distributed ledger technology to payments and banking, digital currencies, including stablecoins and asset-backed cryptocurrencies, robust asset allocation, automated investing, balance sheet optimization, and industrial-strength risk management systems for large systemically important financial institutions.

His scientific interests are centered on cryptocurrencies, distributed ledgers, decentralized finance, quantitative development of asset allocation theory, modern monetary circuit theory, central clearing, and related topics.

In 2000 Alex was awarded the first-ever Quant of the Year Award by Risk Magazine; in 2021, he was awarded the Buy-Side Quant of the Year Award (jointly with Marcos Lopez de Prado).

Alex published eight books covering thermonuclear fusion, foreign exchange trading, equity and credit derivatives, and related topics. His forthcoming books “Blockchain and Distributed Ledgers: Mathematics, Technology, and Economics” (with A. Treccani), “Building the New Economy” (with A. Pentland and T. Hardjono), and “Generalized Integral Transforms in Mathematical Finance” (with A. Itkin and D. Muravey) will be published in August, September and October of 2021.

In addition, Alex has published more than a hundred papers on financial engineering and the future of money and hydrodynamics, magnetohydrodynamics, astrophysics, and chemical physics. He has published numerous opinion pieces on the most vital topics in quantitative finance, including the cover article “Breaking the Bank” for Scientific American (jointly with Sandy Pentland).

Alex is an Associate Editor of several journals, including Finance and Stochastics, Journal of FinTech, International Journal of Theoretical and Applied Finance, and Quantitative Finance. In addition, he is a frequent keynote speaker at Quantitative Finance and FinTech conferences and forums worldwide.