

1. The Role of Financial Markets in an Open Society + A brief on Financial Instruments.
2. HFT \in Quantitative Finance. Trading vs. Investing. Micro Structure.
3. L1: Price and Spread.
4. Market and Limit Orders.
5. Market Makers, making vs. taking. Fees, Order Flow as commodity. Robinhood. Front Running.
6. L2: The limit order book.
7. The basic paradigm of AI and its uses in Financial Markets.
8. M1: Market pressure.
9. Riskless Arbitrage Opportunity, the existential puzzle of free meals. M2. Dual Listing.
10. M3: Index Arbitrage.
11. The D.E. Shaw Group. David Shaw goes to Wall Street.
12. A black hole named Renaissance. Jim Simons spends 30 years of hard work in order to make a profit. And what a profit he makes! Few words about FinAI: an Israeli miracle.
13. Some famous blow ups: When genius failed, Nightmare at Wall Street.

Good Readings:

1. A random walk down Wall Street.
2. The man who solved the market.
3. When Genius failed.
4. Liar's Poker.
5. The Big Short.
6. Fooled by randomness.

Further Readings (Quantitative Finance, not HFT):

1. Unconventional Success.
2. The Alchemy of Finance.
3. John Hull.
4. Rubinstein on Derivatives.
5. Enough (Bagel). Some moral thoughts.

Good Watching:

1. Jim Simons on TED:

<https://www.youtube.com/watch?v=U5kldtMJGc8>

2. Jim Simons on Numberphile:

<https://www.youtube.com/watch?v=QNznD9hMEh0&t=1915s>

3. The Big Short.