

# Financial applications of blockchains and distributed ledgers

Master's program in Financial Engineering

Jiahua (Java) Xu

Session 4



# Housekeeping

# Time and venue

Three sessions: 15:15 – 16:10, 16:25 – 17:20, 17:35 – 18:30

Tuesdays, on Zoom, <https://epfl.zoom.us/j/4897861984>

# To-do's

1. From a group (12 students have done so).
2. (optional but appreciated) Contribute to the class discussion, on Moodle or live on Zoom.

# Recap

1. Recall: on/off-chain and cross-chain communication
2. Recall: fraudulent activities in the crypto space
3. Decentralized finance: examples

1. Richardson and Xu ([2020](#))
2. Ibañez et al. ([2020](#))
3. Sive ([2020](#))

# Thank you!

## Contact

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# References I

Ibañez, Juan Ignacio, Chris N. Bayer, Paolo Tasca, and Jiahua Xu. 2020. “REA, Triple-Entry Accounting and Blockchain: Converging Paths to Shared Ledger Systems.”

<https://doi.org/10.2139/ssrn.3602207>.

Richardson, Andreas, and Jiahua Xu. 2020. “Carbon Trading with Blockchain.” In *Mathematical Research for Blockchain Economy*, edited by Panos Pardalos, Ilias Kotsireas, Yike Guo, and William Knottenbelt, 105–24.

[https://doi.org/10.1007/978-3-030-53356-4\\_7](https://doi.org/10.1007/978-3-030-53356-4_7).

Sive, Simon. 2020. “Blockchain and Real Estate Tokenisation Author.”