

Master of Statistics and Data Science - master thesis topic 2021-2022

	Title:
	Uncover spiders in the Network
OUR REFERENCE	Name promoter: Jan De Spiegeleer (Dept. Mathematics)
OUR REFERENCE LEUVEN	Thesis topic is for
	one studenttwo studentsone or two students
	Available for students from:
	□ Statistics and data science for Biometrics □ Statistics and data science for Social, Behavioral and Educational Sciences □ Statistics and data science for Business □ Statistics and data science for Industry □ Theoretical Statistics and Data Science □ Interdisciplinary Statistics and Data Science
_	The working area is
	IXI KU Leuven□ a company outside KU Leuven:

Description:

An investment manager that has investment discretion over \$100 million or more in financial instruments, must report its holdings quarterly on a so-called "Form 13F" with the Securities and Exchange Commission (SEC) of the United States. These reports are well documented and can easily be extracted from the website of the SEC (https://www.sec.gov).

This quarterly report is a perfect source of information to investigate how financial markets are connected. If too many investment firms are invest in the same shares, this can cause a significant problem to the financial stability.

Requirements:

- Good working knowledge of python
- Having followed the course Modern Data Analytics (G0Z39a) is considered a plus
- · Having a keen interest in financial markets in general

