Leads and lags of corporate bonds and stocks

Keywords: Empirical Asset Pricing, Data Science, Statistical Analysis

Project description
The first goal of this IPD is to build up an international, extensive corporate bond database from Bloomberg for further research. To this end you will have to develop, test, and apply a code for automated data extraction in an appropriate language. The code should be flexible enough to be used for data updates and/or further data extensions. In the second part of this IPD you will have the opportunity to conduct your own asset pricing project. You will be provided with a comprehensive data sample of international stocks returns. By merging this data with your corporate bond dataset you should test the so-called lead-lag-relation between stock and bond returns, i.e. identify which market is faster in incorporating new information. Upon completion of this project you will have acquired substantial knowledge about capital market databases, fixed income research, empirical data analysis, and the functioning of financial markets in general. Among others, these skills are of high practical relevance for jobs in Banking, Asset Management, and Fintech.

What we are looking for
- Strong analytical and project management skills
- Determination and passion for your areas of expertise
- IT skills required for the IDP
- Interest to learn something about finance, in particular asset pricing, asset management, fixed income.
- 1 or 2 persons

What we offer
- Knowledge in quantitative finance, corporate finance and corporate governance
- Kick-off session including introduction to relevant finance and/or business topics
- Experience with IDPs
- Open dialogue and support
- Access to prime capital markets databases (Bloomberg, Datastream, Thomson Reuters, etc)
- Potential for publication and/or evaluation of future use cases
- Both single and group projects are possible

Interested?
Please send an e-mail with CV, academic transcript and your preference for this project to lisa.knauer@tum.de.

Questions?
In case of any (e.g. topic related) questions, please contact Lisa Knauer (lisa.knauer@tum or call +49 89 289 25485).