
INDICATIVE PROPOSALS FOR
MASTER/BACHELOR/DIPLOMA THESES

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- 1) Econometric Analysis of the deviations between quoted FRAs and implied forward rates
 - a. Are these deviations statistically/economically significant?
 - b. How can these deviations be economically motivated?
 - c. Can deviations be explained by exogenous variables (e.g. in a regression approach) ?
 - d. What are the time series dynamics?
 - e. Are the deviations predictable?
 - f. Are the results from c., d., e. economically exploitable via a trading approach?
- 2) Analysis and comparison of indicators for risk aversion (e.g. Vola-Skew, TED-Spread)
 - a. Which indicators for risk aversion exist?
 - b. How can these indicators be estimated?
 - c. Can risk aversion be explained by exogenous variables (e.g. in a regression approach) ?
 - d. What are the time series dynamics?
 - e. Which financial instruments depend on risk aversion (and how)?
 - f. Are the results from c., d. and e. economically exploitable via a trading approach?
- 3) Estimation of time-varying betas
 - a. Which models for time-varying betas exist?
 - b. What are the estimation procedures and what are their properties?
 - c. Empirical application: Hedge Fund Replication
- 4) Trend following systems
 - a. Which econometric approaches to predict trend reversals exist?
 - b. What are the estimators and what are their estimation properties?
 - c. Empirical application: FX, Fixed income ...
- 5) Comparison of recursive prediction techniques
 - a. Which prediction techniques have a recursive representation?
 - b. What are the optimality properties (in terms of prediction)?
 - c. (A simple comparison of computing time.)
 - d. Empirical application: Order-book-data
- 6) High-Frequency Trading
 - a. Which (econometric) high-frequency trading ideas exist?
 - b. Economic motivation of the trading ideas.
 - c. Properties of the econometric techniques.
 - d. Empirical application: Order-book-data, Transaction-data