Asset Management: Advanced Investments

Lecturer: Prof. Dr. Markus Leippold

Credits (ECTS): 3.0

Course contents:

- Standard Markowitz Model and Extensions MV Optimization, MV with Liabilities and CAPM.
- The Crux with MV Resampling, regression, Black-Litterman, Bayesian, shrinkage, constrained and robust optimization.
- Downside and Coherent Risk Measures Definition of risk measures, MV optimization under VaR and ES constraints.
- Risk Budgeting Equal risk contribution, most diversified portfolio and other concentration indices
- Regime Switching and Asset Allocation An introduction to regime switching models and its intuition.
- Strategic Asset Allocation Introducing a continuous-time framework, solving the HJB equation and the classical Merton problem.