Major Topics of Lectures

- Background, overview of text retrieval & analysis; relevant math

- Overview of statistical language models (LMs)

- N-gram LMs

- Language Models for Information Retrieval

- Mixture LMs (PLSA, LDA)

- State-Space LMs (Hidden Markov Models)

- Contextualized LMs

- Learning to rank

- Neural language models (word embedding, deep learning for IR)