

Advanced Probabilistic Modeling and Applications

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1 Schedule

- **15 Oct** Introduction (both) → T: exc
- **22 Oct** GMM + EM (Isa) → T: Code
- **29 Oct** DP- GMM + Gibbs (Isa) → T: Code
- **5 Nov** HMMs + Gibbs (Isa) → T: Code
- **12th Nov** TPPs + ML (Isa)
- **19th Nov** TPPs + SCM (Isa) → T: data science
- **26th Nov** MF approach (Cate) → T: exc
- **3rd Dec** Tap (Cate) → T: exc
- **10th Dec** Review and Spin glass planted I (Cate) → T: exc
- **17th Dec** Spin glass planted (BP) (Cate) → T: data science
- **7th Jan** MM-SBM (Poisson factorization?) + (EM/BP)(Cate) → T: data science
- **14th Jan** VI + GMMs (Cate) → T: Code
- **21st Jan** VI + LDA (Cate) → T: Data science
- **28st Jan** SVI (Poisson factorization?) (Isa)
- **4th Feb** VAE (Isa)

2 Lecture 1

- Program and Schedule
- Logistics
- Grading
- Feedback survey

Logistics: registration, locations and time

- Lecture: Tuesdays 14-16pm at A104 in Sand Campus
- Tutorial: Wednesdays 16-18pm TTR2 in Cyber Valley Campus
- Registration: **NEED to register** the exam either via Campus / ALMA or written if the student cannot register online.