

CS343

Artificial Intelligence

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Good Morning, Colleagues



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Are there any questions?

Logistics

- More good talks upcoming: Noah Smith, Emma Brunskill

Inference in Temporal Models

- Filtering
- Prediction
- Smoothing
- Most likely Explanation

Inference in Temporal Models

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- Learning

Pending Questions

- Forward and Backward messages
- Viterbi assumption - always one step?
- Fixed lag smoothing
- 15.2a - math relationship

Common Questions

- Always initialize to uniform distribution? Does it matter?
- What's a stationary process (how does it solve infinite t)?
- How does a stationary distribution work?
- (Gibbs sampling)
- How do you choose the order of the model?
- How can increasing the order be modeled as having more variables?
- How do you compute the mixing time?
- How does fixed-lag smoothing