



Multimodal Signal Processing for Communicative Robots

Presenter: Taewoon Kim



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1. Who am I?

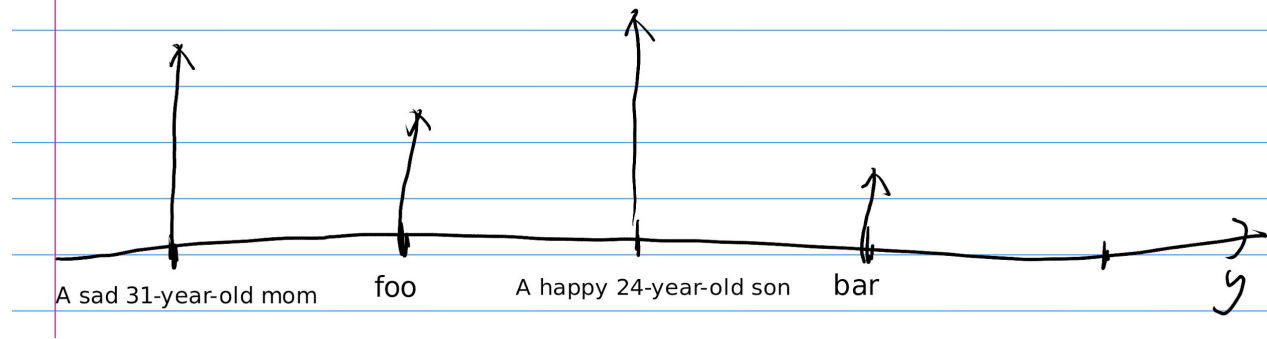
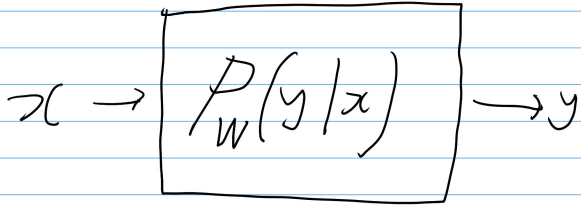
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Research interests: Communicative Robots, Language Grounding, End-to-End Deep Learning

2. End-to-end deep learning is great and all...



DNN as a conditional categorical distribution function (pmf).
 x is a vector and y is a scalar. W is the trainable weight matrix.



3. Project proposal

https://github.com/cltl/ma-communicative-robots/blob/master/proposal_tk.md



4. Github leolani organization

Link: <https://github.com/leolani>

The repos that are most relevant to us are:

- [cltl-sentimentrecognition](#), [cltl-emotionrecognition](#)
- [cltl-facedetection](#)
- [cltl-genderdetection](#), [cltl-agedetection](#)

Anyone interested in trying face detection and age/gender estimation can try on my google colab:
https://github.com/tae898/DeepLearning/blob/master/Chapter01_Introduction.ipynb



5. QnA

We'll be having a QnA time after Jaap's and Lea's presentations.