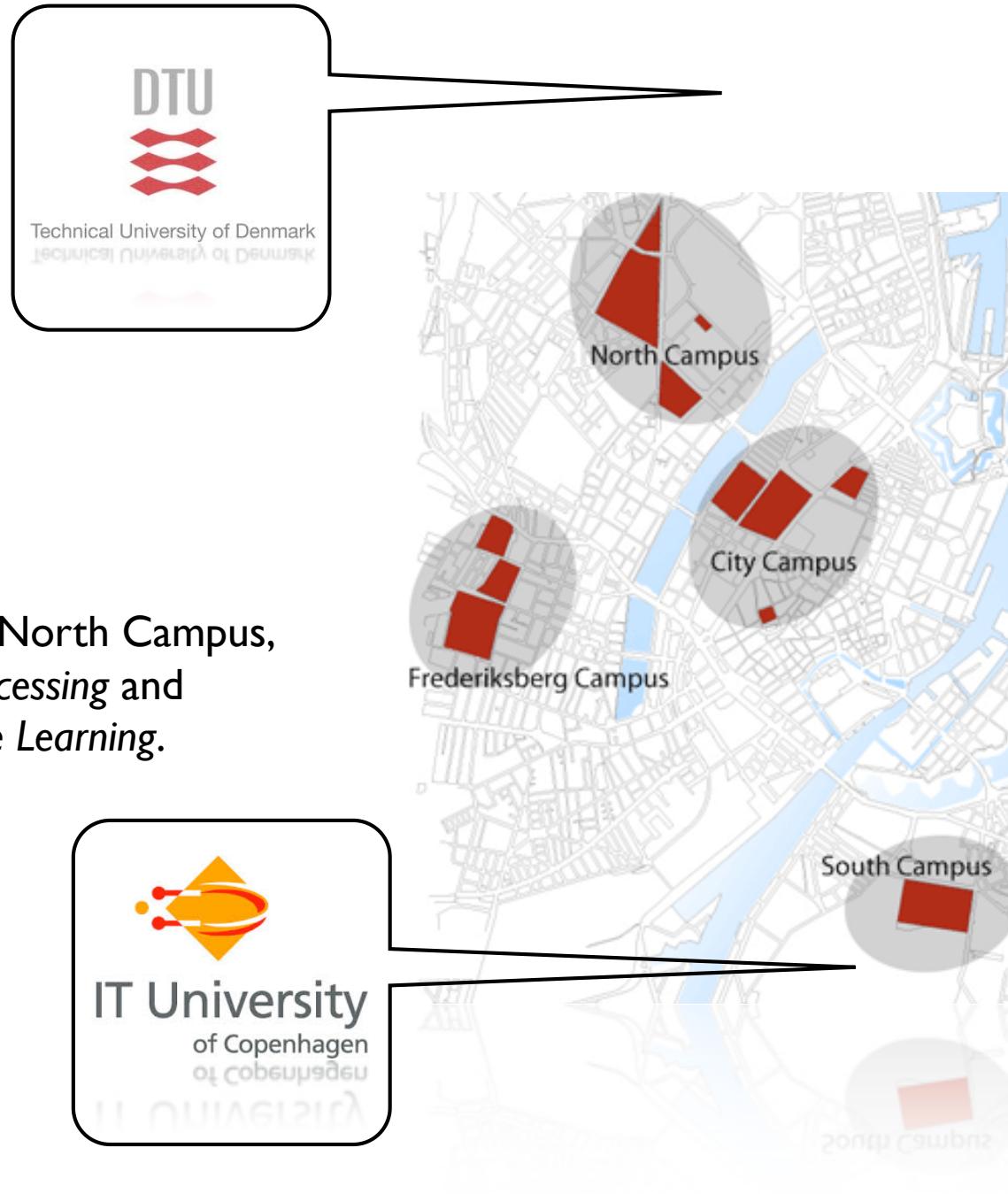




IT and Cognition

IT & Cognition 2013 Kick-off Meeting





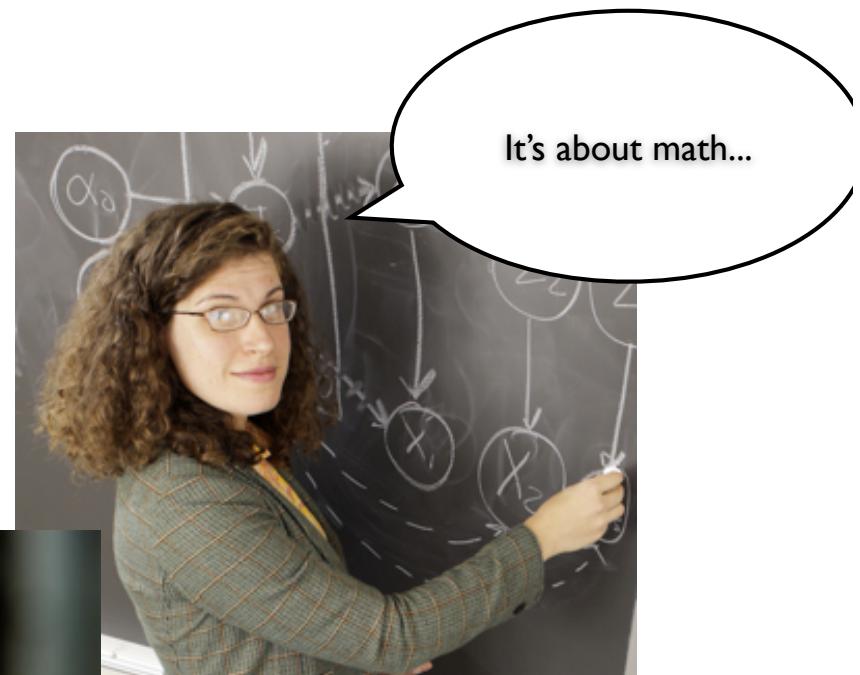
UCPH Campuses

Note: Some courses at the North Campus, including *Vision and Image Processing* and *Statistical Methods for Machine Learning*.





It's about cognition...



It's about math...



It's about language...

NO! It's about vision...



It's about programming...

Semester	Module (study part)	Subject element (type of subject)	Exam provisions	
1.	1: IT and Cognition I (the basic subject) 30 ECTS credits	Cognitive Science I (compulsory and constituent) 7.5 ECTS credits Activity code: HIOK03401E	Oral exam, set subject External 7-point scale	
		Scientific Programming (compulsory and constituent) 7.5 ECTS credits Activity code: HIOK03411E	Active student participation Internal by one examiner Pass/Fail	
		Vision and Image Processing (compulsory and constituent) 7.5 ECTS credits Activity code: HIOK03421E	Active student participation Internal by one examiner Pass/Fail	
		Language Processing I (compulsory and constituent) 7.5 ECTS credits Activity code: HIOK03431E	Active student participation Internal by one examiner Pass/Fail	
2.	2: IT and Cognition II (the basic subject) 30 ECTS credits	Cognitive Science II (compulsory and constituent) 7.5 ECTS credits Activity code: HIOK03441E	Oral exam with synopsis, optional subject External 7-point scale	
		Language Processing II (compulsory and constituent) 7.5 ECTS credits Activity code: HIOK03451E	Written take-home assignment, set subject Internal by more than one examiner 7-point scale	
		Specialization I (compulsory, selective and constituent) 7.5 ECTS credits Activity code: HIOK03461E	Written take-home assignment, optional subject External 7-point scale	
		Statistical Methods for Machine Learning (compulsory and constituent) 7.5 ECTS credits Activity code: HIOK03471E	Written take-home assignment, set subject, following active student participation External 7-point scale	
			Activity code: HIOK03511E	
		Specialization IV (selective and constituent) 7.5 ECTS credits Activity code: HIOK03521E	Written take-home assignment, optional subject External 7-point scale	

See itandcognition.ku.dk

IT & Cognition 1st semester 2013

	Mon	Tue	Wed	Thu	Fri
9-11	Cognitive Science I	Scientific Programming - Exercises	Vision and Image Processing (9-12)		Language Processing
11-13					Scientific Programming
13-15	Vision and Image Processing	Cognitive Science I			
13-16			Vision and Image Processing		

10-11 hours a week



IT & Cognition: 250 ways to
improve your work-life balance...

Extra-curricular activities

1. Reading groups
2. IT & Cognition Guest Lectures
3. Supervision
4. Foobar, Mødestedet & Nordisk Kaffebar
5. Summer schools
6. Conference papers



Reading Groups



In addition to IT & Cognition Guest Lectures, there are relevant talks at the Dpt. of Computer Science, CBS, DTU, ITU, etc.

Guest lectures - Spring 2013

Mirsk ApS: Business presentation

Andreas Kirkedal (CBS): Speech technology

Karnov Group: Business presentation

Apertium ApS: Business presentation

Sigrid Klerke (KU): Automatic sentence simplification

NOTA: Business presentation

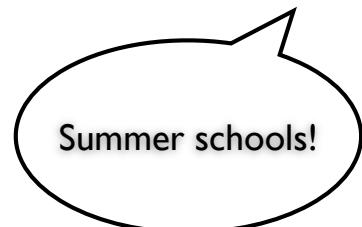
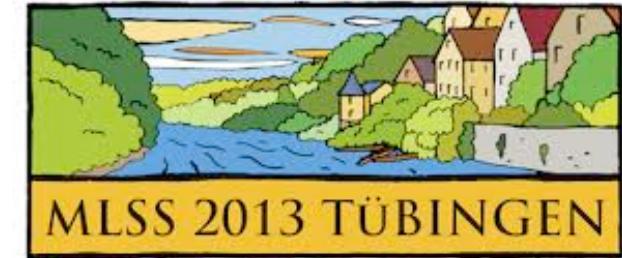
Joel Tetreault (**Nuance**, San Francisco): Automatic error correction

Oscar Täckström (**Google**, NY): Learning with cross-lingual supervision



Supervision...





Linguistic Society of America



You get to do conference papers and *travel!

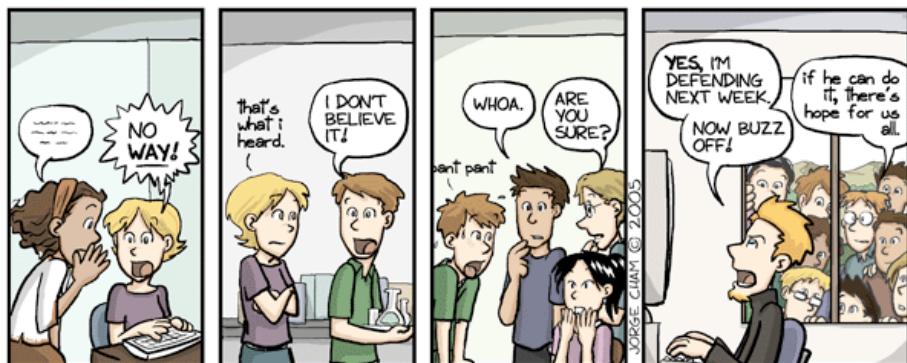


*If we find funding...

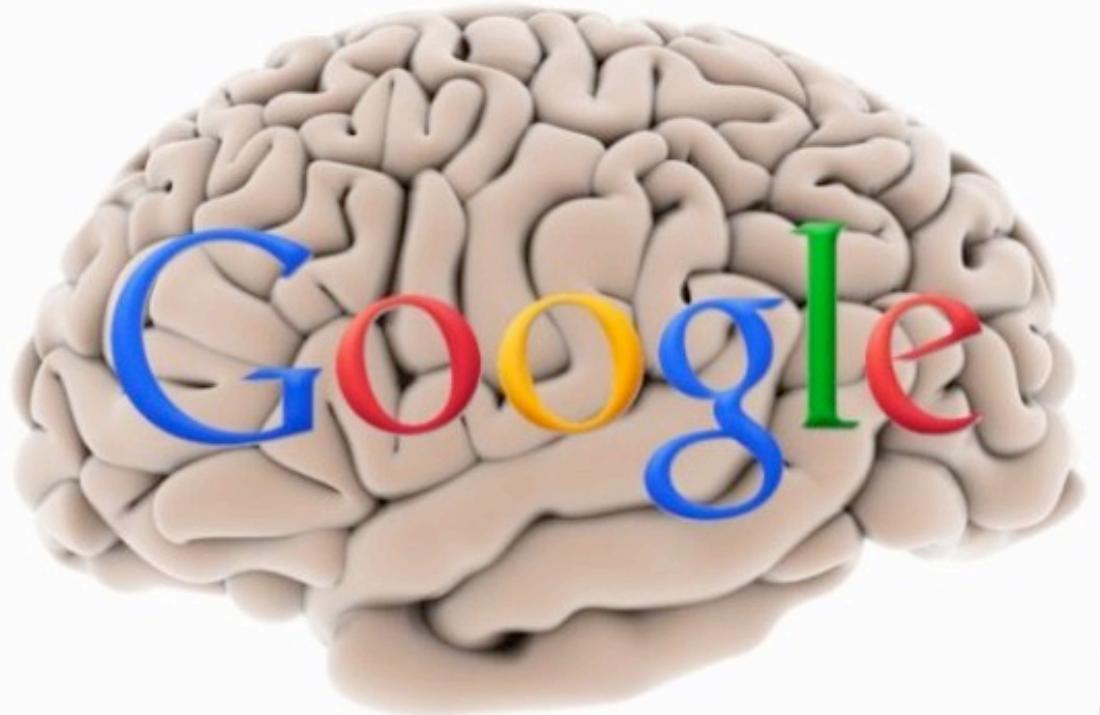
1. Søgaard, Anders; Rishøj, Christian. 2009. Vine parsing augmented Italian treebanks. The 11th Conference of the Italian Association for Artificial Intelligence, EVALITA. Reggio Emilia, Italy.
2. Kristiansen, Søren Lind; Søgaard, Anders. 2010. Querying dependency treebanks in hybrid logic. Hybrid Logic and Applications, The 25th Annual IEEE Symposium on Logic in Computer Science (LICS). Edinburgh, Scotland.
3. Klerke, Sigrid; Søgaard, Anders. 2012. DSim, a Danish parallel corpus for text simplification. The 8th International Conference on Language Resources and Evaluation. Istanbul, Turkey.
4. Søgaard, Anders; Wulff, Julie. 2012. An empirical study of non-lexical extensions to delexicalized transfer. The 24th International Conference on Computational Linguistics (COLING). Mumbai, India.
5. Johannsen, Anders; Martinez, Hector; Klerke, Sigrid; Søgaard, Anders. 2012. EMNLP@CPH: Is frequency all there is to simplicity? SemEval-2012, 1st Joint Conference on Lexical and Computational Semantics. Montreal, Canada.
6. Nisbeth, Niklas; Søgaard, Anders. 2012. Parser combination under sample bias. SPLeT, Language Resources and Evaluation Conference. Istanbul, Turkey.
7. Grove, Anders. 2012. Automatic analysis of hand movement phases in video speech. Workshop on Multimodal Corpora, Language Resources and Evaluation Conference. Istanbul, Turkey.
8. Hardt, Daniel; Wulff, Julie. 2012. What is the meaning of 5 *'s? An investigation of the expression and rating of sentiment. PATHOS, KONVENS 2012. Konstanz, Germany.
9. Elming, Jakob; Johannsen, Anders; Klerke, Sigrid; Lapponi, Emanuele; Martinez, Hector; Søgaard, Anders. 2013. Down-stream effects of tree-to-dependency conversion schemes. North American Chapter of the Association for Computational Linguistics. Atlanta, Georgia.
10. Klerke, Sigrid; Elbro, Carsten; Søgaard, Anders. 2013. Tracking readability in eye movements. 17th European Conference on Eye Movements. Lund, Sweden.
11. Klerke, Sigrid; Søgaard, Anders. 2013. Simple readable sub-sentences. The 51st Annual Meeting of the Association for Computational Linguistics (ACL), Student Research Workshop. Sofia, Bulgaria.
12. Matthies, Franz; Søgaard, Anders. 2013. Predicting eye movements when reading across speakers and languages. EMNLP. Seattle, Washington.

MA Thesis Topics

Note: MA Thesis includes a public oral defense.



movements
Chatbots Twitter
detection
Text representation
Telemedicine
recognition
Emotion
Word
entity Educational
classification eye
translation sense mining
simplification
Brain-computer
Sentiment induction
Document Sarcasm
interaction
analysis Predicting Gesture
Human-computer
Meta-learning
Eye-tracking
Statistical
data Named
machine



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INFOMEDIA

textkernel
meltwater
group



orderbird



emEDIATE

REGION
Hovedstaden

Places graduates
work...

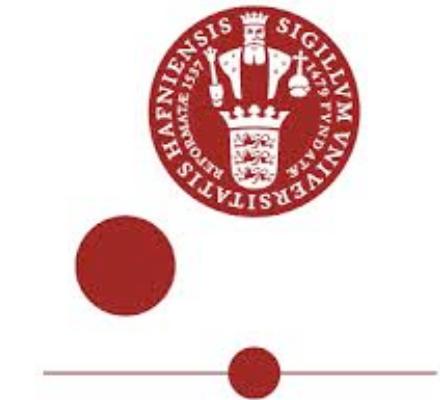
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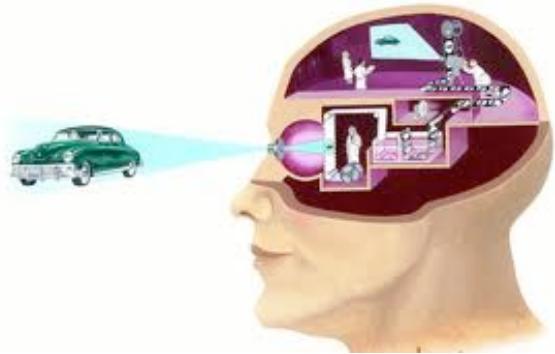
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Cognitive Science I



Language Processing I



Vision and Image Processing



Cognitive Science II

The Natural Language Group at USC/ISI



Now a 10 minute postcard
from LA...