17th Geilo Winter School in eScience

Impressions from this week

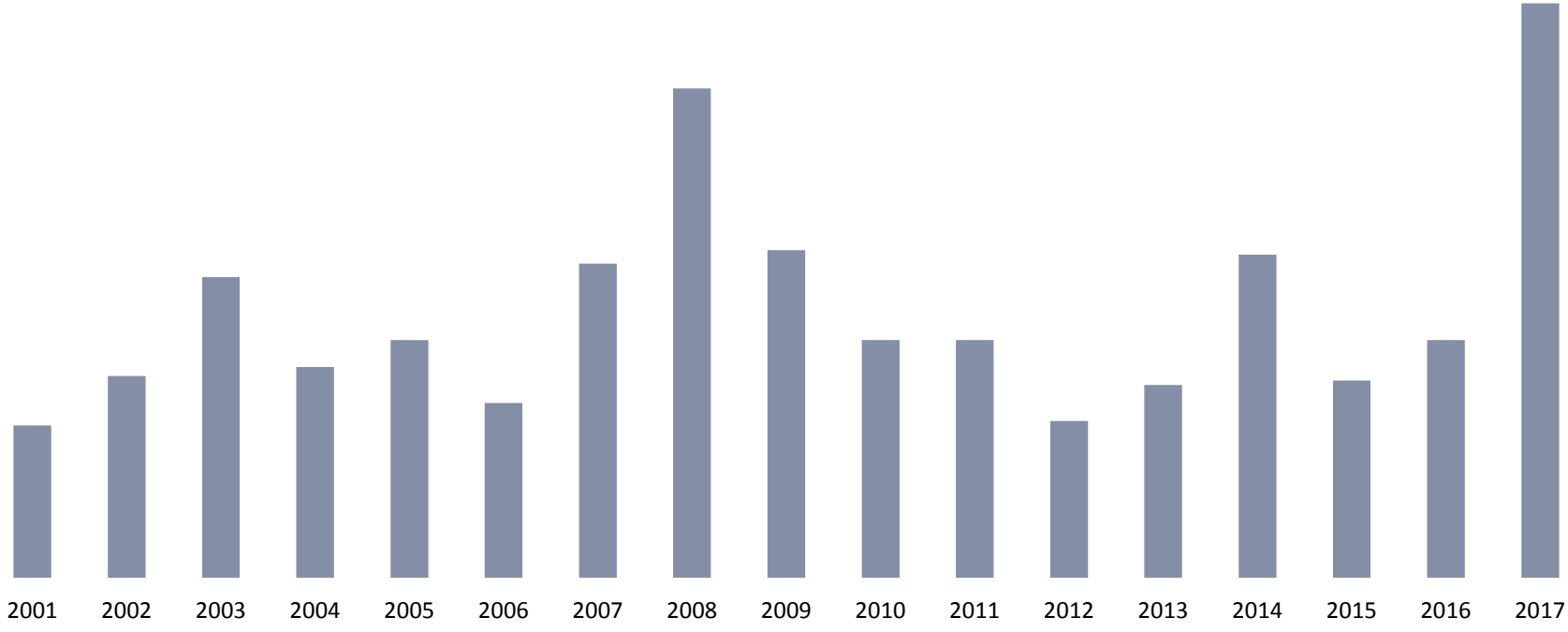
What was the aim of this week?

- Alpine – cross country – snowboard – telemark –randonee?
- Learning something about Machine Learning?
- Meeting other fellow researchers?
- Meeting industry?
- Meeting across senior/junior boundaries?

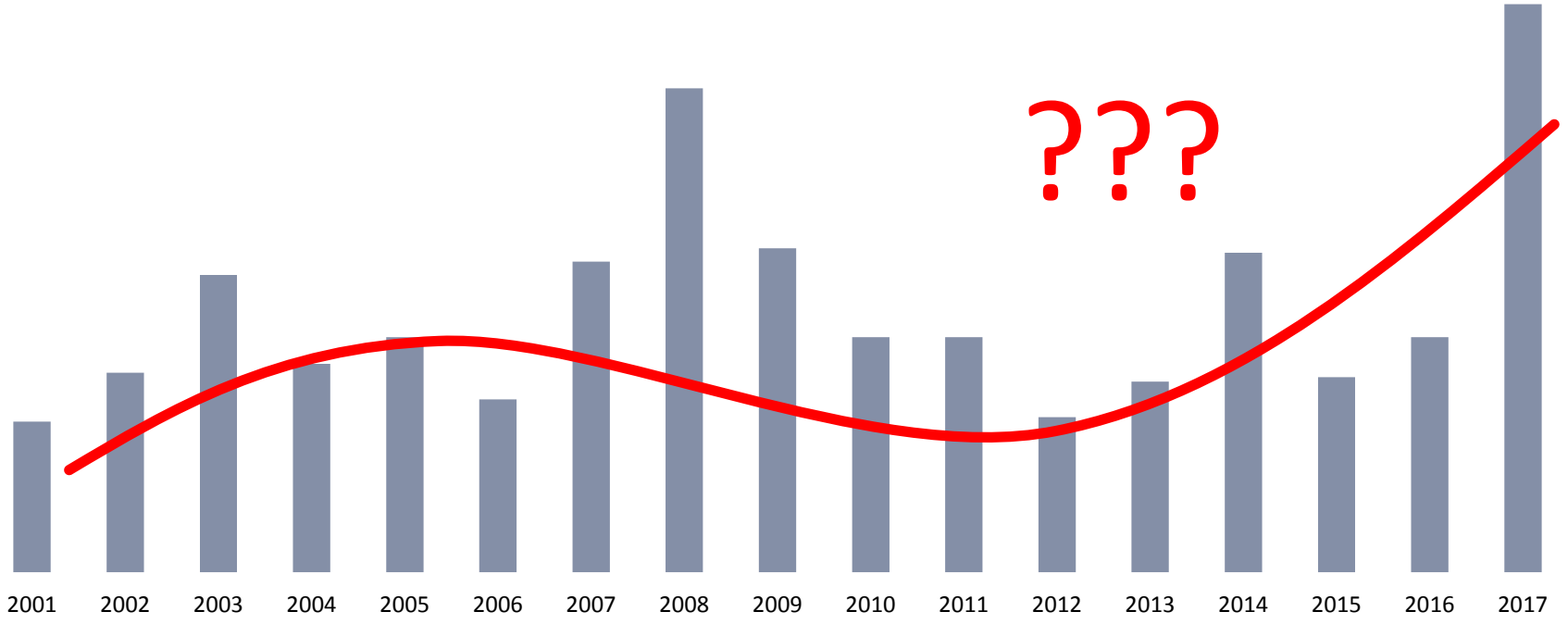
Winter School Program

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
07:30 - 09:00		Breakfast				
09:00 - 09:45		Robert Jenssen Michael Kampffmeyer	Filippo Bianchi	Devdatt Dubhashi	Nils Lid Hjort	Nils Lid Hjort
09:45 - 10:30						
10:30 - 11:00		Break				Checkout by 11:00
11:00 - 11:45						
11:45 - 12:30						Summary and lunch
12:30 - 15:00		(Lunch 12:30 - 14:00)				
15:00 - 15:45		Joaquin Vanschoren	Devdatt Dubhashi	Devdatt Dubhashi	Mark Tibbetts	
15:45 - 16:30						
16:30 - 17:00	Coffee					
17:00 - 17:45	Introduction	Robert Jenssen	Joaquin Vanschoren	Nils Lid Hjort	Poster session	
17:45 - 18:30	Joaquin Vanschoren					
18:30 - 19:15						
19:30	Dinner					

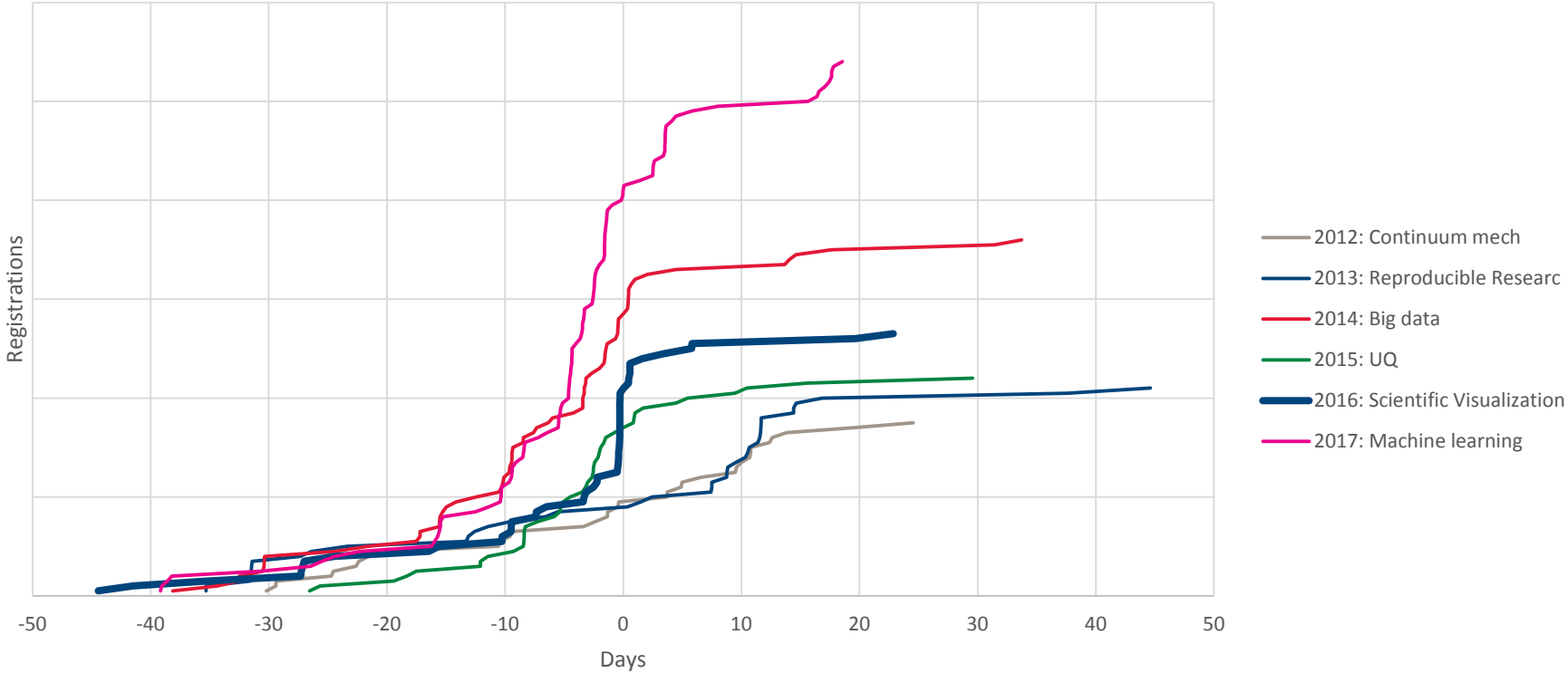
Registrations per year

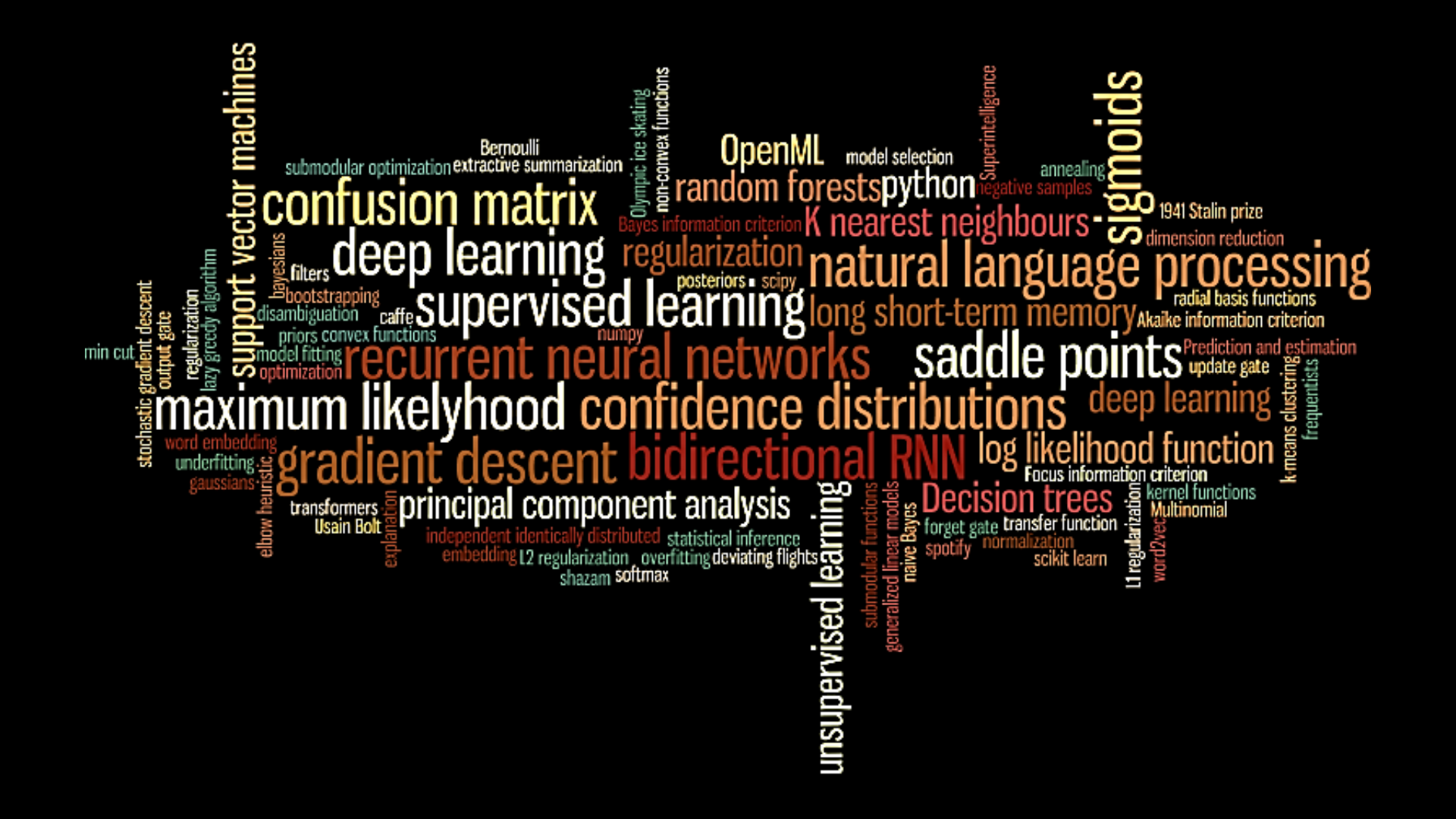


Registrations per year



Registrations per day




support vector machines
confusion matrix
deep learning
supervised learning
maximum likelyhood
recurrent neural networks
gradient descent
bidirectional RNN
confidence distributions
principal component analysis
unsupervised learning
saddle points
deep learning
log likelihood function
Decision trees
natural language processing
long short-term memory
regularization
random forests
python
OpenML
sigmoids
K nearest neighbours
Bernoulli
submodular optimization
extractive summarization
Olympic ice skating
non-convex functions
model selection
Superintelligence
annealing
negative samples
1941 Stalin prize
dimension reduction
Bayes information criterion
radial basis functions
Akaike information criterion
Prediction and estimation
update gate
k means clustering
frequentists
Focus information criterion
kernel functions
Multinomial
transfer function
normalization
scikit learn
L1 regularization
word2vec
forget gate
spotify
naive Bayes
submodular functions
generalized linear models
independent identically distributed
statistical inference
embedding
L2 regularization
overfitting
deviating flights
shazam
softmax
transformers
Usain Bolt
explanation
elbow heuristic
gaussians
word embedding
underfitting
stochastic gradient descent
output gate
regularization
lazy greedy algorithm
min cut
bayesians
filters
bootstrapping
disambiguation
caffe
priors convex functions
model fitting
optimization
numpy
posteriors
scipy

Lecturers: Thank you!

Filippo M. Bianchi

Devdatt Dubhashi

Nils Lid Hjort

Robert Jenssen

Michael Kampffmeyer

Mark Tibbetts

Joaquin Vanschoren

Scientific committee: Thank you!

- Inga Berre, University of Bergen
- Xing Cai, Simula / Unviersity of Oslo
- Anne Elster, NTNU
- Margot Gerritsen, Stanford
- Helwig Hauser, UiB
- Trond Kvamsdal, NTNU / SINTEF
- Knut-Andreas Lie, SINTEF / NTNU
- Hans Ekkehardt Plesser, NMBU
- Geir Storvik, UiO
- Ståle Walderhaug, SINTEF

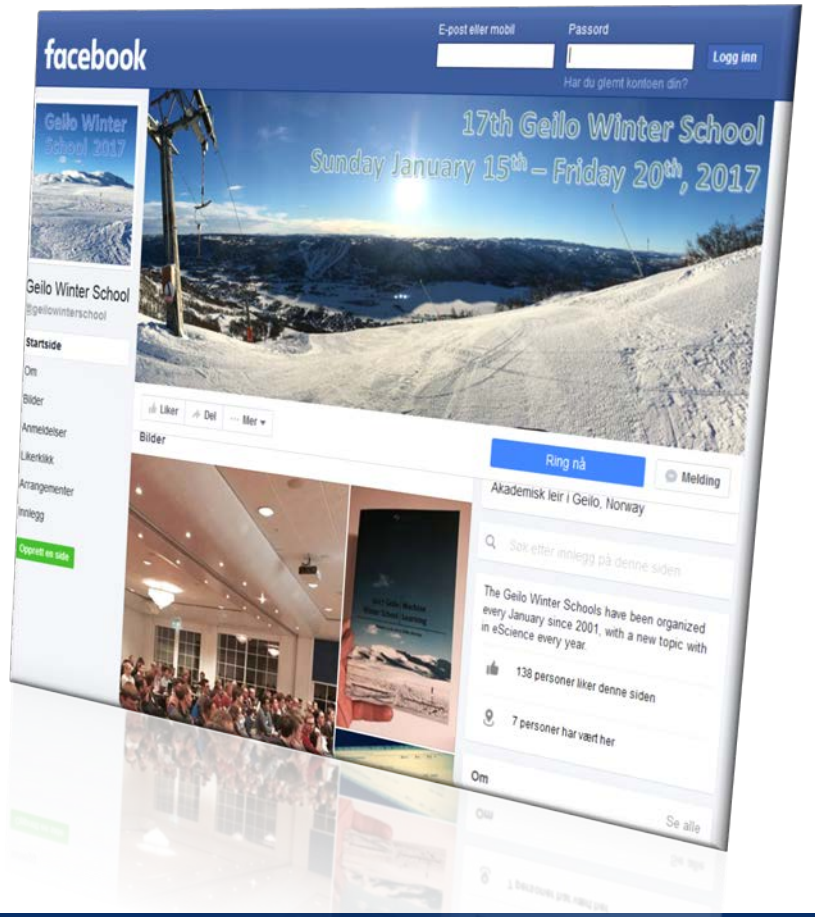
School would not be possible without funding!

With funding from
The Research Council of Norway

- Funded by the Research Council of Norway
  - 2001-2004: *Winter schools in computational mathematics* (137461)
  - 2005-2006: *Winter schools in computational mathematics* (159868)
  - 2007-2010: *National Arena in eScience* (178774)
  - 2011-2015: *eVita Winter School* (203376)
  - 2016-2020: *Geilo Winter School in eScience* (249772)

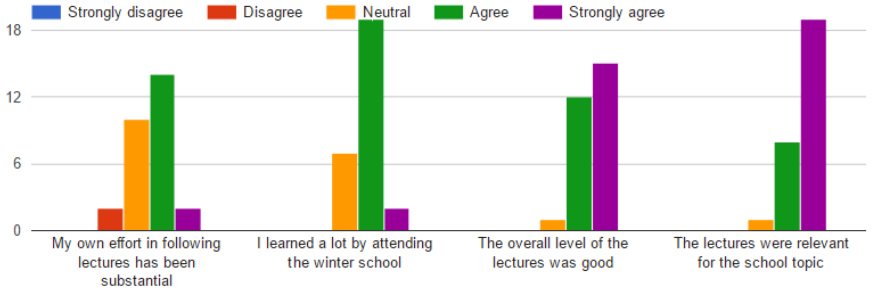
Social media: help me promote

- Please like and follow the Geilo Winter School page
- Please share your photos with the Geilo Winter School facebook page or me directly
- Use #geilowinterschool on instagram !



Survey from this years school?

- I will send out a survey to all participants.
- I use the results of this survey to
  1. Improve the school
  2. Argue for funding after 2020
- I need your input: please help me fill out the survey

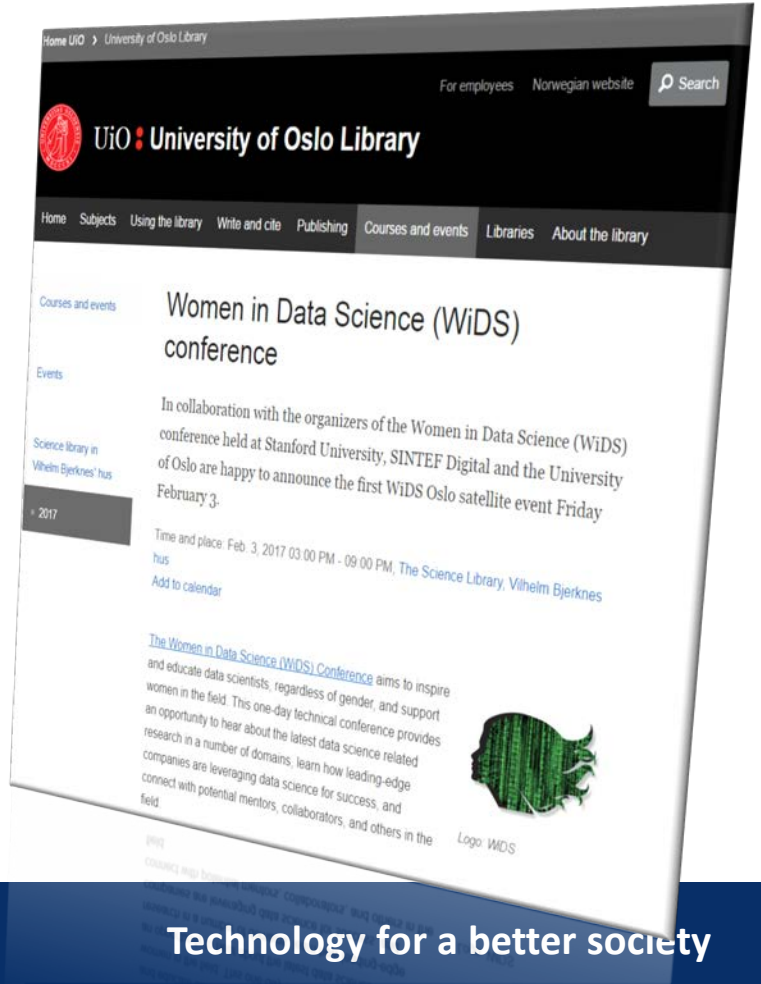


Winter school topics

2001: Cluster computing	2002: Methods for CFD	2003: Nonlinear PDEs	2004: Evolutionary PDEs	2005: Inverse problems
2006: Finite Element method	2007: Monte Carlo methods	2008:Parallel Computing	2009: Optimization	2010: Automatic Differentiation
2011: Multiscale methods	2012: Continuum Mechanics	2013: Reproducible Research	2014: Big data and statistics	2015: Uncertainty Quantification
2016: Scientific Visualization	2017: Machine Learning	2018: ???	2019: ???	2020: ???

Advertisement

- Women in data science conference
- One day event: Feb. 3rd 3PM-9PM
- Open for all
- Look at program:
- http://www.ub.uio.no/english/courses-events/events/ureal/2017/2017-02-03-wids.html



Thank for coming

- Thank you all for coming to the winter school
- I truly hope you had a good week here!
  - Learned something new
  - Met some new contacts
  - Got inspired and had a good time
- Please help me with filling out the survey!

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