

Big Data Challenges to Modern Statistics

14th eVITA Winter School in eScience sponsored by  Norges forskningsråd

Dr. Holms Hotel, Geilo, Norway

January 19-24, 2014

Welcome & Introduction

Dr. André R. Brodtkorb

Research Scientist

SINTEF ICT, Dept. of Applied Mathematics

Acknowledgements

- The Winter School in eScience is sponsored by  Norges forskningsråd
- 2014 organizing committee



Professor Arnaldo Frigessi
University of Oslo



Dr. André R. Brodtkorb
SINTEF ICT

About the Winter School

- Organized since 2001
 - Knut-Andreas Lie organizer from 2001-2012
 - André R. Brodtkorb organizer since 2011
- Held annually the third week in January at Dr. Holms Hotel, Geilo
- Typical schedule consists of 14 double lectures (1.5 hours)



	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
07:00 - 09:00		Breakfast				
09:00 - 10:30		Lecture	Lecture	Lecture	Lecture	Lecture
10:30 - 12:30						Lecture
12:30 - 14:45		Break (lunch 12:30 - 14:00)				Lunch, End
15:00 - 16:30		Lecture	Lecture	Lecture	Lecture	
16:30 - 17:00		Coffee				
17:00 - 18:30	Lecture	Lecture	Lecture	Lecture / Poster	Lecture	

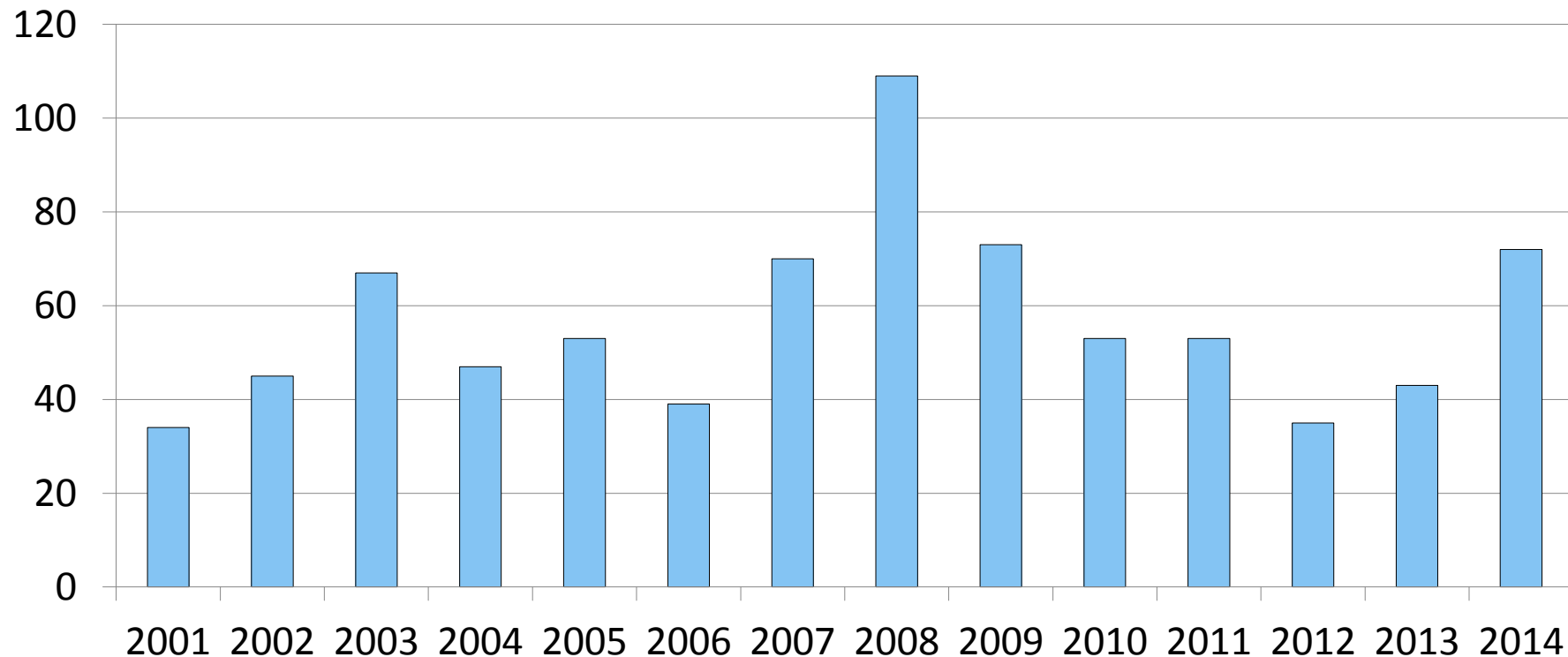
About the Winter School

- Funded by the Research Council of Norway through a series of projects
 - *Winter schools in computational mathematics* (2001-2004)
 - *Winter schools in computational mathematics* (2005-2006)
 - *National Arena in eScience* (2007-2010)
 - *eVita Winter School* (2011-2015)
- The winter school is a place to learn something new and to meet fellow researchers
 - A long break for skiing and socializing in the middle of the day
 - Typically a three course meal served every day
 - Use this opportunity to socialize and meet interesting contacts
- The lectures targets Ph.D. level students and young researchers

Winter school topics

- 2001 – Beowulf Clusters
- 2002 – Computational methods for fluid mechanics
- 2003 – Numerical methods for nonlinear partial differential equations and Level set methods
- 2004 – Adaptive methods for PDEs
- 2005 – Invers problems and parameter identification for PDE models
- 2006 – Automating the finite element method and turbulent flow simulation
- 2007 – Monte Carlo methods
- 2008 – Parallel computing
- 2009 – Optimization
- 2010 – Automatic differentiation
- 2011 – Mathematical and numerical methods for multiscale problems
- 2012 – Continuum mechanics
- 2013 – Reproducible science and modern scientific software
- 2014 – Big data challenges to modern statistics
- 2015 –

Number of participants



Information about Dr. Holms

- An old hotel, opened in 1909
 - They even have their own hotel ghost, the Grey Lady.
- Meals
 - Breakfast from 7:30 to 9:00
 - Lunch from 12:30 to 14:00
 - Dinner at 19:30
 - Coffee breaks with light snacks
 - Please: no ski boots, shorts, sandals etc. in the dining hall
- Use the meals and breaks as an opportunity to meet someone new
- All beverages must be paid for separately



Dr. Ingebrikt Christian Holm













Ghost Woman, Nelson Soucasaux

Information about Dr. Holms

- Discounted ski passes can be bought at the reception
 - 3 hours for 180 NOK (50 NOK for a keycard)
- Ski and snow rentals also at a discount
 - 50% discount mid-week
- You may eat lunch in the slopes:
 - Get a coupon at the reception before 10:00 AM
- Bowl & Dine with bowling hall
 - 50 meters to the left of the main entrance
- Swimming pool
- Spa department open for reservations



Weather forecast for Geilo

Mandag 20. januar 12-18	Tirsdag 21. januar 12-18	Onsdag 22. januar 13-19	Torsdag 23. januar 13-19	Fredag 24. januar 13-19
				
-12°	-15°	-16°	-20°	-18°
0 mm	0 mm	0 mm	0 mm	0 mm
				

Yr.no, 2014-01-19

Internet

Network name: Dr. Holms Hotel
Username: drholms1
Password drholms1

With great power comes great responsibility

- Please use the internet responsibly and pay attention to the lectures
- Don't use your laptop or smartphone during lectures for:
Excessively checking mail, working, reading online news, chatting, playing games, ...
There is ample time during breaks to answer the most important emails etc.



Winter School Program

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
07:30 - 09:00		Breakfast				
09:00 - 09:45		Aila Särkkä	Laurent Younes	Elja Arjas	Laurent Younes	Steve Marron
09:45 - 10:30						
10:30 - 11:00		Break				
11:00 - 11:45						
11:45 - 12:30						
12:30 - 15:00		(Lunch 12:30 - 14:00)				
15:00 - 15:45		Steve Marron	Ernst Wit	Elja Arjas	Jukka Corander	
15:45 - 16:30				Aila Särkkä		
16:30 - 17:00		Coffee				
17:00 - 17:45	Introduction	Jukka Corander	Laura Sangalli	Aila Särkkä	Ernst Wit	
17:45 - 18:30	Elja Arjas			Poster		
19:30	Dinner					

Lectures start on the hour, not quarter past.

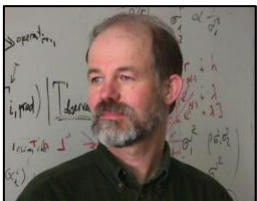
Out of respect for our lecturers, please be on time (also for the morning lectures)!

Poster session on Wednesday

- From 17:45 - 18:30 on Wednesday
- Wide range of topics
- Light refreshments



Lecturers



Elja Arjas

University of Helsinki, Finland



Laurent Younes

Johns Hopkins University,
United States



Laura Sangalli

Politecnico di Milano, Italy



Jukka Corander

University of Helsinki, Finland



Aila Särkkä

Chalmers University, Sweden



Ernst Wit

University of Groningen,
Netherlands



Steve Marron

University of North Carolina
at Chapel Hill, United States