NORDSTAT 2023 GOTHENBURG

19-22 June 2023

https://nordstat2023.org/

@nordstat2023

DOCUMENT VERSION 17 June 2023

CHALMERS | UNIVERSITY OF GOTHENBURG

Foreword

There are many people and organizations that we, the Organizing Committee, wish to thank for the setting-up of NORDSTAT 2023.

Firstly, we would like to thank all the 300 participants, and the 173 oral speakers and 43 poster presenters that enriched the conference with their work. Thank you for sharing your research with us!

We cannot but be very grateful to the Scientific Committee (see next page) chaired by Professor Mattias Villani, for the excellent work in overseeing the quality of the scientific program, for selecting themes for the invited sessions and their sessions organizers, and for the difficult but necessary work of scrutinizing and selecting the many contributed talks and posters. Communication with all of you has been a pleasure and we thank you very much for your service.

We thank the organizers of the 18 invited sessions for allowing the conference to benefit from the presence of so many excellent scholars.

We thank our conference secretariat MEETX for continuous advice and professional support before and during the conference: in particular, we thank the MEETX project responsible Maria Lindbäck, Marie Eriksson, Pärnilla Thompson and Nick Witthall.

We thank the NORDSTAT support team formed by PhD students from the Department of Mathematical Sciences at Chalmers and the University of Gothenburg (see next pages), for their indispensable help in setting up many logistics, IT supervision at the many parallel sessions, and for their enthusiasm.

We are grateful for generous funding from: AstraZeneca, Chalmers AI Research Centre (CHAIR), the Royal Society of Arts and Sciences in Gothenburg, the Swedish Statistical Society, the Wilhelm and Martina Lundgren's Science Foundation.

Thanks to the board of the Scandinavian Journal of Statistics (SJS) for sponsoring the SJS lecture and to the Swedish Statistical Society (SSS) for sponsoring the SSS Lecture.

We thank the City of Gothenburg for generously hosting the Welcome Reception.

Thanks to Springer for donating books used e.g. as prizes.

Sincerely,
The NORDSTAT 2023 Organizing Committee

Organizing Committee (all at Dept. Mathematical Sciences, Chalmers and the University of Gothenburg)

Umberto Picchini (committee chair)	Annika Lang
Setta Aspström	Holger Rootzen
Marina Axelson-Fisk	Serik Sagitov
Ottmar Cronie	Moritz Schauer
Johan Jonasson	Aila Särkkä
Rebecka Jörnsten	

Scientific Committee

Mattias Villani (committee chair, Stockholm University)

Krista Fischer (University of Tartu)

Annika Lang (Chalmers/University of Gothenburg)

Lasse Leskelä (Aalto University)

Umberto Picchini (Chalmers/University of Gothenburg)

Valeria Vitelli (University of Oslo)

Rasmus Waagepetersen (Aalborg University)

NORDSTAT 2023 Support Team (PhD students at Dept. Mathematical Sciences, Chalmers and the University of Gothenburg)

Julia Jansson (chair of the team)	Erik Karlsson Nordling
Isac Boström	Konstantinos Konstantinou
Kasper Bågmark	Vincent Molin
Oskar Eklund	Ioanna Motschan-Armen
Erik Jansson	Selma Tabakovic
Petar Jovanovski	Johan Ulander

The NORDSTAT 2023 logo was designed by Moritz Schauer.

The Welcome Reception is hosted in collaboration with the City of Gothenburg.
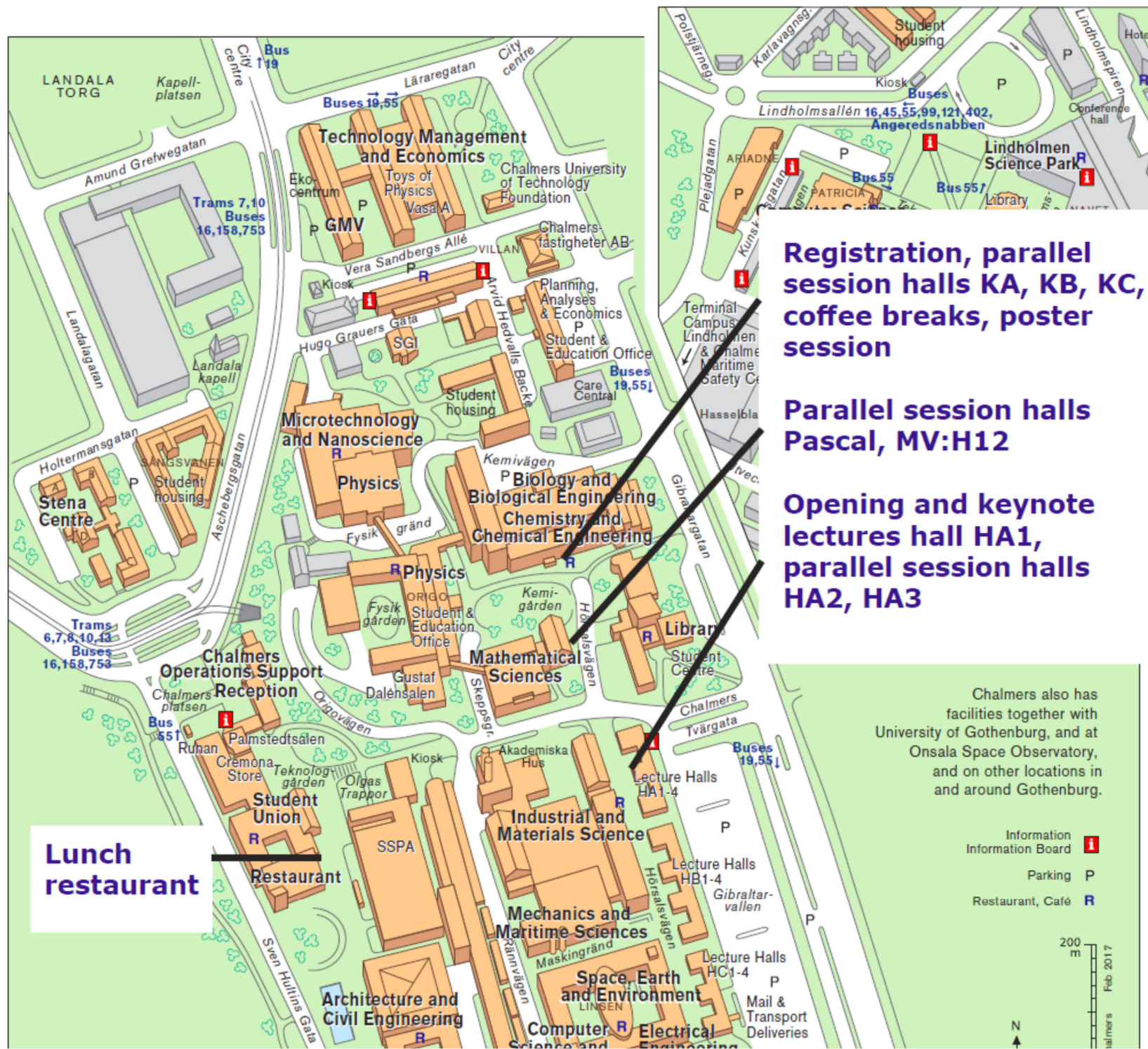

City of Gothenburg

Maps and addresses

Conference check-in: Kemigården 4, Chalmers Campus Johanneberg

Welcome Reception (June 19 at 19.30): Universitetsplatsen 1, University of Gothenburg Vasaparken
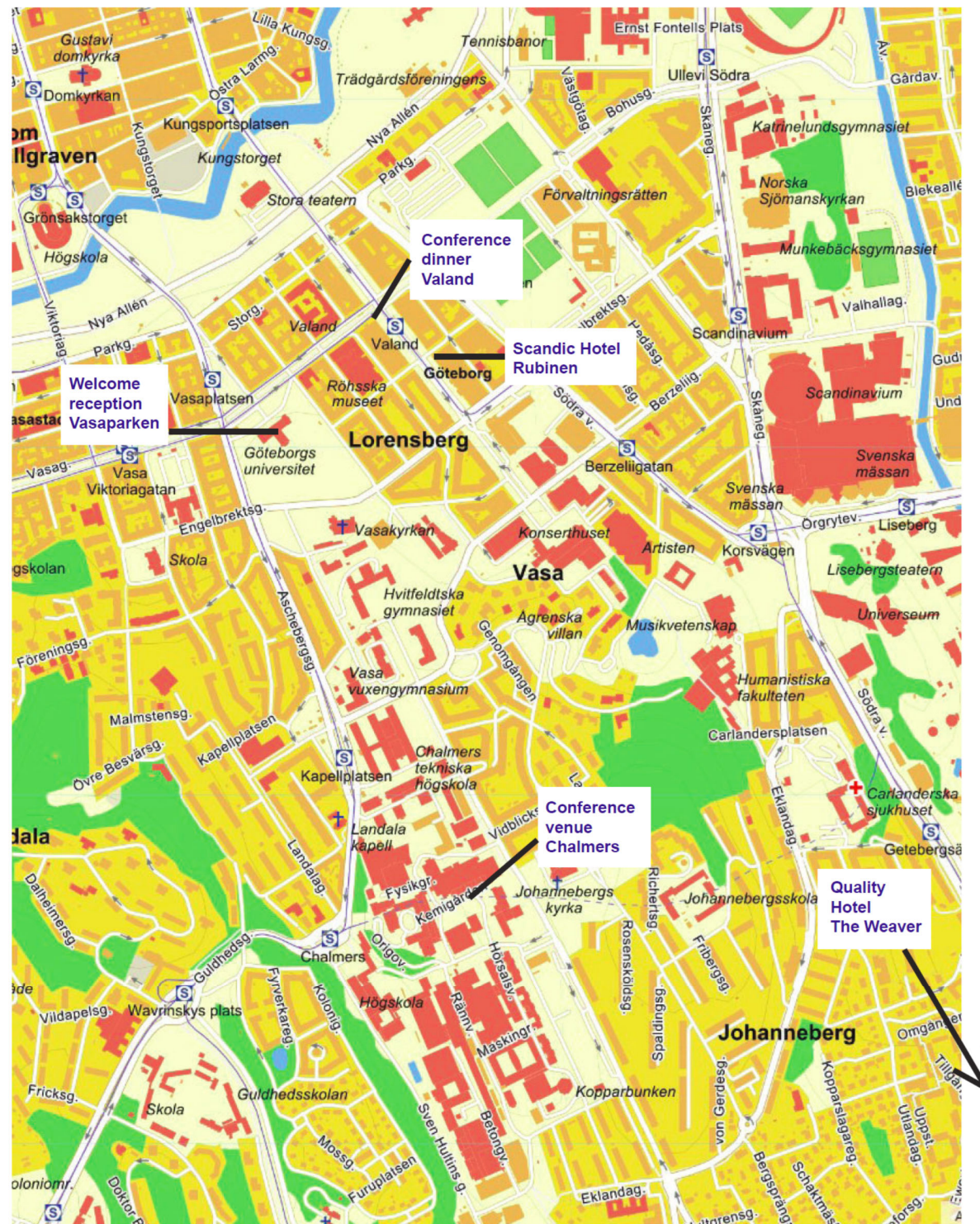
Conference dinner (June 21 at 19.00): Vasagatan 41, Valand Restaurang

Scandic Rubin hotel: Kungsportsavenyn 24

Quality Hotel The Weaver: Göteborgsvägen 91

LANDALA TORG

Kapell-platsen

City centre

Bus 19

City centre

Läraregatan

Buses 19,55

Student housing

Polstjärneg.

Karlavagnsg.

Kiosk

Buses
Lindholmsallén 16,45,55,99,121,402, Angeredsnabben

Lindholmspiren

P

Hotel

R

Conference hall

Amund Grefwegatan

Technology Management and Economics

Chalmers University of Technology Foundation

ARIADNE

PATRICIA

Lindholmen Science Park

Bus 55

Bus 55

Library

NAVET

Plejadgatan

Kunskapsg.

Eko-centrum

Toys of Physics Vasa A

P

GMV

P

Chalmers-fastigheter AB

VILLAN

Vera Sandbergs Allé

R

Kiosk

i

Planning, Analyses & Economics

Terminal Campus Lindholmen & Chalmers Maritime Safety Centre

Registration, parallel session halls KA, KB, KC, coffee breaks, poster session

Landala kapell

Hugo Grauers Gata

SGI

Student & Education Office

Care Central

Buses 19,55

Hasselbla

Parallel session halls Pascal, MV:H12

Landalagatan

Microtechnology and Nanoscience

Student housing

Kemivägen

P Biology and Biological Engineering Chemistry and Chemical Engineering

Gibraltargatan

Ivec.

Opening and keynote lectures hall HA1, parallel session halls HA2, HA3

Holtermansgatan

SÅNGSVANEN

Student housing

P

R

Physics

Fysik gränd

R Physics

Fysik gärden

ORIGO

Student & Education Office

Kemi-gärden

R

Library

Student Centre

Stena Centre

Ascheberg sgatan

Trams 6,7,8,10,13
Buses 16,158,753

Chalmers Operations Support Reception

Chalmers platsen

Bus 55

Ruhan

Cremona Store

Palmstedtsalen

Teknolog-gärden

Olgas Trappor

Gustaf Dalénsalen

Origovägen

Skeppsgr.

Mathematical Sciences

Hörsalsvägen

Chalmers

Tvärgata

Buses 19,55

Chalmers also has facilities together with University of Gothenburg, and at Onsala Space Observatory, and on other locations in and around Gothenburg.

Lunch restaurant

R

Student Union

R

Restaurant

SSPA

Kiosk

Akademiska Hus

Industrial and Materials Science

Lecture Halls HA1-4

R

P

Information Board i

Parking P

Restaurant, Café R

Lecture Halls HB1-4

Gibraltar-vallen

P

Sven Hultins Gata

Architecture and Civil Engineering

Maskingränd

Hörsalsvägen

Rännvägen

Mechanics and Maritime Sciences

LINSEN

Space, Earth and Environment

Lecture Halls HC1-4

P

Mail & Transport Deliveries

Computer Science and Electrical Engineering

R

200 m

N

Feb 2017

Trams 7,10
Buses 16,158,753

Conference dinner Valand

Scandic Hotel Rubinen

Welcome reception Vasaparken

Conference venue Chalmers

Quality Hotel The Weaver

PROGRAM

Invited sessions are denoted with an "I" and contributed sessions are denoted with a "C". Notice the full version of the program with titles and abstracts is at the conference page.

Room names are given between parentheses.

MONDAY 19 JUNE

Opening at 13.00 in HA1-HA2

Keynote by Sofia Olhede 13.30-14.30 in HA1-HA2

Parallel sessions 15.00-16.30

I1	I2	C1	C2	C3	C4
Functional data analysis (KA)	**Percolation and related topics (KC)**	**Gaussian processes (KB)**	**Finance (Pascal)**	**Bayesian modelling (HA2)**	**AI 1 (HA3)**
Alessia Pini	Nina Gantert	Louise Kimpton	Vilhelm Niklasson	Javier Aguilar	Florian Frommlet
Vaidotas Characiejus	Daniel Ahlberg	Henrik Bengtsson	Erik Lindström	Aliaksandr Hubin	Olof Zetterqvist
Anton Rask Lundborg	Erik Broman	Sahoko Ishida	Alexander Herbertsson	Sofia Stroustrup	Oskar Allerbo
				Ida Scheel	Chiara Amorino

MONDAY 19 JUNE

Parallel sessions 17.00-18.30

I3	I4	I5	C5	C6	C7
Reinforcement learning (KA)	**Stochastic differential equations (KC)**	**Computationally intensive methods in biostatistics (KB)**	**Causality (Pascal)**	**Spatial point processes 1 (HA3)**	**Special topics in Statistics 1 (HA2)**
Alexandre Proutiere	Mark Podolskij	Eszter Lakatos	Maximilian Scholz	Ottmar Cronie	Krzysztof Bartoszek
Yassir Jedra	Thuan Nguyen	Magnus Neuman	Søren Wengel Mogens	Julia Jansson	Martin Schlather
Sadegh Talebi		Mattias Rantalainen	Shimeng Huang	Christophe Biscio	Karl Sigfrid
	Jean-François Chassagneux		Lucas Kook	Anne Marie Svane	Fredrik Lundvall Wollbraaten

Welcome Reception 19.30-21.30 in Universitetsplatsen 1 (entrance hall of the University of Gothenburg main building).
The welcome reception is kindly hosted in collaboration with the City of Gothenburg.

TUESDAY 20 JUNE

Keynote by Fred Espen Benth, 9.30-10.30 in HA1-HA2

Parallel sessions 11.00-12.30

I6	C8	C9	C10	C11	C12
Heavy tails / Extreme values (KA)	**Optimal design (KB)**	**Change point (HA2)**	**Bayesian computation (HA3)**	**Survival analysis (Pascal)**	**Probability (KC)**
Kirstin Strokorb	Evangelos Evangelou	Susanne Ditlevsen	Dennis Christensen	Thomas Matcham	Stefan Geiss
Chen Zhou	Maryna Prus	Per August Moen	Umberto Picchini	Céline Cunen	Gabija Liaudanskaite
Holger Rootzen	Henrik Imberg	Anica Kostic	Jimmy Olsson	Clara Bertinelli Salucci	Orimar Sauri
		Elias Erdtman	Henri Pesonen		

TUESDAY 20 JUNE

Parallel sessions 14.00-15.30

I7 **Stochastic models for evolution (KA)**	I8 **Multivariate Statistics (KC)**	C13 **Functional data (Pascal)**	C14 **Spatio-temporal models (HA2)**	C15 **Parameter inference for SDEs (HA3)**	C16 **Special topics in Statistics 2 (KB)**
Daniela Bertacchi Anton Wakolbinger Asger Hobolth	Krzysztof Podgorski Kristi Kuljus Stepan Mazur Katarzyna Filipiak	Mehdi Moradi Hiba Nassar Johan Strandberg	Christopher Dörr Malte Jahn Mike Pereira Henrik Ekström	Celia García-Pareja Predrag Pilipovic Marc Vaisband Petar Jovanovski	Matyas Barczy Torkel Erhardsson Marco Loog Denise Uwamariya

TUESDAY 20 JUNE

Parallel sessions 16.00-17.30

I9	I10	C17	C18	C19	C20
Likelihood-free inference (KA)	**Statistical modelling of infectious disease outbreaks (KC)**	**Spatial stats & Gaussian random fields (KB)**	**AI 2 (HA2)**	**Model selection (Pascal)**	**Filtering (HA3)**
Solveig Engbretsen		Erik Jansson	Lars Henry Berge Olsen	Sebastian Arnold	Alessandro Mastrototaro
Luigi Acerbi	Felix Günther	John Paige	Olle Häggström	Ingrid Dæhlen	Matti Vihola
Dennis Prangle	Geir Storvik	Johan Lindström	Claudio Meggio	Ivan Hejný	Cédric Travelletti
	Ganna Rozhnova	Geir-Arne Fuglstad	Väinö Yrjänäinen	Nils Lid Hjort	Håkon Gryvill

Poster session 17.30-19.30 in the foyer of Kemihuset (the same building where KA-KB-KC are)

WEDNESDAY 21 JUNE

Keynote by Janine Illian (*"Scandinavian Journal of Statistics Lecture"*) 9.30-10.30 in HA1-HA2

Parallel sessions 11.00-12.30

I11 Causal inference in complex data structures (KA)	I12 Gaussian processes on networks and graphs (KC)	C21 Epidemics & Neuronal networks (HA3)	C22 Time series (Pascal)	C23 Stochastic partial differential equations (KB)	C24 Random Graphs (HA2)
Shuangning Li Nicola Gnecco Dominik Rothenhaeusler	Jesper Møller Joel Oskarsson Alexander Simas	Tom Britton Vasilii Goriachkin Mikhail Shubin Mohamed El Khalifi	Vytaute Pilipauskaite Chandler Ross Niklas Ahlgren Mads Stehr	Thorben Pieper Andreas Petersson Annika Lang	Joel Danielsson Tiffany Yin Yuan Lo Mindaugas Bloznelis Cecilia Holmgren

WEDNESDAY 21 JUNE

Parallel sessions 14.00-15.30

I13	I14	I15	C25	C26	C27
Spatial point processes – modelling, estimation, and prediction (KB)	**Random graphs and related topics (KA)**	**Stochastic Finance (KC)**	**Local methods for functional data (HA3)**	**Computational statistics (HA2)**	**Regression and applications (Pascal)**
Jakob Gulddahl Rasmussen	Svante Janson	Sigrid Källblad	Helle Sørensen	Petter Mostad	Léna Gozé
Thordis Thorarinsdottir	Matas Šileikis	Giulia di Nunno	Simone Vantini	Alexander Freudenberg	Szymon Urbas
Tuomas Rajala	Tatyana Turova	Teemu Pennanen	Valeria Vitelli	Max Raner	Ingrid Hobæk Haff
			Niels Olsen	Miika Kailas	Vladimir Pastukhov

15.30-19.00 Free time (see the conference page for suggestions)

19.00-00.00 Conference dinner in Valand restaurant (Vasagatan 41), for those that are registered for the dinner.

THURSDAY 22 JUNE

Keynote by Jonas Peters 9.30-10.30 in HA1-HA2

Parallel sessions 11.00-12.30

I16	I17	I18	C28	C29	C30
Learning for stochastic differential equation models (KB)	**Probabilistic machine learning and AI (KA)**	**Random matrices (KC)**	**Spatial point processes 2 (HA2)**	**Latent variable modelling for the analysis of preference data (Pascal)**	**Special topics in Statistics 3 (HA3)**
Frank van der Meulen	Fredrik Lindsten	Taras Bodnar	Rasmus Waagepetersen		Gabriel Wallin
Stefan Sommer	Judith Bütepage	Alexey Onatskiy	Magnus Ekström	Matteo Ventura	Per Gösta Andersson
Frank Schäfer	Pierre-Alexandre Mattei	Antoine Maillard	Konstantinos Konstantinou	Ambra Macis	Janis Valeinis
			Diala Hawat	Francesco Amato	Christos Dimitrakakis
				Antonio D'Ambrosio	

Keynote by Peter Diggle (*"Swedish Statistical Society Lecture"*) 14.00-15.15 in HA1-HA2

Poster Prizes and Closing 15.15 in HA1-HA2

POSTER SESSION ON 20 JUNE at 17:30: LIST OF AUTHORS
(the full list with titles and abstracts is at the [conference page](#))

Reinis Alksnis

Kasper Bågmark

Elizabeth Baker

Sam Beaton

Reza Belaghi

Bayu Brahmantio

Timo Braun

Marc Corstanje

Johan de Aguas

Mara Delesa-Velina

Svitlana Drin

Oskar Eklund

Jonas Evaeus

Henrik Häggström

Henrik Imberg

Alexandra Jauhiainen

Natoya Jourdain

Hao Chi Kiang

Konstantinos Konstantinou

Vera Kvisgaard

Rolf Larsson

Klara Leffler

Marie Levakova

Karina Lilleborge

Gustav Lindwall

Alexander Mey

Vincent Molin

Philip Mostert

Ioanna Motschan

Helga Kristin Olafsdottir

Hannu Reittu

Axel Ringh

Nataliya Shchestyuk

Andrey Shternshis

Dana Sylvan

Selma Tabakovic

Johan Ulander

Emelyne Umunoza Gasana

Per Westerlund

Väinö Yrjänäinen

Shokoufa Zeinali