

Detailed programme

(In-person presenters in yellow)

Monday, June 21	
11:00 ->	Registration
12:00 - 12:45	Lunch
12:45 - 13:00	Opening
13:00 - 13:45	Keynote lecture
Room 1	Chair: Ingelin Steinsland
	Tilmann Gneiting (Heidelberg Institute for Theoretical Studies, Germany) <i>Isotonic Distributional Regression (IDR): Leveraging Monotonicity, Uniquely So!</i>
13:45 - 14:30	Keynote lecture
Room 1	Chair: Ingrid Glad
	Ingrid van Keilegom (KU Leuven, Belgium) <i>On a Semiparametric Estimation Method for AFT Mixture Cure Models</i>
14:30 - 15:00	Coffee break
15:00 - 16:00	Poster pitch session
16:00 - 17:00	Covid panel discussion
Room 1	Arnoldo Frigessi, Tom Britton, Solveig Engebretsen, Sharon Kuhlmann-Berenzon, Tuija Leino and Lasse Leskelä <i>The role of mathematics and statistics in the political and health political decisions in the covid crises</i>
17:00 - 18:00	Welcome reception at the conference venue
18:00 - 19:00	Poster session continues with breakout rooms

Tuesday, June 22	
9:00 - 10:30	I2: Causal learning
Room 1	Organizer and chair: Niels Richard Hansen.
	Ingeborg Waernbaum (Uppsala University, Sweden) <i>Properties of calibration estimators of the average causal effect - a comparative study of balancing approaches</i>
	Leonard Henckel (ETH Zurich, Switzerland) <i>Graphical tools for selecting efficient conditional instrumental sets</i>
	Lasse Petersen (University of Copenhagen, Denmark) <i>Combining the partial copula with quantile regression to test conditional independence</i>
9:00 - 10:30	I5: Modeling spatial data: porous materials, proteins, and network
Room 2	Organizer and chair: Aila Sarkka
	Sandra Barman (Lund University, Sweden) <i>Porous materials: spatial models of 3D geometries with specific global connectivity structures and new methods for capturing the connectivity</i>
	Louis Gammelgaard Jensen (Aarhus University, Denmark) <i>Semiparametric point process modeling of blinking artifacts in photoactivated localization microscopy</i>
	Mohammad Mehdi Moradi (Public University of Navarre, Spain) <i>Point patterns on linear networks: a focus on intensity estimation</i>
9:00 - 10:30	C1: Statistical learning and semi- and non-parametric methods - applications and theory
Room 3	Chair: Steffen Grønneberg
	Steffen Grønneberg (BI Norwegian Business School) <i>Non-parametric estimation of ordinal factor models</i>
	Riccardo De Bin (University of Oslo, Norway) <i>On the asymptotic behaviour of the variance estimator of a U-statistic</i>
	Øyvind Hoveid (Norwegian Institute of Bioeconomy Research) <i>Empirical analysis of average treatment effects: The minimum squared error IV-estimator</i>
	Reinis Alksnis (University of Latvia) <i>Two-sample Empirical Likelihood for quantile inference of weakly dependent processes</i>
	Janis Valeinis (University of Latvia) <i>A generalized smoothly trimmed mean estimator of location</i>
10:30 - 11:00	Coffee break

Tuesday, June 22	
11:00 - 12:30	I3: Network analysis
Room 1	Organizer and chair: Lasse Leskelä
	Maximilien Drevet (Inria Sophia-Antipolis, France) <i>Estimation of static community memberships from multiplex and temporal network data</i>
	Alex Jung (Aalto University, Finland) <i>Networked Federated Multi-Task Learning</i>
	Fanny Villers (Sorbonne Université, France) <i>Multiple testing of paired null hypotheses using a latent graph model</i>
11:00 - 12:30	C8: Epidemiology and medical statistics
Room 2	Chair: Emil Aas Stoltenberg
	Tom Britton (Stockholm University, Sweden) <i>Evaluating and optimizing COVID-19 vaccination policies: a case study of Sweden</i>
	Dongni Zhang (Stockholm University, Sweden) <i>Analysing the Effect of Test-and-Trace Strategy in an SIR Epidemic Model</i>
	Marcus Westerberg (Uppsala University, Sweden) <i>A discrete time filtered counting process model</i>
	Sören Möller (Odense University Hospital, Denmark) <i>Bland-Altman plots for more than two observers</i>
	Emil Aas Stoltenberg (BI Norwegian Business School) <i>Regression discontinuity and survival analysis</i>
11:00 - 12:30	C7: Spatial and spatio-temporal statistics I
Room 3	Chair: Ingelin Steinsland
	Umut Altay (Norwegian University of Science and Technology) <i>Accounting for Spatial Anonymization in Household Surveys</i>
	Silius M. Vandeskog (Norwegian University of Science and Technology) <i>Modelling extreme short-term precipitation with the blended extreme value distribution</i>
	Margrethe Kvale Loe (Norwegian University of Science and Technology) <i>Ensemble updating of categorical state vectors</i>
	Martin Outzen Berild (Norwegian University of Science and Technology) <i>Flexible Spatial Covariance Structures for 3D Gaussian Random Fields</i>
	Ingelin Steinsland (Norwegian University of Science and Technology) <i>Geostatistical modelling combining point observations and nested areal observations - A case study of annual runoff predictions in the Voss area</i>
12:30 - 13:30	Lunch

Tuesday, June 22	
13:30 - 14:30	I1: Model evaluation
Room 1	Organizer and chair: Thordis Thorarinsdottir
	Claudio Heinrich (Norwegian Computing Center) <i>Proper scoring rules for point processes</i>
	Jonas Wallin (Lund University, Sweden) <i>Locally scale invariant proper scoring rules</i>
13:30 - 14:30	I9: Opening the black box
Room 2	Organizer and chair: Martin Jullum
	Martin Jullum (Norwegian Computing Center) <i>Efficient Shapley value explanation through feature groups</i>
	Kary Främling (Umeå University, Sweden) <i>Why explainable AI should move from influence to contextual importance and utility</i>
	Homayun Afrabandpey (Nokia Technologies, Finland) <i>Model interpretability in Bayesian framework</i>
13:30 - 14:30	C2: Bayesian and computational statistics
Room 3	Chair: Aliaksandr Hubin
	The Tien Mai (University of Oslo, Norway) <i>Efficient Bayesian reduced rank regression using Langevin Monte Carlo approach</i>
	Janis Gredzens (University of Latvia) <i>Computational challenges of Empirical likelihood</i>
	Michail Spitieris (Norwegian University of Science and Technology) <i>Bayesian calibration of Arterial Windkessel model</i>
	Aliaksandr Hubin (University of Oslo, Norway) <i>Variational Bayes for inference on model and parameter uncertainty in Bayesian neural networks</i>
14:30 - 15:00	Coffee break

Tuesday, June 22	
15:00 - 16:00	C3: Applications, models and methods for high-dimensional and complex data I
Room 1	Chair: Eirik Myrvoll-Nilsen
	Yngvild Hamre (Norwegian University of Science and Technology) <i>Factor screening in non-regular two-level designs based on mean squared error</i>
	Riccardo Parviero (University of Oslo, Norway) <i>Adoption spreading on partially observed social graphs</i>
	Florian Beiser (SINTEF Digital, Norwegian University of Science and Technology) <i>Comparison of Ensemble-Based Data Assimilation Methods for Drift Trajectory Forecasting</i>
	Eirik Myrvoll-Nilsen (Potsdam Institute for Climate Impact Research, Germany) <i>Quantification of the dating uncertainties in Greenland ice core records</i>
15:00 - 16:00	C9: Statistical methods in ecology and natural resources I
Room 2	Chair: Sondre Hølleland
	Kwaku Peprah Adjei (Norwegian University of Science and Technology) <i>A Probabilistic Generating Process of Citizen Science Data: Modeling and Estimation of Parameters</i>
	Krzysztof Bartoszek (Linköping University, Sweden) <i>Central Limit Theorems for Ornstein–Uhlenbeck processes on Yule trees</i>
	Benoît Goze (Swedish University of Agricultural Sciences) <i>Model-based inference for abundance estimation using presence/absence data from large-area forest inventories together with covariate data from remote sensing</i>
	Juho Kettunen (University of Eastern Finland) <i>Joint modelling of the peatland vegetation cover using non-stationary multivariate Gaussian processes</i>
15:00 - 16:00	C6: Financial statistics
Room 3	Chair: Anders Løland
	Vilhelm Niklasson (Stockholm University, Sweden) <i>Market Sensitive Bayesian Portfolio Construction and Basel Backtesting using VaR and CVaR</i>
	Stepan Mazur (Örebro University School of Business, Sweden) <i>Flexible Fat-tailed Vector Autoregression</i>
16:00 ->	Årsmøte NSF (Yearly meeting in the Norwegian Statistical Association)
Evening	Trip to Storsteinen 421 m above sea level (by cable car or walking)

Wednesday, June 23	
9:00 - 10:30	Sverdrup prizes awarded by the Norwegian statistical association
Room 1	Chair: Henning Omre
	Award winner I: Young scientist with best research paper
	Award winner II: Excellent representative of the field of statistics
10:30 - 11:00	Coffee break
11:00 - 12:30	I7: Teaching and communicating statistics
Room 1	Organizer and chair: Mette Langaas
	Thea Bjørnland (Norwegian University of Science and Technology) <i>Developing an introductory statistics course for engineering students at NTNU</i>
	Sam Clifford (London School of Hygiene and Tropical Medicine, UK) <i>Project-based learning for statistics in practice – collaboration, computation, communication</i>
	Mine Çetinkaya-Rundel (University of Edinburgh, UK) <i>The art and science of teaching data science</i>
11:00 - 12:30	I4: Biostatistics
Room 2	Organizer and chair: Iain Johnston
	Matti Pirinen (University of Helsinki, Finland) <i>Variable selection using summary statistics</i>
	Alvaro Köhn-Luque (University of Oslo, Norway) <i>Deconvolution of drug-response heterogeneity in cancer cell populations</i>
	Owen Thomas (University of Oslo, Norway) <i>LilleBror for misspecification-robust likelihood free inference in high dimensions</i>
11:00 - 12:30	C10: Simulation-based inference
Room 3	Organizer and chair: Umberto Picchini
	Samuel Wiqvist (Lund University, Sweden) <i>Sequential Neural Likelihood and Posterior Approximation: Inference for Intractable Probabilistic Models via Direct Density Estimation</i>
	Anna Wigren (Uppsala University, Sweden) <i>Parameter elimination in particle Gibbs sampling</i>
	Gilles Louppe (University of Liège, Belgium) <i>Neural Ratio Estimation for Simulation-Based Inference</i>
	Irene Tubikanec (Johannes Kepler University Linz, Austria) <i>Spectral density-based and measure-preserving ABC for partially observed diffusion processes</i>
	Umberto Picchini (Chalmers University of Technology and University of Gothenburg, Sweden) <i>Guided sequential schemes for intractable Bayesian models</i>
12:30 - 13:30	Lunch

Wednesday, June 23	
13:30 - 14:30	I6: Statistics in forestry
Room 1	Organizer and chair: Lauri Mehtätalo
	<p>Juha Lappi (University of Eastern Finland) <i>Between-group and within group effects and intra-class correlation</i></p> <p>Mari Myllymäki (Natural Resources Institute Finland (Luke)) <i>Nonparametric graphical tests of significance for the functional general linear model with application to forestry data</i></p> <p>Lauri Mehtätalo (Natural Resources Institute Finland (Luke)) <i>Finding hidden trees in remote sensing of forests by using stochastic geometry, sequential spatial point processes and the HT-like estimator</i></p>
13:30 - 14:30	I8: Recent advances in causal inference
Room 2	Organizer and chair: Juha Karvanen
	<p>Tetiana Gorbach (Umeå University, Sweden) <i>Contrasting identification criteria of average causal effects: Asymptotic variances and semiparametric estimators</i></p> <p>Niklas Pfister (University of Copenhagen, Denmark) <i>Stabilizing variable selection and regression</i></p> <p>Juha Karvanen (University of Jyväskylä, Finland) <i>Identifying causal effects via context-specific independence relations</i></p>
13:30 - 14:30	C4: Statistics in art
Room 3	Chair: Nils Lid Hjort
	<p>Rolf Larsson (Uppsala University, Sweden) <i>Discrete Factor Analysis, with an example from Musicology</i></p> <p>Kajsa Møllersen (UiT The Arctic University of Norway) <i>Numbers, tables and statistics</i></p> <p>Nils Lid Hjort (University of Oslo, Norway) <i>In which order did Platon write Critias, Philebus, Politicus, Sophist, and Timaeus?</i></p>
14:30 - 15:00	Coffee break

Wednesday, June 23	
15:00 - 16:30	C7: Spatial and spatio-temporal statistics II
Room 1	Chair: Anders Løland
	Adil Yazigi (University of Eastern Finland) <i>Modelling Forest Tree Data Using Sequential Spatial Point Processes</i>
	Mikko Kuronen (Natural Resources Institute Finland) <i>Point process models for sweat gland activation observed with noise</i>
	Christian Hirsch (University of Groningen, the Netherlands) <i>Maximum likelihood calibration of stochastic multipath radio channel models</i>
	Susan Anyosa (Norwegian University of Science and Technology) <i>Methods for sampling designs based on the integrated Bernoulli variance generalised of spatial presence/absence data</i>
	Haakon Bakka (University of Oslo, Norway) <i>A natural spatio-temporal extension of Gaussian Matèrn fields</i>
15:00 - 16:00	C5: Biostatistics
Room 2	Chair: Ingrid Glad
	Stephen Coleman (University of Cambridge, UK) <i>Consensus clustering for Bayesian mixture models</i>
	Erica Ponzi (University of Oslo, Norway) <i>Exploring variance contributions in multiple high-dimensional data sources</i>
	Pål Vegard Johnsen (Norwegian University of Science and Technology) <i>Genome-wide association studies with imbalanced binary responses</i>
15:00 - 16:00	C9: Statistical methods in ecology and natural resources II
Room 3	Chair: Alf Harbitz
	Magnus Ekström (Swedish University of Agricultural Sciences) <i>Estimating density from presence/absence data in clustered populations</i>
	Jorge Sicacha-Parada (Norwegian University of Science and Technology) <i>A modeling framework for integrating Citizen Science data and professional surveys in ecology: A case study on risk of dead of birds caused by powerlines</i>
	Pedro Nicolau (UiT The Arctic University of Norway) <i>Population synchrony of gray-sided voles in northern Norway</i>
	Alf Harbitz (Institute of Marine Research, Norway) <i>Classification of cod stocks by image analysis of otoliths – a comparison of Fisher discriminant analysis of contour features with a Deep Learning approach</i>

Wednesday, June 23	
16:00 - 17:00	C3: Applications, models and methods for high-dimensional and complex data II
Room 2	Chair: Sondre Hølleland
	<p>Øystein Sørensen (University of Oslo, Norway) <i>Generalized additive latent variable modeling</i></p> <p>Dace Petersone (University of Latvia) <i>Empirical likelihood clustering for noisy data</i></p> <p>Stanislav Anatolyev (CERGE-EI, Czech Republic) <i>Testing many restrictions under heteroskedasticity</i></p> <p>Zhenyu Zhang (University of California, US) <i>Large-scale inference of correlation among mixed-type biological traits with Phylogenetic multivariate probit models</i></p>
16:00 - 17:00	C11: New challenges for, and extensions of hidden Markov models and their applications
Room 3	Organizer and chair: Gudmund Horn Hermansen
	<p>Gudmund Horn Hermansen (University of Oslo, Norway) <i>A Bayesian hidden Markov model for the intensity of violence in internal armed conflicts</i></p> <p>Xia Wang (University of Cincinnati, US) <i>Hidden Markov Model in Multiple Testing on Dependent Count Data</i></p> <p>Jonathan P. Williams (North Carolina State University, US) <i>A Bayesian hidden Markov model framework for monitoring and diagnosing critically ill hospital patients</i></p>
20:00	Conference dinner at Clarion Hotel The Edge

Thursday, June 24	
9:00 - 9:45	Keynote lecture
Room 1	Chair: Filippo M. Bianchi
	Anders Nielsen (Technical University of Denmark) <i>Non-standard model building and model validation exemplified by fish stock assessment</i>
9:45 - 10:30	Keynote lecture
Room 1	Chair: Filippo M. Bianchi
	Marta Blangiardo (on behalf of the RSS-Turing lab, UK) <i>A Bayesian spatio-temporal model for integrating multiple sources of covid burden</i>
10:30 - 11:00	Coffee break
11:00 - 11:45	SJS-lecture
Room 1	Chair: Hans Julius Skaug
	Yee Whye Teh (University of Oxford and DeepMind, UK) <i>On the relationship between adaptive Monte Carlo and online learning</i>
11:45 - 12:00	Closing

Posters presented on June 21

Pitch session at 15:00, breakout rooms at 18:00

1. **Hao Chi Kiang** (Linköping University, Sweden)
Computing the fixed-point densities of phylogenetic tree balance indices
2. **Haris Fawad** (University of Oslo, Norway)
Cumulative Hazard estimators
3. **Svetlana Aniskevich** (University of Latvia)
Change point detection in environmental data using quantile regression
4. **Aurora Hofman** (Norwegian University of Science and Technology)
A shared parameter model for accounting for drop-out not at random in a predictive model for hypertension using the HUNT study
5. **Emilie Ødegård** (University of Oslo, Norway)
Lower-dimensional Bayesian Mallows Model (lowBMM) for variable selection applied to gene expression data
6. **Emma S. Skarstein** (Norwegian University of Science and Technology)
A joint Bayesian framework for measurement error and missing data
7. **Fredrik Nevjen** (Norwegian University of Science and Technology)
Issues that complicate the model selection process when determining neuronal tuning using event count models
8. **Janne Aspheim** (Norwegian University of Science and Technology)
Marker-based estimation of additive genetic variance using dimension-reduction techniques – adaptations from animal breeding adapted to wild study systems using a Bayesian framework
9. **Martin Bjerke** (Norwegian University of Science and Technology)
A spline-based latent variable model, with applications to neural spike train data
10. **Thomas Minotto** (University of Oslo, Norway)
Detecting statistical interactions in immune receptor datasets
11. **Yaolin Ge** (Norwegian University of Science and Technology)
Autonomous Oceanographic Sampling Using Excursion Sets and Expected Integrated Bernoulli Variance