

Program STRATOS 2024 Lorentz workshop:

‘STRATOS accelerated guidance for real world data analysis’

Note: this is a live document and will be updated regularly

Orange and **yellow**: plenary sessions (all 55 participants)

Yellow: open to online participants

Green: parallel working sessions (10-15 participants per theme)

Blue: small group work (5-7 participants)

Monday 16th Sept

9.00-10.30 <i>Welcome</i> 9.00-9.45 walk-in 9.45-10.00 Welcome from Lorentz center 10.00-10.30 Introduction from organizers 10.00-10.15 STRATOS – short overview (Willi Sauerbrei) 10.15-10.30 Aims for the week (Els Goetghebeur/Nan van Geloven) <p style="text-align: right;">Plenary room</p>
10.30-11.30 <i>Pitches on key themes</i> 10.30-10.43 Theme 4: Developing an open-source case study dataset (Hein Putter/Kate Lee) 10.43-10.57 Theme 1: Combining Machine Learning with Statistical Methods (Aris Perperoglou/Maarten Van Smeden/Anne De Hond) 10.57-11.02 Short break 11.02-11.16 Theme 2: Estimands and time-to-event analysis (Saskia Le Cessie/Kelly Van Lancker) 11.16-11.30 Theme 3: Simulating and synthesizing data for biostatistical methods development, evaluation and dissemination (Georg Heinze/Tim Morris/Sabine Hoffmann) Chair: Pamela Shaw <p style="text-align: right;">Plenary room</p>
11.30-12.30 <i>Combining Machine Learning with Statistical Methods*</i> 11.30-12.00 Stijn Vansteelandt (Ghent University, BE) 20'+10' 'Causal machine learning' 12.00-12.30 Maarten Van Smeden (UMC Utrecht, NL) 20'+10' 'Predictive machine learning' Discussant Lisa McShane (National Cancer Institute, USA) Chairs: Aris Perperoglou (GSK, UK) and Anne de Hond (UMC Utrecht, NL) <p style="text-align: right;">Plenary room</p>
12.30-14.00 Lunch <p style="text-align: right;">Across the street in Snellius building</p>
14.00-15.00 TGs discuss and distribute their ideas for the key themes <p style="text-align: right;">Each TG in a separate room</p>
15.00-15.30 Break
15.30-17.30 Parallel working sessions on key themes Theme 1: working on X and Y Theme 2: working on X and Y Theme 3: Neutral phase III and phase IV studies Laurence Freedman: Measurement error correction and splines Sabine Hoffmann: Complex structures of measurement error in occupational epidemiology Theme 4: working on X and Y Inter-TG project XX <p style="text-align: right;">Each theme in a separate room</p>
17.30-19.00 Welcome Reception

*also for online participants

Tuesday 17th Sept

9.00-10.00 <i>Estimands and time-to-event analysis*</i>	
9.00-9.20	Kelly Van Lancker (Ghent University, BE) 15'+5' 'Estimands in clinical studies'
9.20-9.40	Malka Gorfine (Tel Aviv University, IL) 15'+5' 'Estimands in illness-death settings'
9.40-10.00	Nan Van Geloven (Leiden UMC, NL) 15'+5' 'Prediction estimands'
Chair: Saskia le Cessie (Leiden UMC,NL) Plenary room	
10.00-10.30 Break	
10.30-11.00 <i>Stratos-wide topics</i>	
10:30 - 10:40 SAPI - SAP for initial data analysis (Huebner, Heinze, Schmidt)	
10:40 - 10:50 P-values paper (Abrahamowicz, Carpenter)	
10:50 - 11:00 Issues to clarify in some panels (Sauerbrei)	
Chair: Pamela Shaw Plenary room	
11.00-12.30 Parallel working sessions on key themes	
Theme 3: Diagnostics for phase IV methodological research with an example by Tim Morris	
Each theme in a separate room	
12.30-14.00 Mentor-mentee Lunches Across the street in Snellius building	
14.00-15.00 TG-specific progress and completion of existing projects	Or: Continue on key themes
15.00-15.30 Break	
15.30-16.30 TG-specific progress and completion of existing projects	
Each TG in separate room	
16.30-18.00 Short presentations from each TG + panels (open science, visualization, simulation, others)	
Plenary room	
18.00-19.00 TG-specific progress and completion of existing projects	
Each TG in separate room	

*also for online participants

Wednesday 18th Sept

9.00-10.00 <i>Simulating and synthesizing data for biostatistical methods development, evaluation and dissemination*</i>	
9.00-9.20	Georg Heinze (Medical University of Vienna, AT) 15'+5' 'Phases of methodological development in biostatistics'
9.20-9.40	Tim Morris (University College London, UK) 15'+5' 'Structured planning and reporting of simulation studies'
9.40-10.00	Sabine Hoffmann (LMU Munich, DE) 15'+5' 'Making biomedical research data publicly available while protecting confidentiality'
Chair: Willi Sauerbrei (University of Freiburg, DE) Plenary room	
10.00-10.30 Break	
10.30-11.00 <i>Stratos-wide topics</i>	
10:30 - 10:40	Small data (Harald Binder)
10:40 - 10:50	Statistical methods and machine learning techniques: powerful tools for high-dimensional data (Lisa McShane)
10:50 - 11:00	Level 1 paper in statistical series (Sauerbrei, Collins)
Chair: Pamela Shaw Plenary room	
11.00-12.30 Parallel working sessions on key themes	
TG1-TG7 collaborate on missing data and intercurrent events	
Theme 3: Discussion on the generation of synthetic data (Sabine Hoffmann)	
Each theme in a separate room	
12.30-14.00 Lunch	
(across the street in Snellius building)	
14.00-15.00	Or: Continue on key themes
TG-specific progress and completion of existing projects	
15.00-15.30 Break	
15.30-17.30 TG-specific progress and completion of existing projects	
Each TG in separate room	
17.30-19.00 <i>Debate: 'Dissemination of statistical guidance to applied researchers'*</i>	
Panel members: Lisa McShane (National Cancer Institute, USA), Jonathan Bartlett (LSHTM, UK), and others	
Chair: ? Plenary room	
19.00-20.00 Travel to restaurant	
20.00 Workshop Dinner at "Verboden Toegang Restaurant Artikel 461"	
Kaiserstraat 7, Leiden	

*also for online participants

Thursday 19th Sept

<p>9.00-10.00 <i>Developing an open-source case study dataset*</i></p> <p>9.00-9.20 Katharina Krüselmann (Leiden University, NL) and Jim Achterberg (Leiden UMC, NL) <i>'Project SENSYN: Making sensitive data reusable through synthetic data generation'</i> 15'+5'</p> <p>9.20-9.40 Jörg Drechsler (Institute for Employment Research, Nuremberg, DE) <i>'Synthetic data for complex survey sampling designs – An illustration using data from the U.S. Economic Census'</i> 15'+5'</p> <p>9.40-10.00 STRATOS discussion on case study data shared across topic groups (15'+5')</p> <p>Chairs: Hein Putter (Leiden UMC, NL) and Katherine Lee (Melbourne Children's Trial Centre, AUS)</p> <p style="text-align: right;">Plenary room</p>	
<p>10.00-10.30 Break</p>	
<p>10.30-11.00 <i>Stratos-wide topics</i></p> <p>10:30 - 10:40 Glossary (Martin Boeker)</p> <p>10:40 - 10:50 Video Series (Michael Wallace)</p> <p>10:50 - 11:00 STRATOS overview paper' (Sauerbrei, Carpenter)</p> <p>Chair: Pamela Shaw</p> <p style="text-align: right;">Plenary room</p>	
<p>11.00-12.30 Parallel working sessions on key themes</p> <p style="text-align: right;">Each theme in a separate room</p>	
<p>12.30-14.00 Lunch</p> <p style="text-align: right;">Across the street in Snellius building</p>	
<p>14.00-15.00 TG-specific progress and completion of existing projects</p>	<p>Or: Continue on key themes</p>
<p>15.00-15.30 Break</p>	
<p>15.30-19.00 TG-specific progress and completion of existing projects</p> <p style="text-align: right;">Each TG in separate room</p>	

*also for online participants

Friday 20th Sept

9.00-10.00 *Plenary feedback from parallel working groups on key themes*

9.00- 9.15 Theme 1: Combining Machine Learning with Statistical Methods (Aris Perperoglou/Maarten Van Smeden/Anne De Hond)

9.15- 9.30 Theme 2: Estimands and time-to-event analysis (Saskia Le Cessie/Kelly Van Lancker)

9.30- 9.45 Theme 3: Simulating and synthesizing data for biostatistical methods development, evaluation and dissemination (Georg Heinze/Tim Morris/Sabine Hoffmann)

9.45-10.00 Theme 4: Developing an open-source case study dataset (Hein Putter/Kate Lee)

Chair: ?

Plenary room

10.30-12.30 What have we learned / what are next steps (TGs, panels) / action points / next meetings?

Chair: James Carpenter

Plenary room

12.30-14.00 Lunch

Across the street in Snellius building

End