Data Science in Action

Welcome at the Wageningen Data Science Week, *'Data Science in Action'*. We are happy to show you our expertise on applications of Data Science in researching Plant, Animal, Human Nutrition & Health, Environment, and Society and how it can benefit your company or research goal.

During this week we present poster-pitches from WUR researchers on their research and challenges in data science. This will provide a wonderful opportunity to exchange scientific expertise in data science.

The interactive programme will give you the opportunity to visualise, discuss and truly experience innovation. You will have an unique chance to explore and strengthen your contacts with our experts and other innovation stakeholders.

We hope that you enjoy our Data Science Week, and get in action, together!

With kind regards,
The Organising committee

Ioannis Athanasiadis, Chantal Hukkelhoven, Willem Jan Knibbe, Yannick van Gelder

Monday 3 February

09.00 – 17.00
Crash course Machine Learning voor beginners
Aalt-Jan van Dijk and Gert Kootstra

This course includes various aspects of machine learning. Examples are decision trees, linear regression, neural networks, Brix prediction and casus regression.

The maximum number of participants is 40. If you have been accepted, you will receive a confirmation of admission by email. Please bring your own case. A lunch will be provided around 12.00.

09.00 - 17.00
R for Data Science
Ioannis Baltzakis en Alejandro Morales Sierra from R Academy

9.00 – 12.00 R for data science
13.00 – 17.00 From messy data to interactive dashboards with R

In the crash course morning session the registered participants will learn the basics of using R for data science. In the afternoon we will follow along a workflow that will take them from messy dataset to an interactive report. Reports are an integral part of the data science workflow as they can provide quick and valuable insights to your data, for data driven decision making.

The maximum number of participants of the afternoon workshop is 35. If you have been selected, you will receive a confirmation of admission by email. Participating the lecture in the morning is obliged for this course. A lunch will be provided for all participants of the afternoon session.

Tuesday 4 February

09.00 – 21.00
FAIR Data Sprint
Erik van den Bergh, Wageningen University & Research

The FAIR data sprint will be a Bring-Your-Own-Data event where the goal will be to register and store FAIR data. During the sprint, participants will get hands-on experience in transforming their own data into FAIR data, learning about the standards and practical techniques along the way. Working together in small groups will allow participants to benefit from group knowledge to contribute to the goal of the FAIR data sprint: To submit as much FAIR data as possible in 12 hours!

The maximum number of participants is 40. If you have been selected, you will receive a confirmation of admission by email. Lunch, dinner, drinks and bites will be provided during the day.

10.00 – 17.00
Landelijk Coordinatiepunt Research Data Management (LCRDM)
Jacquelijn Ringersma, Wageningen University & Research

Landelijk Coördinatiepunt Research Data Management

'Digital/Data Competence Centers: running for Value Creation' registration by LCRDM

'We will discuss the national initiatives to strengthen the role of Data Stewardship and Competence Centers both for better research and for harmonization of research proposals.'

Wednesday 5 February

Morning programme

09.30 – 10.00 Registration
10.00 – 11.15 'The Overview'
10.00 Grand Opening | *Jack van der Vorst, WUR*
10.15 Data Commons in Action! | *Marleen Stikker, WAAG, Technology & Society*
10.35 Environmental Software Systems *Steven Frysinger, James Madison University*
10.55 The IBM Way *Dan Wolfson, Bruno da Costa Flach, IBM*
11.15 – 11.45 Coffee break + poster exhibition
11.45 – 13.00 'Applications and Alliances'
11.45 Triple Digital Twins | *three pitches from WUR investment theme Digital Twins*
12.15 Connecting to OnePlanet *Marcel Zevenbergen, IMEC*
12.30 The National Economic Perspective
12.45 The Netherlands AI Coalition *Sander Ruiter, ECP*
13.00 – 14.00 Lunch

Afternoon programme

Please choose between the following parallel sessions;

✱ **14.00 – 16.00** WUR Campus Data Science Exchange: Poster pitches

✱ **14.00 – 16.00** Workshop Smart Agri Hubs | *Sjaak Wolfert* The maximum number of participants is 50. If you have been selected, you will receive a confirmation of admission by email.

✱ **14.00 – 16.00** 'Data Science in Action'
14.00 Data Science benchmarking with applications to Environmental Science *Martha Larson, RU*
14.20 Human Data Science *Daniel Oberski, UU*
14.40 Data Science in Action | *three pitches from Data Management, Infrastructure, Education resulting in Challenges for Data Science in Action*
15.00 Panel Discussion: How to Answer Challenges in Data Science in an AI Lab? *All Keynote Speakers*
15.30 ICAI Labs – 'What, why, how' *Maarten de Rijke, ICAI*

Early evening programme

16.00 – 18.30 Drinks & Bites (& Posters)
19.00 – 20.30 ISESS Conference diner *open to ISESS participants, and contributors to the programme*

Thursday 6 February

10.00 – 17.00 ISESS Conference *only for ISESS participants*
17.00 – 18.00 Drinks and Bites *only for ISESS participants*
18.00 – 20.00 Small Meal and Drinks *only for participants in the documentary*
18.00 – 20.00 Documentary: Data science pioneers: Conquering the Next Frontier *Lotte de Vos, WUR*

With humour and humanity, this documentary presents passionate data scientists driving us towards technical revolution.

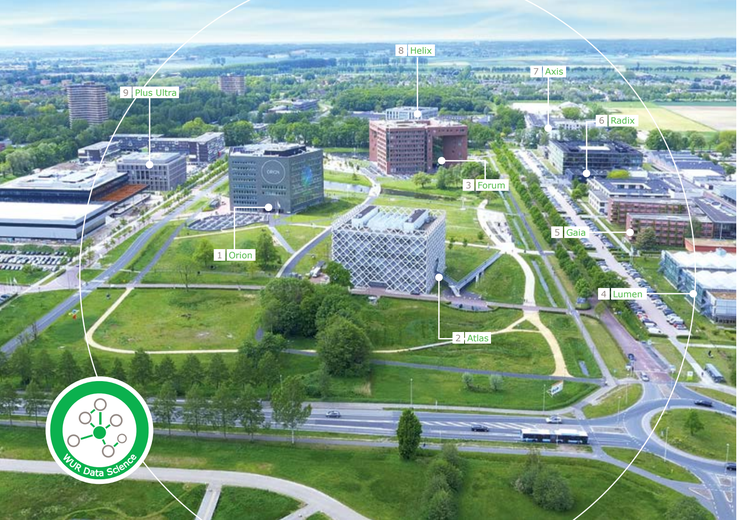
Friday 7 February

09.00 – 12.00 ISESS Conference *only for ISESS participants*
12.00 – 13.00 Closing lunch | *only for ISESS participants*

More information on www.wur.eu/data

This Wageningen Data Science Week is organized by the Wageningen Data Competence Center (WDCC) in collaboration with the International Symposium on Environmental Software Systems (ISESS).

'The Wageningen Data Science Week endorses the principles of Open Science and Education'



Programme Data Science Week

8.30	9.00	9.30	10.00	10.30	11.00	11.30	12.00	12.30	13.00	13.30	14.00	14.30	15.00	15.30	16.00	17.00	18.00	18.30	19.00	19.30	20.00	20.30

Monday 3 February

08.30 **Coffee & Tea** G	09.00 – 17.00 **Crashcourse Machine Learning** PC3031 09.00 – 12.00 **R for data science** PC3032			10.30 **Coffee & Tea** G	**Continue course** **Continue course**		12.00 – 12.45 **Lunch** G		**Continue course** 13.00 – 17.00 | **From Messy data to interactive dashboards with R** PC3032				15.00 **Coffee & Tea** G	**Continue course** **Continue course**		17.00 - 18.00 **Drinks & Bites** G					

Tuesday 4 February

	09.00 **Coffee & Tea** G	09.00 – 21.00 **FAIR Data Sprint** C3020			11.00 **Coffee & Tea**	**Continue event**		12.00 – 13.30 **Lunch** G		**Continue event**					17.00 - 18.00 **Drinks** G	**Continue event**		18.30 **Pizza** G	**Continue event**			
			10.00 **Coffee & Tea** G	10.30 – 12.30 **LCRDM** 1005/1040						13.30 – 14.30 **Bijeenkomst in platte zaal** 1032		14.30 – 15.00 **Poster exhibition** G	15.00 – 16.15 **Plenair** 1005/1040									

Wednesday 5 February

	09.00 – 18.00 **ORCID stand** G																					
	09.00 **Coffee & Tea** G		10.00 – 11.15 **The Overview** 1005/1040		11.15 - 11.45 **Coffee,Tea & Poster exhibition** G		11.45 – 13.00 **Applications and Alliances**		13.00 – 14.00 **Lunch** G	**Choose**	14.00 – 16.00 **WUR Campus Data Science Exchange** * BG 14.00 – 16.00 **Workshop Smart Agri Hubs** * 1005/1040 14.00 – 16.00 **WUR Data Science in Action** * 1005/1040				16.00 - 18.30 **Drinks & Poster exhibition** G			19.00 – 20.30 **Conference dinner ISSES** HOTEL DE WERELD			

Thursday 6 February (only for ISESS participants)

			10.00 – 17.00 **ISESS Conference** 1005/1040					12.00 – 12.45 **Lunch** G		**Continue Conference**						17.00 – 18.00 **Drinks and Bites** G		18.00 – 20.00 **Small Meal and Drinks** (only for participants in the documentary) G 18.00 – 20.00 **Documentaire: Data science pioneers: Conquering the Next Frontier** SPOT					

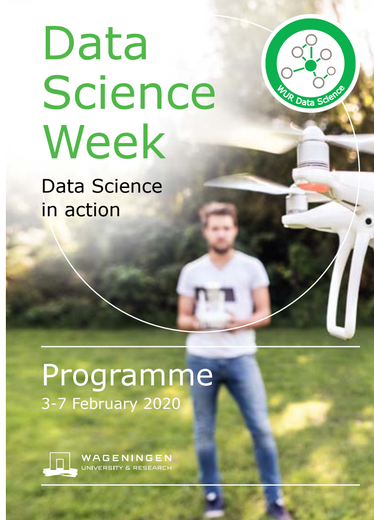
Friday 7 February (only for ISESS participants)

	09.00 **Coffee & Tea** G	09.30 – 12.00 **ISESS Conference** 1005/1040		10.40 - 11.00 **Coffee & Tea** G	**Continue Conference**		12.00 – 13.00 **Closing lunch** G															

* See full programme AB1234 Room number 1005/1040 Waaierzaal G Ground floor SPOT Cafe

Data Science Week

Data Science in action



Programme

3-7 February 2020

WAGENINGEN UNIVERSITY & RESEARCH