

OVERVIEW

This STFC-funded school will provide PhD students that are active in data intensive science additional skills to support their research, help them make industry placements a success and provide advice concerning possible career pathways in industry. The event consists of hands-on workshops, plenary talks, group discussions and evening events.

COVID-19

Due to the current situation around COVID-19, the decision has been made to hold this STFC School as an online event. The main program will follow closely the one that was scheduled to take place in Liverpool which includes workshops, an interactive poster session and live astronomy.

ZOOM

The sessions of the LIV.DAT STFC School on Data Intensive Science will be conducted via the Zoom videoconferencing tool. To connect, use Meeting ID **919 0318 9993** with passcode **LIV.DAT_2020**, or click the direct link: <https://liverpool-ac-uk.zoom.us/j/91903189993?pwd=QWJSaGtldTNwM2VkMHPkLZnhTYVdLUT09>

NB. Please do not post these details publicly.

SLACK

To get the latest updates and chat to the organisers as well attendees, we have created a channel in Slack. You will receive an invitation email to create an account and to join the LIV.DAT channel.

STFC School on Data Intensive Science

12-16 October 2020, Liverpool, UK



SCHOOL AGENDA

| Time | Monday 12 October | Tuesday 13 October | Wednesday 14 October | Thursday 15 October | Friday 16 October 2020 |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 09:00 | 9:00 Welcome and Introduction <i>Professor Carsten Welsch and Professor Philip James</i> | 9:00 Talk: Human-aware AI <i>Professor Paulo Lisboa</i> | 9:00 Talk: Making data work for you <i>Dr Louise Butcher</i> | 9:00 Careers in data science – Case studies | 9:00 Kaggle competition <i>Dr Stephen Farry</i> |
| 09:15 | 9:15 Talk: No Silver Bullet -- Pitfalls and Limitations in Machine Learning <i>Dr Kurt Rinnert</i> | | | | |
| 10:00 | 10:00 Break | 10:00 Break | 10:00 Break | 10:00 Break | |
| 10:30 | 10:30 Parellel Session: ML/AI 1 - Introduction to ML <i>Meirin Oan Evans</i> 2 - HEP NN training <i>Prof Dr Gregor Kasieczka</i> 3 - Scikit/Keras <i>Prof Adrian Bevan</i> | 10:30 Parallel Session: Data Analysis 1 - Preparation of large datasets for machine learning <i>Dr. Isabell Melzer-Pellmann</i> 2 - Big Data Python ecosystem for HEP <i>Dr Eduardo Rodrigues</i> 3 - Demystifying "Big Data" <i>Prof Andy Newsam</i> | 10:30 Parallel Session: Distributed programming 1 - Virtual universes vs. the real thing <i>Prof Ian McCarthy & Dr Andreea Font</i> 2 - Git Demystified <i>Dr Mark Dawson</i> | 10:30 Parallel Session: Project Management <i>Fistral Training and Consultancy Ltd</i> | |
| 12:30 | 12:30 Break | 12:30 Break | Free afternoon | 12:30 Break | 12:15 A student's placement experience - Alex Hill |
| 13:00 | | | | | |
| 13:30 | 13:30 Parellel Session: ML/AI (continued) 1 - Introduction to ML <i>Meirin Oan Evans</i> 2 - HEP NN training <i>Prof Dr Gregor Kasieczka</i> 3 - Scikit/Keras <i>Prof Adrian Bevan</i> | 13:30 Parallel Session: Data Analysis (continued) 1 - Preparation of large datasets for machine learning <i>Dr. Isabell Melzer-Pellmann</i> 2 - Big Data Python ecosystem for HEP <i>Dr Eduardo Rodrigues</i> 3 - Demystifying "Big Data" <i>Prof Andy Newsam</i> | | | 13:30 Parallel Session: International Collaboration <i>Fistral Training and Consultancy Ltd</i> |
| 15:30 | Break | Break | | Break | |
| 15:45 | 15:45 Poster Presentations | 15:45 Poster Presentations | | | |
| 16:00 | Session 1 + 2 | Session 3 + 4 | | 16:00 Industry Careers Workshop | |
| 17:00 | | 17:00 Break | | Break | |
| 18:00 | | | | 18:20 Online Escape Room | |
| 19:00 | | 19:00 Public Talk: Options and Opportunities for Health Data Science <i>Professor Andrew Morris</i> | | | |
| 20:00 | | | 20:00 Live Astronomy with the Liverpool Telescope 2 <i>Dr Chris Copperwheat</i> | | |

ZOOM GUIDE

If you don't have the Zoom client installed or available, please go to <https://liverpool-ac-uk.zoom.us/j/91903189993>.

The webpage will prompt you to download or launch the Zoom client, but you can also join the conference through your web browser by dismissing the popup window and clicking "join from your browser". After entering the conference **ID 919 0318 9993** with your full name and the access password **LIV.DAT_20**, you will be connected to the meeting. This meeting will remain active for the duration of the entire School and are the virtual meeting place where all School's activities will take place. Details of your audio and camera connection can be adjusted in the bottom left corner.

NB. *For School' participants we recommend to register for a Zoom account using the email address used to register for this School. This will help facilitate the Poster Sessions which utilize Breakout Rooms.*

PUBLIC LECTURE

On **Tuesday 13 October at 19:00** the Public Lecture on *Options and Opportunities for Health Data Science* takes place via a Zoom Webinar using different connection details to the Zoom meeting listed above.

Register via:

<https://indico.ph.liv.ac.uk/event/178/>

CONTACT

In case of any queries and/or issues during the duration of the School contact:

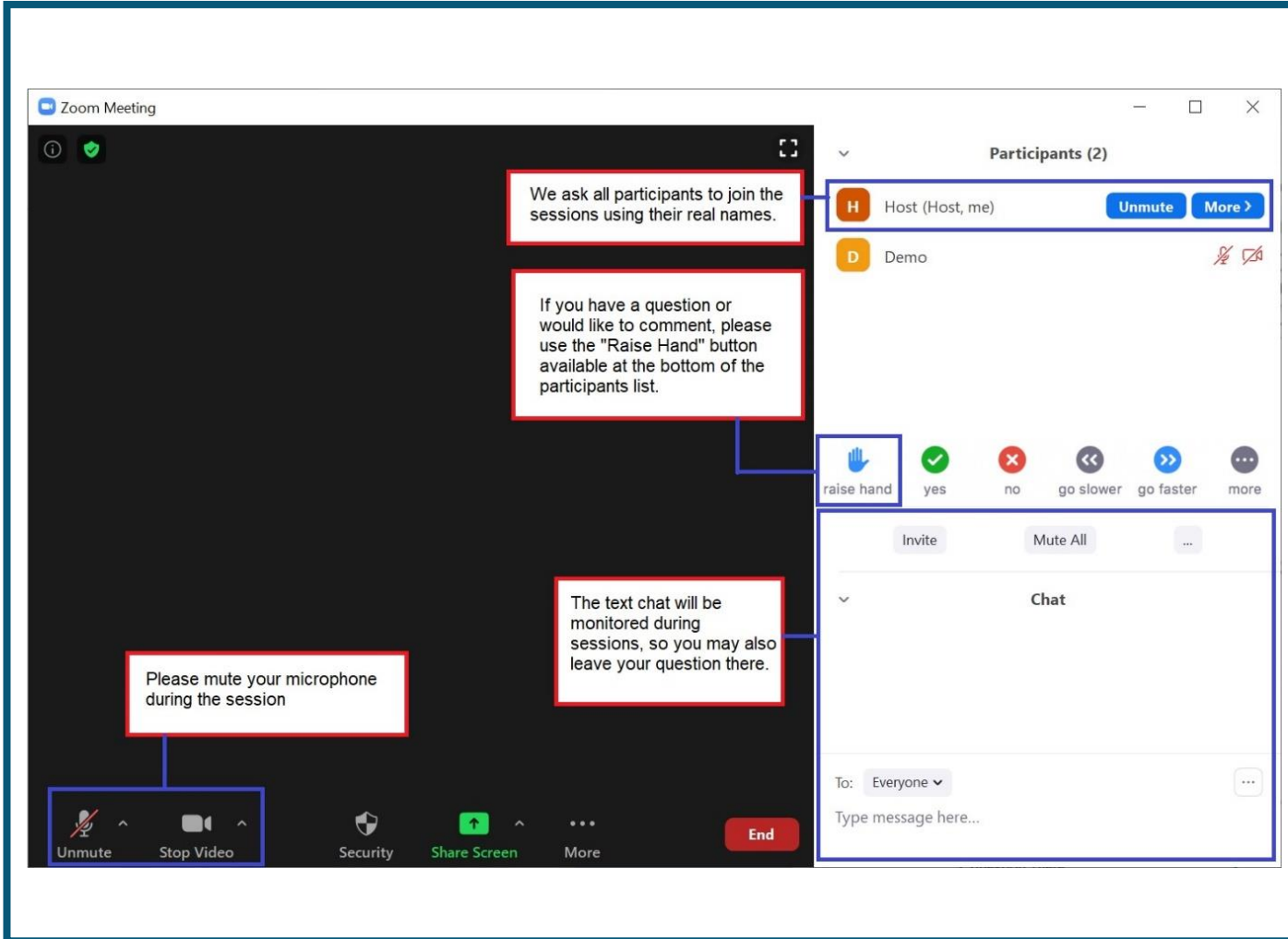
Dr Theun van Veen

[\(t.vanveen@liverpool.ac.uk\)](mailto:t.vanveen@liverpool.ac.uk)

RULES OF CONDUCT

To help facilitate the running of the School via Zoom in an orderly fashion, we kindly ask you to adhere to the following rules:

1. To facilitate discussion, we ask all participants to join the sessions using their real names.
2. Please mute your microphone during the sessions.
3. If you have a question or would like to comment, please use the "Raise Hand" button available at the bottom of the participants list. You will then appear in the top section of the participant list so that you will be 'seen' by the session leader. Clicking the button again will lower your hand.
4. The text chat will also be monitored during sessions, so you may also leave your question there.
5. Please refrain from recording any part of the conference.



Zoom Meeting

Participants (2)

- H Host (Host, me) Unmute More >
- D Demo

raise hand yes no go slower go faster more

Invite Mute All ...

Chat

To: Everyone v ...

Type message here...

Unmute Stop Video Security Share Screen More End

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PARALLEL SESSION

The parallel sessions will take place in breakout rooms created within the main Zoom meeting

Please note that once you have left a breakout room, Zoom doesn't allow you to go back into (another) room. Therefore, please **"Raise a Hand"** and let us know in the text chat which room you would like to enter.