ADR UK 2025 Conference

Hosted by YDG CYMRU | ADR WALES

Data Collision: Where Social Meets Health

SBARC | SPARK, Cardiff University, Cardiff, Wales, UK

15 & 16 September 2025

Datathon Delegate Pack

adrukconference2025.org **#ADRUKConf2025**

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Acknowledgments

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ADR UK

Datacise Open Learning

Co-organisers

SeRP

SAIL DATABANK

In partnership with

Gofal Cymdeithasol Cymru
Social Care Wales

Event sponsor

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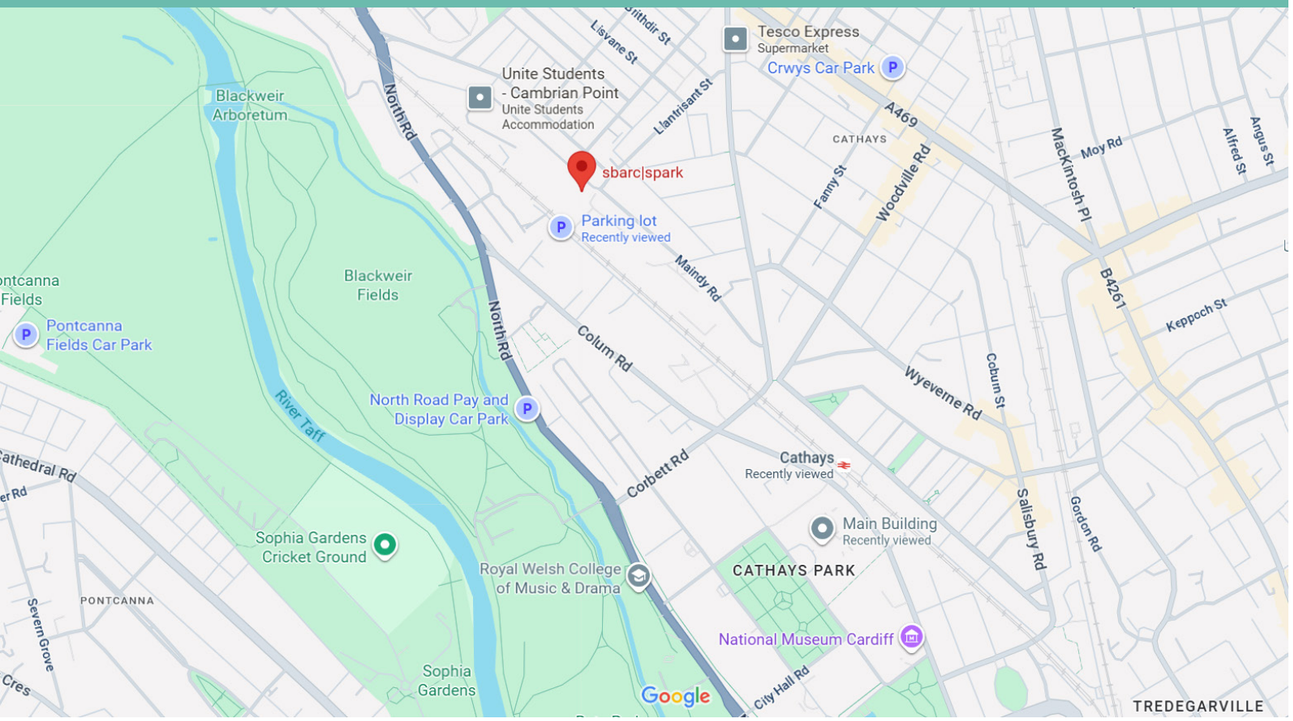
Location of SBARC | SPARK



Click the map to open in google maps

Address

sbarc|spark, Maindy Rd, Cardiff CF24 4HQ

Nearest train station

Cathays (connection from Cardiff Central) is a 12 minute walk to sparc|spark.

Car parking

Information about car parking can be found here on the sparc|spark website.

Please note: this is NOT the same location as the ADR 2025 Conference which is being held at the Royal Welsh College of Music and Drama.

Welcome to Data Collision: Where Social Meets Health!

Data Collision is a dynamic datathon designed to spark innovation and create powerful synergies between social data and health data. You'll be among experts and enthusiasts from social science and health to collaborate, compete, and co-create. Just as a physical collision can generate energy and movement, this datathon is about merging ideas, approaches, and data streams to produce groundbreaking insights and solutions.

The intersection of social research and health research is where the magic happens. When these two powerful fields intersect, creating a fertile ground for collaboration. By combining social and health data, participants will uncover new perspectives, develop innovative strategies, and contribute to a deeper understanding of how societal factors influence health outcomes and vice versa.

What to Expect

Collaborative Innovation: Work alongside data scientists, researchers, and professionals from both fields. Share your expertise, learn from others, and push the boundaries of what is possible.

AI-Driven Solutions: Leverage cutting-edge AI tools to analyse complex datasets. Whether it is predictive modelling, data visualisation, or automated insights, AI will be a key player in driving innovation during the event.

Impactful Outcomes: The collision of social data and health data can yield actionable insights that can inform public policies, improve healthcare delivery, and address social determinants of health. Your work could directly contribute to enhancing public health and societal well-being.

Real-world Challenges: Tackle real-world challenges that sit at the intersection of social and health issues. From predicting public health trends to identifying at-risk populations, the problems you will solve are as impactful as they are complex.

Be Part of the Future

It is an opportunity to be at the forefront of reshaping our understanding and approach to the interconnectedness of society and health. Whether you are an experienced data scientist or a passionate researcher, your insights are crucial to the success of this event.

PLEASE NOTE: A videographer will be filming across the two days of the datathon. If you don't wish to be shown in the video, please let one of the organising committee know.

Programme - Datathon Day 1

Monday 15th September

08:30 - 09:00	**Registration – tea and coffee on arrival**
09:00 - 09:15	**Welcome -** *Chris Roberts & Mengling Feng*
09:15 - 09:45	**"How to Survive a Datathon" Tips & Orientation** **Practical tips, expectations, team dynamics -** *Mengling Feng, Swapnil Mishra & Adam Chee*
09:45 - 10:15	**AI for responsible sharing and deployment -** *Lewis Hotchkiss*
10:15 - 10:45	**Problem pitching by the challenge owner and introduction to datasets. Additional dataset guidance/handouts will be available -** *Owen Davies & Ting Wang*
10:45 - 12:00	**Coffee break, mentors' introduction & team formation (5 teams of 4 and 1 team of 3). Informal discussions between participants and with mentors -** *Yijing Li, Rob French, Adam Chee, Ting Wang, Lewis Hotchkiss, Chris Orton, Mengling Feng & Swapnil Mishra* **Teams must be finalised by 12noon**
12:00 - 13:00	**Lunch & networking. Team bonding**
13:00 - 13:30	**Finalise the teams and technical set-up "How to use the sandbox" Platform access, server login, dataset Q&A -** *Mengling Feng, Chris Orton & Ting Wang*
13:30 - 14:30	**Datathon 'hacking' begins. Focus on refining problem, data extraction & initial insights**
14:30 - 16:30	**Mentor round one. Problem alignment check-in - mentors visit teams for early feedback -** *Yijing Li, Rob French, Adam Chee, Ting Wang, Lewis Hotchkiss, Chris Orton, Mengling Feng & Swapnil Mishra*
16:30 - 17:00	**Wrap-up briefing. Progress check, reminder of next-day goals -** *Mengling Feng*

Programme - Datathon Day 2

Tuesday 16th September

08:30 - 09:00	**Registration – tea and coffee on arrival**
09:00 - 09:30	**Morning briefing. Presentation rules, submission deadline, judging criteria -** *Mengling Feng & Swapnil Mishra*
09:30 - 12:00	**Hacking continues. Focused development of the solution and visuals**
12:00 - 13:00	**Mentor round two. Pitch preparation and strategy - mentors help teams refine story and slide deck -** *Yijing Li, Rob French, Adam Chee, Ting Wang, Lewis Hotchkiss, Chris Orton, Mengling Feng & Swapnil Mishra*
13:00 - 14:00	**Lunch break & slide submission** **Deadline for slides: 13:45 (HARD deadline)**
14:00 - 16:00	**Final presentations to the judges (5 mins/team, no Q&A)** **Randomised order, strict time enforcement -** *All participants*
16:00 - 16:30	**Judge voting. Judges rank their top choices -** *Judging panel*
16:30 - 17:00	**Closing remarks and group photo. Follow-up pathways, collaboration opportunities -** *Mengling Feng & Chris Roberts*

The winning team will be presented with trophies and certificates at 16:05 on Thursday 18 September (last day of the ADR conference). The £10,000 prize for the winning team will be processed within 60 days post conference.

Datathon Support Mentors

Professor Adam Chee

Swansea University

Assoc. Prof. Mengling (Mornin) Feng

National University of Singapore

Dr. Rob French

Cardiff University

Lewis Hotchkiss

Swansea University

Dr. Yijing Li

King’s College London

Chris Orton

Swansea University

Asst. Prof. Swapnil Mishra

National University of Singapore

Dr. Ting Wang

Swansea University

The Datathon Research Question & Datasets

We've partnered with Social Care Wales as our datathon problem owner to pose the research question for teams to answer during the datathon. Owen Davies, Data and Intelligence Manager, at Social Care Wales will present the question to teams at 10:15am on the first day of the datathon.

In partnership with

Gofal Cymdeithasol **Cymru**
Social Care **Wales**

The datathon research question

What changes are there in a young person's access to mental health services when they transition from children's to adults' services, and what are the associated impacts of those changes? For example:

- How many young people are accessing mental health services at 16 but not at 19?
- What impact does this have on their wider outcomes, such as educational outcomes?
- What changes are there between children looked after and the general population in this transition period?

The datasets available (synthetic*)

- PEDW (Welsh Hospitals)
- WLGP (Welsh Primary Care)
- WDSD (Welsh Demographic Service)
- EDUW (Education Wales)
- LACW (Looked After Children Wales)
- CRCS (Children Receiving Care and Support Census)

Additional dataset guidance/handouts will be available on the first day of the datathon.

**Please note we are using low fidelity synthetic data used for research methods and feasibility and cannot be used to produce real-world results, correlations, or outputs. Impact therefore is limited to the feasibility of what could be achieved with the real-world versions of the data, rather than publishing anything statistical (figures, trends etc.).*

The datathon allows linkage across data on a very mechanical and structural basis to allow participants to see how they work together and what could potentially be achieved with real-world versions of the data.

Team Composition

Datathon participants will have an opportunity to organise themselves into teams, and begin bonding/networking between the mid-morning coffee break and throughout the lunch break from 10:55am to 1:00pm. This will also provide an opportunity for our datathon mentors to introduce themselves to you.

Team formation

Please organise yourselves into 6 teams of 4. Each team should contain a 'rainbow':

During the datathon you will allocated colour codes based on your skills and experience. Most participants will be allocated more than one colour and you will be asked to attach colour labels to your name badge for any that apply to your skills and experience.

Key to rainbow colour coding:

Analytical software skills:	Domain experience:
• SPSS – Red	• Health domain – Blue
• Stata – Orange	• Social Science domain- Indigo
• R – Yellow	• Both domains - Violet
• Python – Green	

By the end of the team formation and networking exercise each team should have all the colours of the rainbow!

Teams must be finalised by 12noon on day 1 of the datathon (Monday 15 Sept).

Judging Criteria

The team with the winning score following the datathon presentations will be awarded £10,000. Just one score is required for each team - each team will be ranked with an overall score from 1 to 5 – 1 being the best. The team with the lowest total ranking score is the winner.

The judging panel.

The judging panel will consist of one individual from the following:

Team ranking criteria.

When scoring team presentations and datathon outputs, please consider the following qualities:

Audience engagement	• Do the presenters actively engage the audience? • Do the presenters communicate with clarity?
Quality of slide material	• Clear information? Well-structured? Logical flow? • Is it visually appealing and supportive of the work being presented?
Quality of oral presentation	• Verbally clear and articulate, conveying ideas effectively? • Professionalism, confidence, and enthusiasm throughout the presentation?
Advancing knowledge & potential impact	• Does it address the question posed by data owner Social Care Wales? • Are the methods and results explained thoroughly? • Novelty of the solution (note: novelty, not complexity). New ideas, approaches, or perspectives? • Team chemistry and the likelihood of continuing the project after the event
Timekeeping	• Do the presenters stick to time without rushing the presentation?

Score sheet.

Please add a rank score (1 to 5) for each of the teams below:

Team 1: ☐ Comments:

Team 2: ☐ Comments:

Team 3: ☐ Comments:

Team 4: ☐ Comments:

Team 5: ☐ Comments:

Additional comments:

EXAMPLE

Code of Conduct

This Code of Conduct (The Code) is intended to govern the conduct of datathon participants in their access and use of the secure virtual environment and synthetic datasets therein.

Failure to abide by The Code and to engage with the others respectfully could result in your expulsion from the datathon.

By registering for this event, you agree to adhere to all aspects of The Code, as outlined below.

You must not:

- Attempt to re-identify an individual.
- Release data or results that could identify an individual.
- Screenshot or otherwise copy, extract or distribute raw data.
- Link data to any other data unless approved or open source.
- Allow access to your datathon virtual environment account to anyone else.
- Obstruct or disrupt the datathon tutors and supervisors to deliver instruction and support.

You must:

- Only use data for public good and within the scope of the datathon objectives.
- Ensure there is adequate security including patching and antivirus software on your equipment used in the datathon.
- Engage with other datathon participants in a respectful and collaborative manner.

You can:

- Share screenshots of error messages / technical details in order to discuss with datathon tutors and supervisors.
- Share your screen amongst your working group but ONLY if group members are registered datathon participants– NO screen recordings, screenshots or details are to be recorded.
- Discuss with datathon colleagues if things are feasible / possible with the data.

Awarding the Prize

The team with the winning score following the datathon presentations will be awarded £10,000. Just one score is required for each team - each team will be ranked with an overall score from 1 to 5 – 1 being the best. The team with the lowest total ranking score is the winner.

Members from all the other teams taking part will receive a digital certificate for their valuable contributions.

The winning team will be presented with trophies and certificates at 16:05 on Thursday 18 September (last day of the ADR conference). The £10,000 prize for the winning team will be processed within 60 days post conference.

Thank you and good luck from all of us on the datathon organising committee.

Cash prize sponsored by:

Datacise Open Learning

SeRP

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Swansea University

Chris Orton
Swansea University

Chris Roberts
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Lewis Hotchkiss
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Dr. Stephanie Lee
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Asst. Prof. Swapnil Mishra
National University of Singapore

Dr. Ting Wang
Swansea University

Dr. Yijing Li
King's College London

Dr. Michael Flemming
Glasgow University

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