

# POPULATION DATA SCIENCE SUMMER INTERNSHIP PROGRAMME 2025



Swansea  
University  
Prifysgol  
Abertawe

Population Data Science  
Faculty of Medicine, Health & Life Science  
Gwyddor Data Poblogaeth  
Y Gyfadrn Meddygaeth, Gwyddor Iechyd a Bywyd

Pioneering Population Data Science for Public Good

[www.popdatasci.swan.ac.uk](http://www.popdatasci.swan.ac.uk)

# ABOUT OUR AWARD-WINNING TEAM

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[Population Data Science at Swansea University](#) is a cutting-edge research centre based in Swansea University Medical School, Faculty of Medicine, Health & Life Science. Specialising in secure-linked data analysis of health, social and other administrative data sources.

Our award-winning team are focused on delivering a world-class technology infrastructure to tackle some of the biggest challenges facing today's society and enable opportunities - creating a global research ecosystem with the potential to produce educational, environmental, economic, and societal impact.

Our team is involved with various [projects and research programmes](#), conducting different methodological and applied skills across multiple disciplines to support and achieve our world-leading innovations. These skills include but are not limited to software development, database development and management, epidemiology, statistics, data mining, data visualisation, web development, project management, patient public and stakeholder engagement and Geographical Information Systems.

WE ARE  
PIONEERING  
POPULATION  
DATA SCIENCE





# WHY SHOULD YOU APPLY TO OUR INTERNSHIP PROGRAMME?

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01

**Gain work experience** with an award-winning team at the forefront of global population data science research.

02

**Develop new skills** with real-world data analysis to develop and apply your skills in this highly secure, state-of-the-art environment.

03

**Explore a career path** in Population Data Science and find out what fits you best.

04

**Gain confidence with** our internship programme. It is a perfect way to help you gain experience transitioning from university to full-time employment. You can gain valuable insights and knowledge, participate in meetings, and perform assigned tasks in a real-world setting.

05

**Network and work alongside a team of highly skilled professionals** including your supervisors and mentors you meet during your internship, who can be valuable references as you pursue a full-time job.

06

**Build a strong CV** and give yourself a head start with the internship.

07

Some interns have become **full-time employees**: Kellie Robinson and Rowan Dash from our 2023 intern cohort, both secured full-time positions in the SERP team at Population Data Science after their internships. [Find out more about their journey here.](#)

08

**Paid employment for 12 weeks**, including annual leave entitlement.

09

The program culminates in the **Showcase Event** with an opportunity for interns to present their projects. [Check out the highlights from last year's Showcase event in this video.](#)

# Population Data Science Internship: Project 01



## **Title: The critical role of 20mph in Wales and its potential impact on traffic injuries for children**

**Summary:** In the UK, more than 13,000 children aged 16 or under died or were injured on roads in 2023, equivalent to 36 children being killed or injured every day. Transport initiatives, such as a reduction of speed limits to 20 mph, are expected to result in lower traffic speeds and fewer road traffic injuries (RTI), leading to an improvement in the perception of safety. Towards this direction, the Welsh Government introduced a default 20mph speed limit on restricted roads across Wales in September 2023, being the first national scheme in the UK. Understanding the critical role of 20mph in Wales is crucial for assessing its potential effectiveness on RTIs, especially for children.

The intern will be required to create an analysis dataset using Geographical Information System (GIS) software to link 20 & 30mph street network data to road casualty data (STATS19) in Wales. Descriptive analysis will be performed to explore counts and severity of casualties on 20mph and 30mph road network segments by socio-demographics and around points of interest such as schools and hospitals.

### **Outcome by the end of 12 weeks:**

- Linked GIS dataset of 20mph & 30mph street network data to road casualty data (STATS19).
- Descriptive analysis of RTIs by road speed (20mph and 30mph), sociodemographic, time of day, and around points of interest (e.g. schools and hospitals for child pedestrian injuries)

### **Skills/background suited:**

#### **Essential**

- Relevant undergraduate or postgraduate experience.
- Background/experience in using, linking and analysis of data.
- Experience with statistical software (e.g. R or STATA).

#### **Desirable**

- Understanding of Geographical Information Systems (GIS).



# FIND OUT MORE ABOUT THE CENTRES SUPPORTING THIS YEAR'S PROGRAMME



**SAIL Databank** is a safe haven for billions of person-based records, which enables researchers to answer important questions for the benefit of society. Researchers can access a broad range of routinely collected data spanning up to 30 years from an entire population.

SAIL Databank achieves this by working collaboratively with data guardians, academics, regulators, members of the public, practitioners, and policymakers from Wales, across the UK and internationally.

The SAIL Databank holds de-identified data in linkable form and, following further safeguards, makes selected data available for analysis in anonymised form. Approved researchers can access the data remotely anywhere in the world, complete with analysis tools. Because the data accessed for research is anonymised, the work is carried out without researchers knowing the identities of the individuals represented.



**Secure eResearch Platform (SeRP)** is the complete customisable solution for data sharing, linkage and analysis in a safe, secure and controlled environment that's accredited to the highest international standard. It does this in a governed environment allowing data owners to remain in full control at all times.

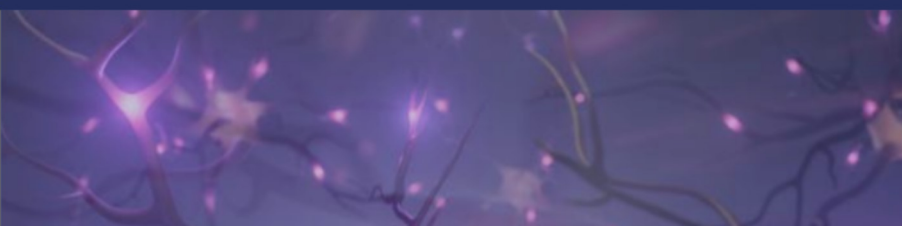
SeRP is the perfect solution for any organisation that has accumulated a large amount of data, that intends to share that data for the purposes of research and long term benefit to society, and that wants to do so in the most secure and safe way possible to reduce associated risks. SeRP can benefit sectors including healthcare, governments, academic Research, industry, charities & Not-for-profit organisations.

For more information on the benefits of SeRP, visit [SeRP Benefits](#)

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**ADR Wales (Administrative Data Research Wales)** unites specialists in each field from Population Data Science at Swansea University and the Wales Institute of Social and Economic Research and Data (WISERD) at Cardiff University with statisticians, economists and social researchers from Welsh Government. The partnership is ideally placed to maximise the utility of anonymous and secure data to shape public service delivery, which will ultimately improve the lives of people in Wales. The work carried out by the ADR Wales team covers areas such as early years, education, skills and employability, health and well-being, housing and homelessness, social care, mental health, social justice, climate change and major societal challenges.



**Dementias Platform UK Data Portal** brings together records of over 3 million people in a free-to-access resource.

Researchers can use the portal to identify which cohorts are relevant to them, apply for access to the data and then analyse it in a secure, remote environment complete with data linkage and analysis packages.

The portal brings the records together, ensures they are secure, supports data linkage studies using phenotypic, genomic, and imaging data, and makes them readily available for the benefit of academia, industry, regulators, health care providers, patients, and the public.



# HOW TO APPLY

To find out more about the Summer Internship Programme, visit:

[www.popdatasci.swan.ac.uk/about-us/summer-internship-programme/](http://www.popdatasci.swan.ac.uk/about-us/summer-internship-programme/)



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