



Summer Scholarship 2024

We are looking for a student passionate about public health and health data and is interested in health research.

We are offering an 8-week summer scholarship (€300 per week) with the CARA Network. The CARA Network aims to provide an open access data infrastructure where data from GPs, hospitals and the community can be compared in easy visualisations provided through dashboards (www.caranetwork.ie).

Requirements:

- Master or higher degree in public health, epidemiology, social marketing, communication or a related field
- Interest in data and data visualisation
- Join a team of other health researchers.

Desirable skills:

- Experience with conducting literature reviews
- Able to work on own initiative.
- Interest in health & design advantageous

To apply, please send a letter (email) outlining your suitability for any of the specific projects provided below. Also include a CV. (email: info@caranetwork.ie)

Deadline: Wednesday May 15th 5PM.

Project 1: Scoping review on chronic disease

You will be updating a scoping review on quality indicators (QIs) for chronic disease management in Europe. The objective of this scoping review is to explore current literature to identify QIs for chronic disease management. The following research question will guide the search strategy: 'Which QIs can be identified from chronic disease management?'

Searches were performed August 2023. The student will continue and update the search to May 2024 and start the screening process, extraction, synthesis of the results (including chronic disease type or category, QI, definition of the QI and method of evaluation of the QI) and manuscript writing.

Project 2: Health applications in XR

This project aims to review current use of health data in eXtended Reality (XR) settings and is focused on how health data is presented and consumed. XR includes both augmented reality and virtual reality (due to time considerations, the student can pick one of these if so desired). The scope of the project is general health data outside hospital settings (for instance, excluding medical imaging for surgery etc.). The envisaged output is a review of literature in this domain in draft version to be submitted for publication.

Project 3: Can large language models guide antibiotic prescribing in clinical settings?

Large language models (LLMs) are artificial intelligence (AI) models that are pre-trained on large amounts of text data to comprehend and thus generate human like language, such as OpenAI's GPT, Google's Gemini and Meta's LLaMA. This project aims to explore whether LLMs can guide antibiotic prescribing in clinical settings by comparing answers generated from LLMs with antibiotic prescribing guidelines. In addition, a SWOT analysis will be provided for the potential of using LLMs to guide antibiotic prescribing in clinical settings.