

SAGES Innovation Programme

Developing the UNICEF Child Climate Risk Index

Job Title: SAGES Internship

Organization: SAGES

Duration: 6 months, part-time (flexible to fit around academic commitments)

Start date: May 2021 (flexible)

Remuneration: up to £8k (dependent on duration)

Travel costs: receipted travel and necessary overnight stays

Summary

The overall aim of this project is to perform analysis of present-day observations and CMIP6 climate model projections up to 2050 to derive future variations of a number of metrics related to climate extremes. The results will be combined with a suite of socio-economic indicators to derive variations in future children-specific exposure to climate-related and environmental hazards. The intern will support the analysis process with a range of scientific, research and administrative tasks, conducted in line with the project objectives and deliverables.

Background

This project is part of the Data for Children Collaborative with UNICEF (<https://www.dataforchildrencollaborative.com/>), a joint partnership between UNICEF, The Scottish Government and the University of Edinburgh's Data Driven Innovation Programme, which seeks to improve outcomes for children locally, nationally and globally. This work contributes to the project "Developing the UNICEF Child Climate Risk Index (CCRI)" funded by UNICEF. The intern will work as part of the multidisciplinary collaborative project team, composed of staff from the Universities of Edinburgh, Southampton, Dundee and Stirling, as well as from UNICEF.

Aims and Objectives

The role of the SAGES intern will be to help identify variables and metrics in observations and CMIP6 model data to be used to develop the Risk Index, as well as to assist in performing analysis to calculate present-day and future evolution of the risks, and to communicate the findings of the work.

The primary goals are as follows:

1. Contribute to the identification of suitable metrics, also based on literature review
2. Assist and contribute to the analysis of climate model projections, including comparison with observations
3. Contribute to developing collaborations with project team members
4. Contribute to writing reports and other communication activities

Indicative timeframe for outputs

Identification of suitable metrics using literature searches: June 2021

Data collection: July 2021

Analysis and calculation of suitable metrics: September 2021

Report: October 2021

Person specifications

We are looking for an Early Career Researcher or SAGES Graduate student:

- Either working towards, or has recently completed, postgraduate study.
- Experience with programming software (e.g., Python) and with statistical analysis methods
- Experience with the analysis of large datasets
- Strong communication skills (written and verbal) as post holder will be working with various organisations and stakeholders
- Independent worker who is well-organised, can plan their own workload and is confident in their ability to deliver a well-written report in a timely manner

How to apply

To apply, please provide a one-page cover letter detailing why you are the right person for this Internship as well as a CV (2 pages maximum) to Rosanna Harvey-Crawford, Innovation Manager, SAGES. Please include one reference that you are happy for us to contact, should you be successful.

r.e.harvey-crawford@ed.ac.uk

Questions can be directed to mark.inall@sams.ac.uk

Deadline for applications is Friday 30th April 2021, 17.00hrs

By applying you are confirming that you are available for an interview, via videoconference, on Friday 7th May 2021