

Industrial emissions and children's health

PROJECT DESCRIPTION

Canada has a diverse geographic distribution of industrial emissions, as well as, different rates of children's health outcomes. For example, Alberta is among the regions with the highest levels of industrial emissions and highest proportions of adverse birth outcomes in the country. These observations offered an opportunity to study their potential associations further and focus on identifying mixtures of chemicals. Therefore, our research aims: 1) To use a novel spatial data mining approaches to investigate relationships of industrial emissions with adverse birth outcomes. 2) Identify non-random places where adverse birth outcomes and chemicals associate. 3) Identify patterns of chemical mixtures associations for new hypotheses. 4) Assess the utility of existing databases. 5) Assess the newly created data mining methods for broader application. 6) Evaluate the interdisciplinary strategies employed in this research, to contribute to the field of knowledge translation science. 7) Train a new generation of high-quality interdisciplinary personnel in environmental health.

FACULTY-DEPARTMENT

Medicine & Dentistry - Pediatrics

OPEN TO STUDENTS FROM THE FOLLOWING INSTITUTIONS

Chinese universities participating in the [*Double First-Class Initiative*](#).

DESIRED FIELD OF STUDENT STUDY

Health, Geography, Statistics

INTERNSHIP LOCATION

Edmonton Campus

NUMBER OF INTERNSHIP POSITIONS

2

INTERNSHIP DATES

Start: July 2, 2019

End: October 2, 2019

ARE THE DATES FLEXIBLE?

Yes, I am flexible regarding the internship dates. Selected students can contact me to request a date change.