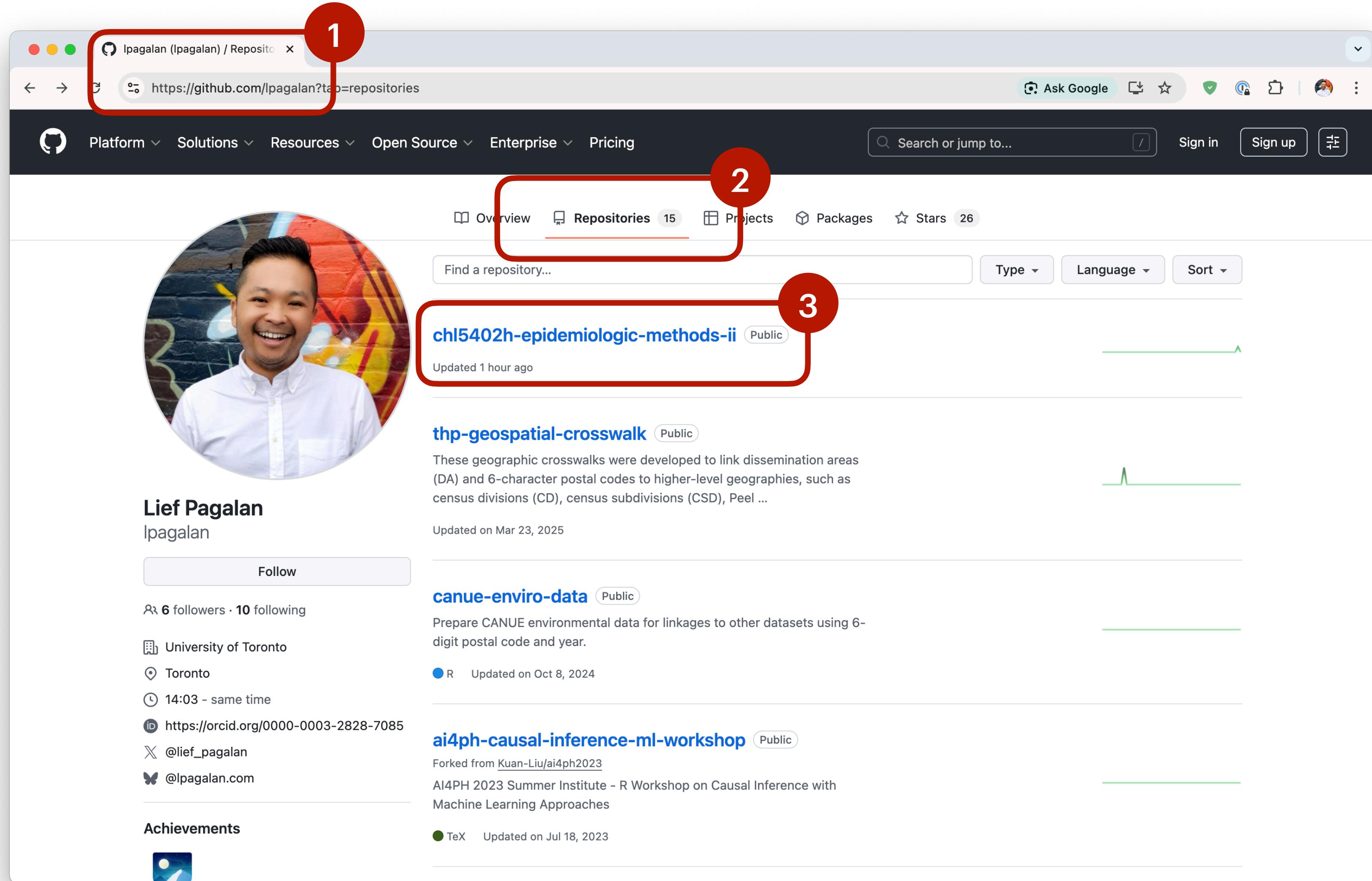


Student Project Draft Frameworks

Tutorial 03

CHL5402H – February 3, 2026

Online Materials



1. URL bar: https://github.com/lipagalan?tab=repositories

2. Repository count: 15

3. Repository: chl5402h-epidemiologic-methods-ii

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Achievements

1. URL bar: https://github.com/lipagalan?tab=repositories

2. Repository count: 15

3. Repository: chl5402h-epidemiologic-methods-ii

chl5402h-epidemiologic-methods-ii (Public)

Updated 1 hour ago

thp-geospatial-crosswalk (Public)

These geographic crosswalks were developed to link dissemination areas (DA) and 6-character postal codes to higher-level geographies, such as census divisions (CD), census subdivisions (CSD), Peel ...

Updated on Mar 23, 2025

canue-enviro-data (Public)

Prepare CANUE environmental data for linkages to other datasets using 6-digit postal code and year.

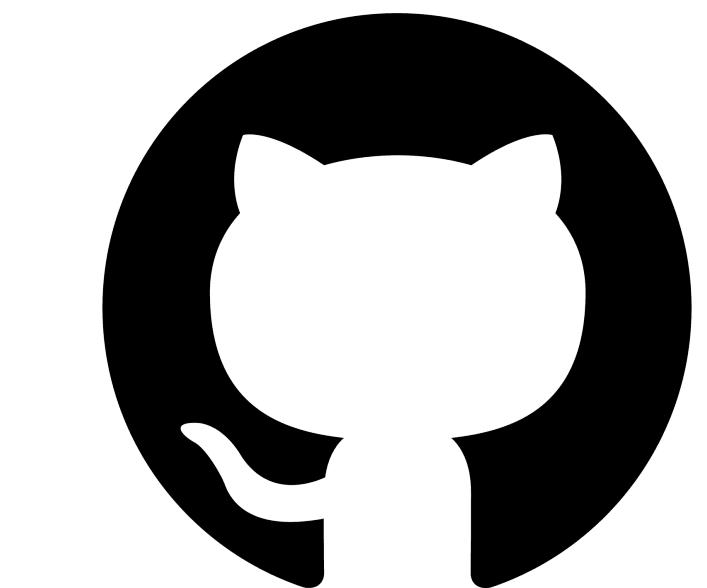
R Updated on Oct 8, 2024

ai4ph-causal-inference-ml-workshop (Public)

Forked from Kuan-Liu/ai4ph2023

AI4PH 2023 Summer Institute - R Workshop on Causal Inference with Machine Learning Approaches

TeX Updated on Jul 18, 2023



GitHub

<https://github.com/lipagalan>

Agenda

- Attendance
- Individual Exercise: PEOTS Elevator Pitch for Assignment 1
- Parallel Activities:
 - Group Exercise: Assignment 1 Peer Feedback
 - One-on-One: TA Assignment 1 Check-In

Learning Goals

- Develop exposure-outcome ideas into causal epidemiological studies
- Apply epidemiology study design concepts into practice
- Strengthen critical appraisal skills to evaluate epidemiological studies



PEOTS Elevator Pitch for Assignment 1

3 to 5 Minute Individual Exercise and Self-Assessment

PEOTS Framework

- **Mental Health:** Among university students (**P**), daily social media use above 3 hours (**E**) is associated with higher incidence of clinically significant depression (**O**) over 2 years (**T**), estimated as a relative risk from a prospective cohort study (**S**).
- **Environmental Health:** Among adults living in urban areas of Beijing (**P**), long-term exposure to PM_{2.5} above 35 µg/m³ (**E**) is associated with increased incidence of ischemic heart disease (**O**) over 10 years (**T**), estimated as a hazard ratio from a longitudinal cohort study (**S**).
- **Maternal and Child Health:** Among pregnant women in their first trimester (**P**), exposure to high air pollution (**E**) is associated with preterm birth (**O**) within the same pregnancy (**T**), estimated as an adjusted odds ratio from a population-based cohort study (**S**).

Assignment 1 Peer Feedback and TA Check-In

Small Group Work and Rotating 1-on-1

Peer Feedback on Assignment 1 Challenges

- Present PEOTS Elevator Pitch
- Identify existing challenges, and ask or provide peer feedback:
 - What is known about your exposure–outcome relationship?
 - What is the gap in the literature?
 - What study designs are you considering?
 - How does your study address the research gap?
 - What statistical estimand and analyses are most appropriate?
 - What are important confounders for your exposure–outcome relationship?
 - How do you plan to address confounding?