General Information

- Introduction
- Go through the syllabus and other important information about the course
- Big picture of the course
- Office: 210B Cullimore Hall
- Contact information: most convenient way is email
- Office hours: T 2:00 pm - 3:00 pm, F 11:30 am - 12:30 pm or by appointment
Textbook


- Other references
Email list for the class, to deliver syllabus, lecture slides, homework/solutions, exam/solutions and some important notifications.

- Computing: We will use **R**.

- Will talk more about computing when we need it.
Big Picture of the Course

- Part I:
  - Basic quantities and models, censoring and truncation
  - Estimation and confidence intervals
  - Hypothesis tests

- Part II:
  - Cox proportional hazard regression, partial likelihood
  - Refinements of Cox proportional hazards model: time-dependent covariates and stratified proportional hazards model
  - Regression diagnostics for assessing the fit of a Cox model, determining the functional form of a covariate, graphical checks of the proportional hazards assumption, and checking the influence of individual observations

- Midterm (Part I)
- Project (Parts I – II)
- Final (Parts I – II)
Course Evaluation

- Letter grade will be given based on Homework(20%) + Midterm(25%) + Project(20%) + Final(35%)
- Homework: bi-weekly. 6 homework in total.
- Midterm: one and a half hour, in-class, closed book. Tentatively scheduled at 10/20
- Final: two hour, in-class, open book. Will be on 12/15.
Project

- Find an interesting dataset yourself, real data
- Time-to-event data with explanatory variable(s)
- Interesting and complicated to some extent
- Write a report, 8-10 pages
- Give a presentation in front of the class
- A group of 1-2 people is recommend

Any questions/comments?