Thesis Journey at MPH, Epidemiology

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[1]Master's Program in Public Health Sciences Epidemiology (2018-2020)
[2]Research Assistant at Department of Medical Epidemiology and Biostatistics
Karolinska Institutet

31 August 2020

Outline

Story behind my thesis

- (Jun 2019) Finished my first year at KI

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- (Jul & Aug 2019) Did a summer internship back to Taiwan

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RESEARCH ARTICLE

WILEY Health Economics

Estimating lifetime medical costs from censored claims data

Jing-Shiang Hwang[1] | Tsuey-Hwa Hu[1] | Lukas Jyuhn-Hsiarn Lee[2] | Jung-Der Wang[3]

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$W(t)$ beyond the maximum follow-up t_F, we can use a restricted cubic splines model to fit the flattened curve of logit $W(t)$ using the whole follow-up period (Andersson, Dickman, Eloranta, Lambe, & Lambert, 2013). The fitted model is then used for the extrapolation of logit $W(t)$ beyond follow-up. The restricted cubic spline function of H knots is defined as

$$q(t) = \beta_{00} + \beta_{01}t \\ + \sum_{h=1}^{H-2}\beta_{h3}\left\{(t-a_h)_+^3 - \left[(t-a_{H-1})_+^3(a_H-a_h) - (t-a_H)_+^3(a_{H-1}-a_h)\right]/(a_H-a_{H-1})\right\},$$

$$(4)$$

Statistics in Medicine

Estimating the loss in expectation of life due to cancer using flexible parametric survival models

Therese M-L Andersson,[a][*][†] Paul W. Dickman,[a] Sandra Eloranta,[a] Mats Lambe[a,b] and Paul C. Lambert[a,c]

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- (Jan-Jun 2020) Thesis period ~~Covid period is not yet done. :(~~

About my thesis

- Title: Extrapolating cancer patient survival: a comparison of the flexible parametric model and the rolling-over algorithm

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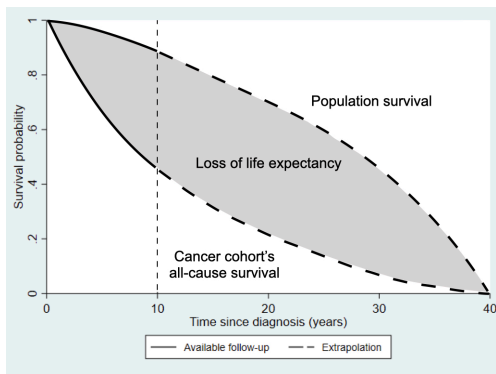

Figure: Graphical illustration of loss of life expectancy

Learning during my thesis period?

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Gol.D.Roger said to Monkey D. Luffy,
"My fortune is yours for the taking,
but you'll have to find it first.
I left everything I own in One Piece."
(Figure: https://kledikun.blogspot.com/2017/12/goldroger-or-monkeydluffy.html)

What were our thesis topics?

Figure: Thesis topics of MPH class of 2020. Figure credit: Newsletter to master students, Department of Global Public Health, July 2020

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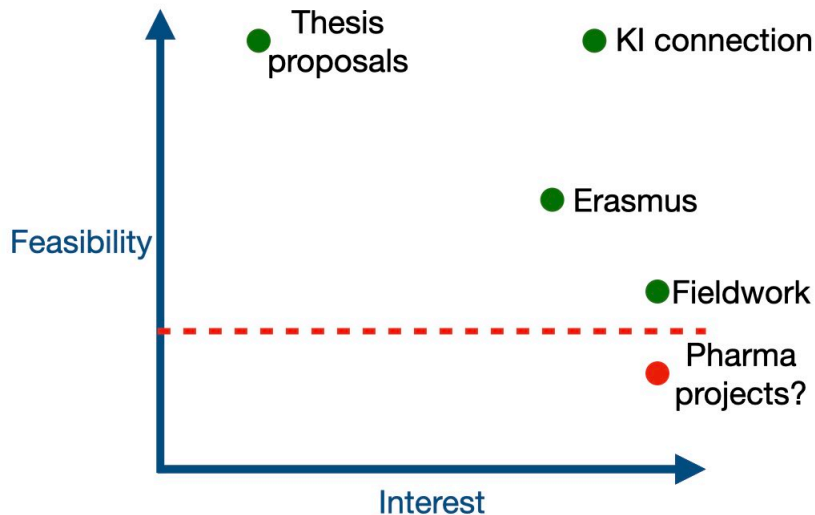- Original connection $\rightarrow$ KI connection

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- Erasmus

Feasibility vs. Interest

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  - Need to a PASS to get the diploma

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- Interest:
  - You can feel happy when doing your thesis.

You need friends

Figure: https://www.pinterest.com/pin/450289662716760457/

Contact info

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Slides available at: `https://enochytchen.com/talk/mphthesis`