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The Center for Studies in Demography and Ecology had CSDE Lightening Talks and Poster Session in March 9, 2018 at Green A – Research Commons in Allen Library South. CSDE provided great brunch and I walked around to read the poster before the presentation started.

One poster impressed me was “A new method for indirect estimation of age-specific child mortality trends using summary birth histories” written by Roy Burstein. Roy Burstein’s team analyzed 254 Demographic and Health Survey form 76 countries to collect the birth histories. His team used 7 discrete age bins and produced scatter plot, histogram, and prediction statistics. This scatter plot, histogram, and prediction statistics reminded me couple lab exercises in INFO 371.

Other poster that caught my attention was “Estimating and Predicting Past and Present Total Fertility Rates With Imperfect Data” by Peiran Liu and Adrian E. Raftery. Peiran and Adrian estimated the distribution of past and present total fertility rate with imperfect data sources. With the estimation, they made prediction of total fertility rates and conducted out-of-sample validation. They created linear regression, MCMC, random sample, and sample noise. I remember linear regression exercise, random sampling, and sample noise analysis in the class exercise. However, I did not understand what MCMC is due to my lack of knowledge.

“Support for Vigilante Justice, Fear of Crime, and Perception of the Justice System” by Francisca Gomez Baeza was another poster that was impressive. Francisca surveyed two samples of 200 people living in an upper-class district and in a low-income district. Francisca plotted linear regression and variation graph. The variation graph was such a new observation, because I want to learn about this graph.

CSDE Lightening Talks and Poster Session was such a delight for me, because I could confront new machine learning graph techniques and research methods that would help me experience my future career in machine learning software developer.