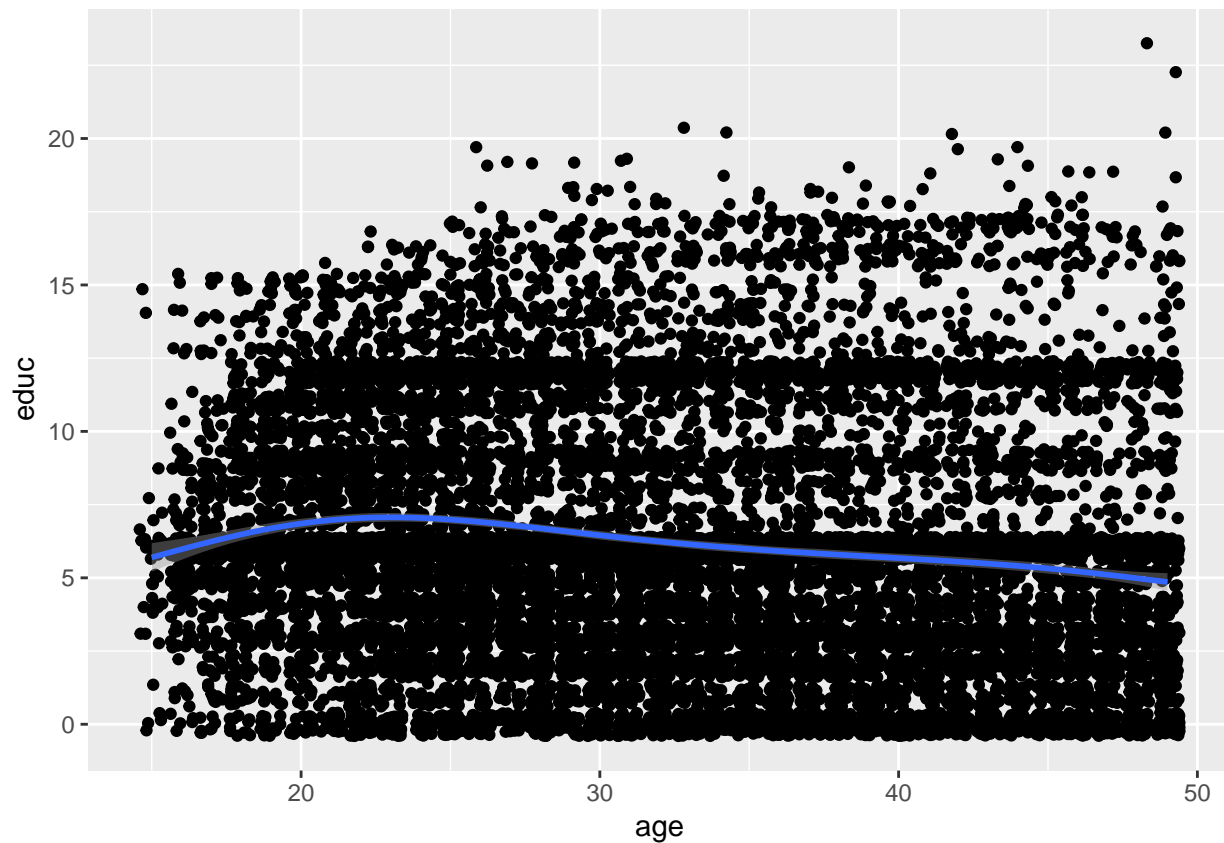# Final Report

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```r
data$religion <- relevel(data$religion, ref="Other")


fit1 <- lm(educ ~ religion + age + region + wealthCat + urban, data=data)
summary(fit1)




fit2 <- lmer(educ ~ religion + age + wealthCat + urban + (1|region),
            data = data,
            REML = FALSE)
summary(fit2)


data$age2 <- data$age^2
```

```r
fit3 <- lm(educ ~ religion + age + age2 + region + wealthCat + urban, data=data)
summary(fit3)


fit4 <- lmer(educ ~ religion + age + age2 + wealthCat + urban + (1|region),
             data = data,
             REML = FALSE)
summary(fit4)


fit5 <- lm(educ ~ religion + age + wealthCat*region + urban, data = data)
summary(fit5)


fit6 <- lmer(educ ~ (1|region),
             data = data,
             REML = FALSE)
summary(fit6)


fit7 <- lmer(educ ~ religion + age + urban + (1 + wealthCat|region),
             data = data,
             REML = FALSE)
summary(fit7)


fit8 <- lmer(educ ~ religion + age + urban + wealthCat + (1 + wealthCat|region),
             data = data,
             REML = FALSE)
summary(fit8)
```
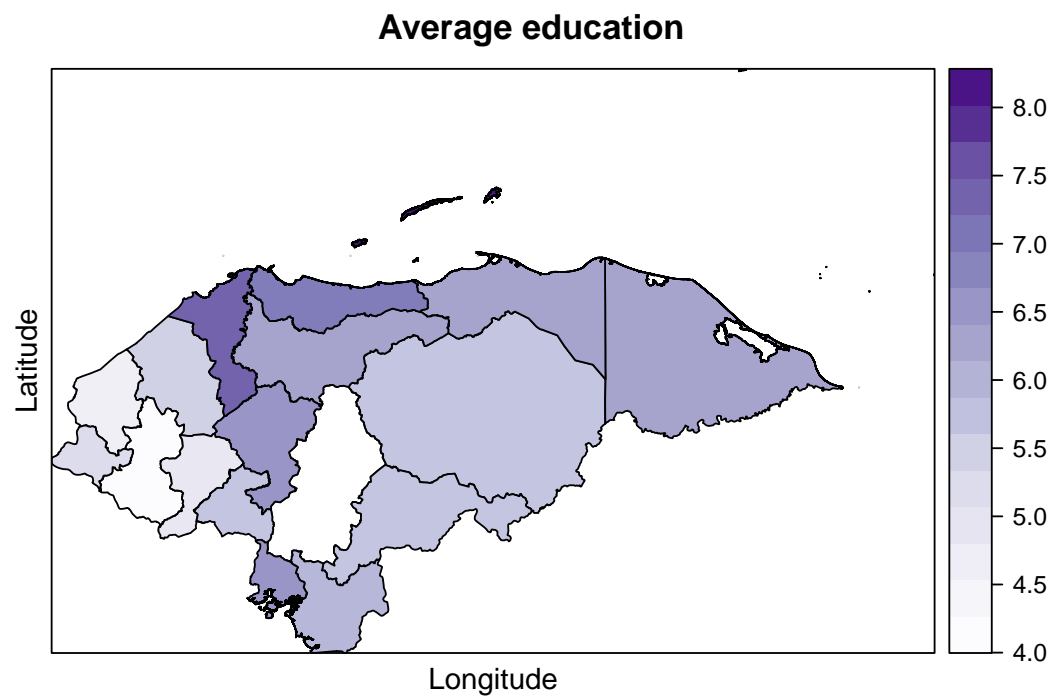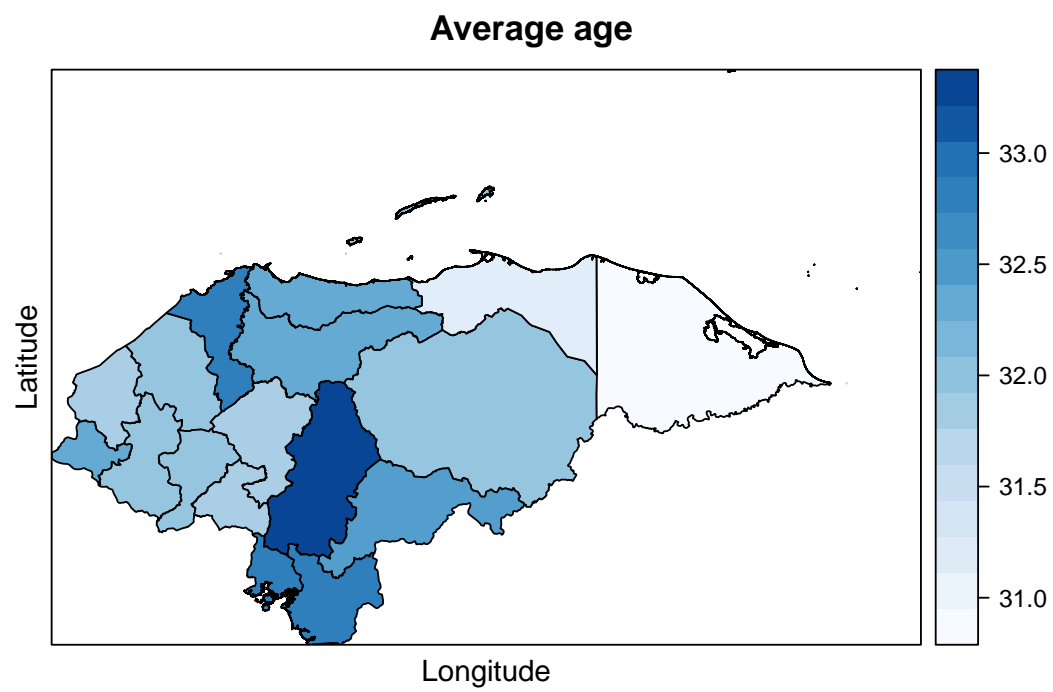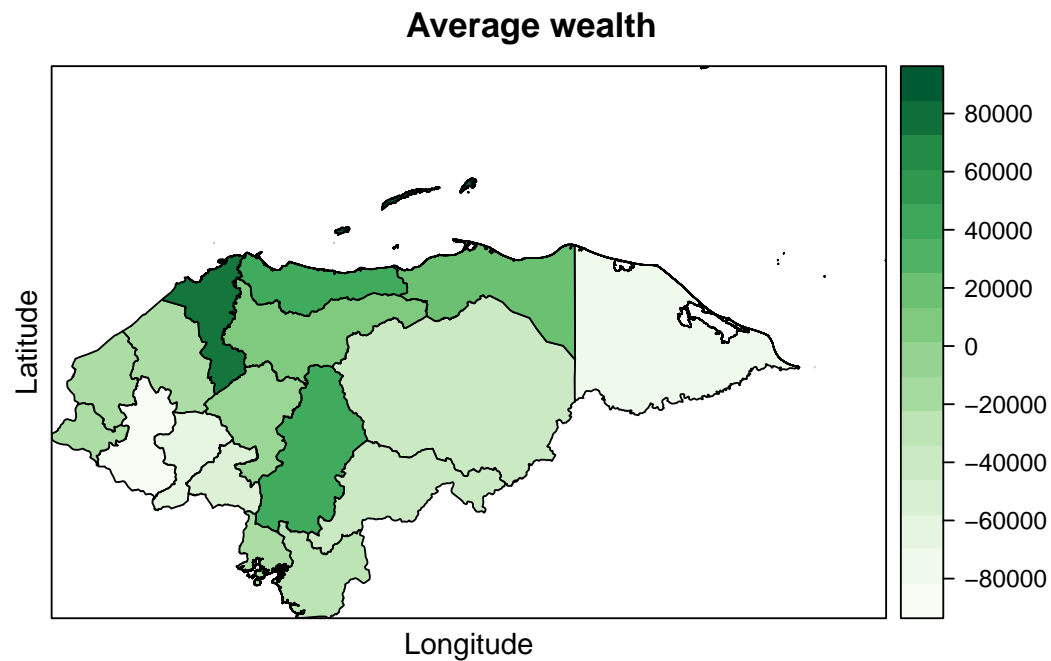
Introduction and Motivation

Here we can introduce our central research question. I don't believe citations are crucial to this project, but we can include them if necessary (McFakerson and Shenanigans 2019).

Data

Here is where we explain where the data comes from. Any descriptive statistics would be included here.

Average education

Longitude

Average age
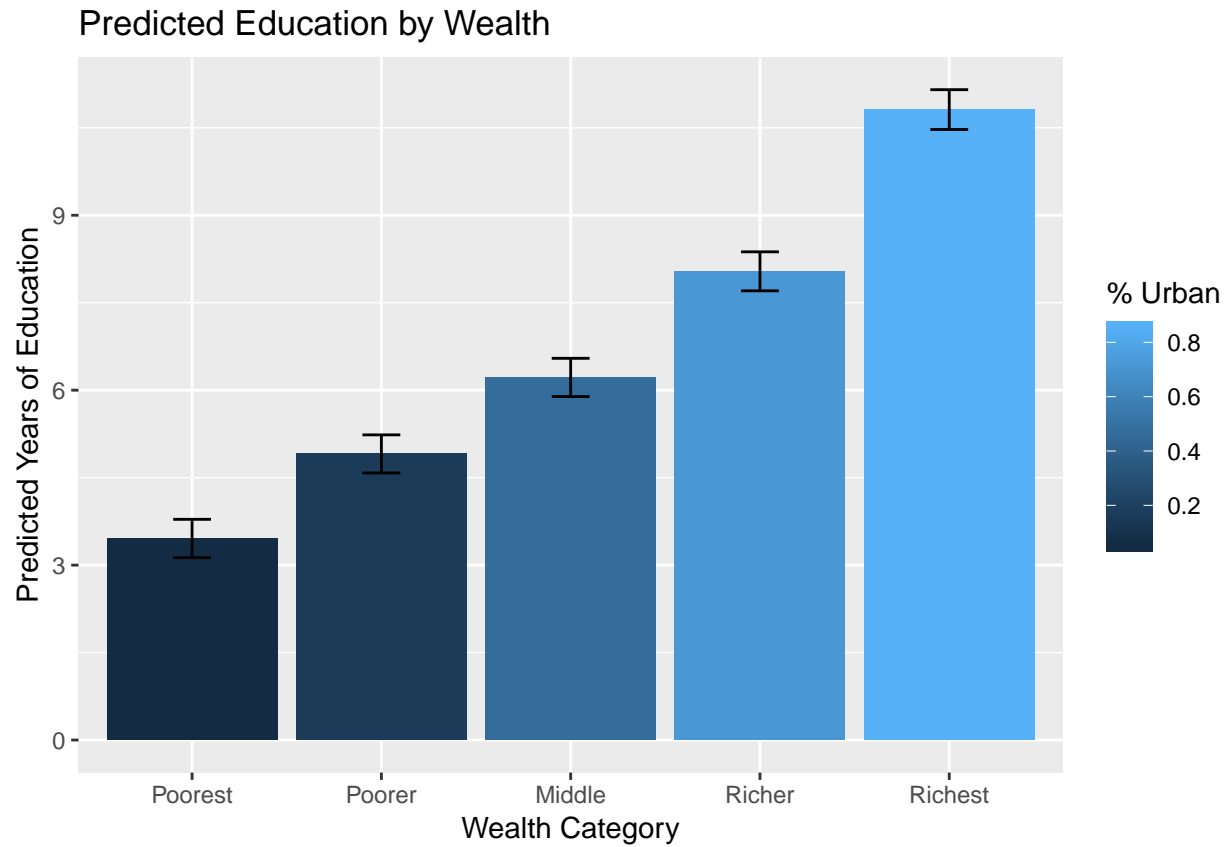
Average wealth

Analysis

In this section we explain how our model is set up and any necessary assumptions. Model selection criteria should be included here as well.

Results

We present the results of the model, including tables and/or figures. This should have the direct numerical interpretation of the key coefficients.

Predicted Education by Wealth

Conclusion

Discussion of the substantive interpretation of the model, including any meaningful impact of findings as well as limitations of model.

References

McFakerson, Fakey F., and Bull Shenanigans. 2019. "An Example Citation: Examples from an Article of Examples." *QJBS* 1 (1): 50–90.