

# Homework 3

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## 1 A Theory of Extramarital Affairs

Fair considered possible models for extramarital affairs [?] and

### 1.1 Building a binary choice model for $A$

### 1.2

## 2 Incentive Effects in the Demand for Health Care

Riphahn et al considered health care in Germany [1]

### 2.1 Building a Poisson model

#### 2.1.1 Determining an appropriate specification

#### 2.1.2 Regression Results and Marginal effects

### 2.2 Building an OLS model

#### 2.2.1 Comparison with the Marginal effects

### 2.3 Overdispersion

## 3 Appendix

The accompanying code is given as a Jupyter Notebook (in Stata) as well as a .do file.

## References

- [1] Regina T Riphahn, Achim Wambach, and Andreas Million. Incentive effects in the demand for health care: a bivariate panel count data estimation. *Journal of applied econometrics*, 18(4):387–405, 2003.