

Assignment Two: The MAUP and Multilevel Modelling

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1 Demonstrating the MAUP

1.1 Background

The modifiable unit problem (MAUP)

1.2 Data

```
# fit random intercept model - i.e. model intercept term which varies across MSOAs
OAdat$H_bad_Prop <- (OAdat$H_Vbad + OAdat$H_bad) / OAdat$pop

model.1 <- lmer(unemp ~ S_Rent + dis_ind + Ethnic + (1|MSOA_CD), data = OAdat)
summary(model.1)
```

2 Multilevel Modelling

2.1 Interpretation