

# Quantitative Methods: Student Work

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**Course:** BA Geography

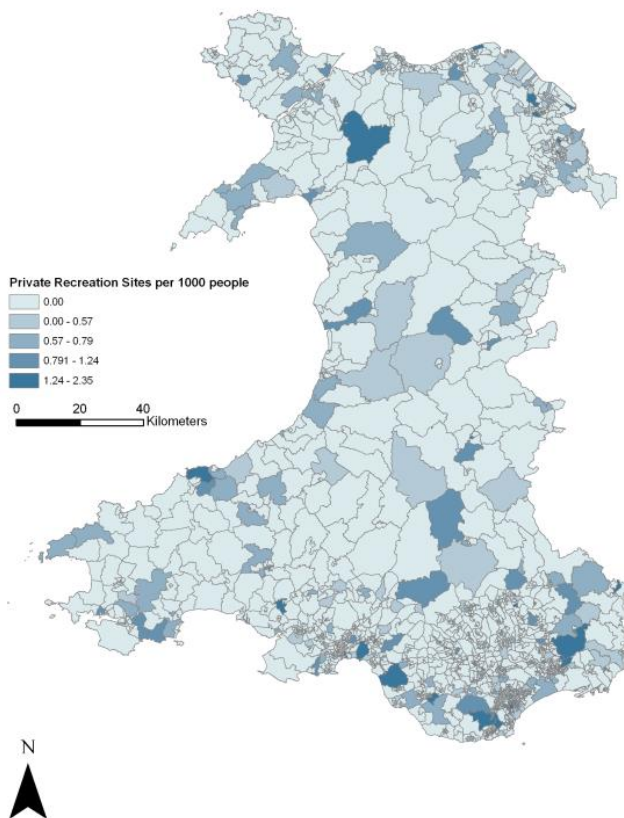
## What was the focus of your project/dissertation?

I explored potential environmental factors underpinning social disparities in physical activity levels in Wales. In particular I looked at small area variations in the availability of recreation facilities and how much it cost to use them.

## How did you apply Quantitative Methods to your work?

Using means comparisons tests I investigated any significant differences between quintiles of deprivation and the availability or price of recreational facilities. Where found I explored further using Poisson and multiple linear regression models. This made it possible to model relationships while controlling for any potential effects of urbanicity.

Private Recreation Sites per 1000 People by Lower Super Output Area



## What did you find?

Residents of more deprived areas of Wales did not appear to be further disadvantaged by the overall availability or price of formal recreation facilities. This suggests that there may be other factors mediating leisure time physical activity levels at the neighbourhood level

## Assessors views

### Why was this a good piece of work?

- Demonstrated a range of different skills relevant to the analysis of large datasets
- Use of Poisson and multiple linear regression models to analyse the data
- Ability to use GIS to map spatial distribution

### Feedback:

*"This was an excellent piece of research that achieved a degree of analytical sophistication not taught to students at undergraduate level."*