GEOGRAPHICALLY WEIGHTED REGRESSION

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http://www.ncl.ac.uk/geography/GWR
# Course Outline

**Monday 4th August**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-9:30</td>
<td>Welcome and Introductions</td>
<td>[Don Janelle]</td>
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<tr>
<td>9:30-10:30</td>
<td>Introduction to GWR</td>
<td>[Stewart]</td>
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<tr>
<td></td>
<td>An Example of House Prices</td>
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<td>10:30-10:50</td>
<td>Coffee Break</td>
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<tr>
<td>10:50-12:00</td>
<td>10 Reasons to use GWR</td>
<td>[Stewart]</td>
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<td></td>
<td>Software for GWR (GWR3.0)</td>
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<td>12:00-1:30</td>
<td>Lunch</td>
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<td>1:30-2:30</td>
<td>Examples of running GWR 3.0 and mapping results in ArcGIS 8</td>
<td>[Martin]</td>
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<td>2:30-2:50</td>
<td>Coffee Break</td>
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<tr>
<td>2:50-3:40</td>
<td>Lab Session 1: The Use of ArcGIS</td>
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<tr>
<td>3:40-4:35</td>
<td>Lab Session 2: GWR and Educational Attainment Levels in Georgia</td>
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<td>4:35-5:30</td>
<td>Lab Session 3: GWR and House Price Determinants</td>
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**Evening Reception** UCSB Faculty Club
Tuesday 5th August

9:00-10:00  Further Issues in GWR        [Stewart]
10:00-11:00 Poisson and Logistic GWR  [Chris]
11:00-11:20 Coffee Break
11:20-12:30 Examples of Poisson and Logistic GWR in GWR 3.0  [Martin]
12:30-2:00  Lunch
2:00-3:15  Lab Session 4: Poisson GWR using mortality data in Tokyo
3:15-3:35  Coffee break
3:35-5:00  Lab Session 5: Logistic GWR using educational data in Georgia
Wednesday 6th August

9:00-9:40 Extensions to GWR [Chris]
9:40-9:50 Break
9:50-10:30 Extensions to Local Weighting [Chris]
10:30-10:50 Coffee Break
10:50-12:00 GW Descriptive Statistics [Chris]
12:00-1:30 Lunch

1:30-2:30 Examples of GW Descriptive Statistics using GWR 3.0 [Martin]
2:30-2:50 Coffee Break
2:50-4:15 Lab Session 6: GW Descriptive Statistics
4:15-5:00 Discussion of Data [Stewart]
Thursday 7th August

9:00-9:30 Discussion of day’s activities [Stewart]
9:30-10:30 Participants work in pairs using GWR 3.0 on own datasets
10:30-10:50 Coffee Break
10:50-12:00 Participants work in pairs using GWR 3.0 on own datasets
12:00-1:30 Lunch

1:30-2:30 Participants work in pairs using GWR 3.0 on own datasets
2:30-2:50 Coffee Break
2:50-5:00 Participants work in pairs using GWR 3.0 on own datasets

Evening: BBQ on beach
Friday 8th August

9:00-10:40  Student Presentations of Results  [Stewart]
10:40-11:00  Coffee Break
11:00-12:40  Student Presentations of Results  [Stewart]
12:40-1:00  Wrap Up Discussion
1:00-2:30  Lunch

Depending on how long it takes to go through the student presentations, we may need to schedule an extra afternoon session. If so, lunch will be taken at 12:15 and we will resume for the afternoon session at 1:15 which will include the final presentations and the wrap-up session.

Adjournment of Workshop