One Year After. A Question of Style: individual voices and corporate identity in the Edinburgh Review, 1814-1820

Conference or Workshop Item

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(One Year After) A Question of Style: individual voices and corporate identity in the *Edinburgh Review, 1814-1820*

Dr Francesca Benatti and Dr David King, The Open University
Introduction

A Question of Style in brief
• Winner, 2016 RSVP Field Development Grant
  • (thank you!!!)

• Research question:
  • Did the *Edinburgh Review* create a “transauthorial discourse” (Klancher) that hid individual authorial voices behind an impersonal corporate style?
A Question of Style

INTRODUCTION

• When last we saw our heroes in July 2017…

• David presented at RSVP 2017 in Freiburg on
  • corpus selection
  • OCR correction

• Francesca presented at SHARP 2017 (here in Victoria)
  and BARS 2017 in York on
  • authorship
  • computational criticism

• Where are we now?
Corpus creation

The composition and rationale of our corpus
Driven by research goal:
- Analyse the style of ER
- Compare it to style of QR

Driven by prior research on *Christabel* review:
- Focus on literature, history, travel

Emergent research questions:
- Does multiple authorship hide style? (6 multi-authored articles)
- Are reviews of the same text similar to one another? (10 pairs of reviews)
- Does the genre of the text being reviewed influence the style of the review? (3 genres)
OCR correction

Post- Optical Character Recognition processing
Post-OCR processing

- **Aim:** Develop semi-automated process for OCR correction
- **Problems:** OCR errors too inconsistent for automation
  - Individual spelling choices
    - Publick
  - Regional identities
    - Perswaded
  - Political perspectives
    - Breslaw/Breslau
  - Language transformation
    - Shakspear, Shakspeare, Shakespear, Shakespeare
- **Solution:** David reviewed all automated corrections and “spelling mistakes” against the digitised source image
Quotations

Or, what is in a review?
QUOTATIONS
Or, what is in a review?

Chart Title

ERQRCorp: 35% Quote, 65% Non-quote
ERCorp: 37% Quote, 63% Non-quote
QRCorp: 29% Quote, 71% Non-quote
Or, what is in a review?

**Quotations % Max and Min**

<table>
<thead>
<tr>
<th>Corpus</th>
<th>Quote % Max</th>
<th>Quote % Min</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERCorp</td>
<td>79%</td>
<td>1%</td>
</tr>
<tr>
<td>QRCorp</td>
<td>65%</td>
<td>11%</td>
</tr>
</tbody>
</table>
Or, what is in a review?

• The presence of quotations is a problem for our chosen analytical methods

• e.g. we want to analyse Francis Jeffrey’s style (reviewer), not Walter Scott’s (reviewed)

• Solution:
  • David marked quotations using TEI XML <quote> element
  • Then we removed quotations using XSL transformation

• This reduces the total size of the corpora to **512,702 words**
Analysis

Stylometry and corpus stylistics
Two interpretations of *style*

**Style as fingerprint**

*Unconscious* elements in the way we write
(e.g. Van Halteren et al. "Existence of a human stylome." (2005))

Reflected by use of **Most Frequent Words (MFW)**

**Style as signature**

*Conscious* choice of words, sentences, tone
(e.g. Van Dalen-Oskam *Riddle of Literary Quality* project)

Still **working out** how to identify with computational methods

* as defined by Sarah Allison at DH2016, Stylistics workshop, 12 July 2016
Analysis
Methods

• Style as Fingerprint:
  • Stylometry

• Style as signature:
  • Corpus stylistics
    • Keywords
    • N-grams
    • Clusters
Stylometry in brief

• The study of how hidden stylistic traits can be measured through statistical methods to trace an author's voice

• Made better known by John Burrows in his 2001 Busa Award lectures and beyond

• Generally concerned with authorship attribution but increasingly used to study authorship more broadly

• Burrows’ s Delta method implemented by Eder, Rybicki and Kestemont’s Stylo software package

• Improved method Cosine Delta developed by University of Würzburg

• Based on analysis of most frequent words
Stylometry: by journal using Stylo (Eder, Rybicki, Kestemont); Cosine Delta; 300 MFW
Stylometry: by genre (using Stylo (Eder, Rybicki, Kestemont); Cosine Delta; 300 MFW)
ANALYSIS

Stylometry: by journal (using Stylo (Eder, Rybicki, Kestemont); Cosine Delta; 900 MFW)
Stylometry using Stylo (Eder, Rybicki, Kestemont); Cosine Delta; 300 MFW
Keywords

• Keywords are words that are significantly more frequent in the target text/corpus than in a chosen reference corpus

• Target corpus:
  • ERCorp
  • QRCorp

• Reference corpus:
  • 1780-1850 part of CLMET (Corpus of Late Modern English Texts; created by Hendrik de Smet)
  • 99 texts
  • 11 million words

• Used to represent (written) language norm for the period
• How do ERCorp and QRCorp differ from this baseline?
## ANALYSIS

Keywords: top 10 keywords, ERCorp and QRCorp

<table>
<thead>
<tr>
<th>Rank</th>
<th>ERCorp keyword</th>
<th>QRCorp keyword</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>of</td>
<td>the</td>
</tr>
<tr>
<td>2</td>
<td>the</td>
<td>of</td>
</tr>
<tr>
<td>3</td>
<td>cannot</td>
<td>cannot</td>
</tr>
<tr>
<td>4</td>
<td>we</td>
<td>we</td>
</tr>
<tr>
<td>5</td>
<td>author</td>
<td>which</td>
</tr>
<tr>
<td>6</td>
<td>poetry</td>
<td>author</td>
</tr>
<tr>
<td>7</td>
<td>which</td>
<td>river</td>
</tr>
<tr>
<td>8</td>
<td>his</td>
<td>readers</td>
</tr>
<tr>
<td>9</td>
<td>is</td>
<td>poem</td>
</tr>
<tr>
<td>10</td>
<td>poetical</td>
<td>poetry</td>
</tr>
</tbody>
</table>
## Keyword classification

<table>
<thead>
<tr>
<th>Keyword classification</th>
<th>ERCorp</th>
<th>QRCorp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Texts, authors, readers</td>
<td>author, poetry, poetical, readers, literature</td>
<td>story, character, poem, description, poet</td>
</tr>
<tr>
<td>Reviewing</td>
<td>genius, style, diction, antient, modern</td>
<td>interesting, great, original, romantic, imagination</td>
</tr>
<tr>
<td>Grammatical</td>
<td>of, the, we, most</td>
<td>of, the, we</td>
</tr>
<tr>
<td>Verbs</td>
<td>cannot</td>
<td>cannot</td>
</tr>
</tbody>
</table>
### Genius Concordances

<table>
<thead>
<tr>
<th>GENIUS</th>
<th>ER</th>
<th>QR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>189</td>
<td>56</td>
</tr>
<tr>
<td>Range</td>
<td>37/61</td>
<td>14/24</td>
</tr>
<tr>
<td>Authors</td>
<td>14</td>
<td>8</td>
</tr>
<tr>
<td>Highest user</td>
<td>Mackintosh (54)</td>
<td>Scott (33)</td>
</tr>
</tbody>
</table>
**ANALYSIS**

N-grams

- Repeated sequences of n number of words
- Repeated patterns are repeated because they are associated with the communicative needs of a certain register (Mahlberg)
- 4-grams and above have an associated semantic prosody (Fischer-Starcke)
- Semantic prosody: attitudinal element, motivation
## ANALYSIS
4-grams

<table>
<thead>
<tr>
<th>Rank</th>
<th>ERCorp</th>
<th>QR Corp</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>one of the most</td>
<td>the greater part of</td>
</tr>
<tr>
<td>2</td>
<td>the greater part of</td>
<td>one of the most</td>
</tr>
<tr>
<td>3</td>
<td>a great deal of</td>
<td>it is impossible to</td>
</tr>
<tr>
<td>4</td>
<td>as one of the</td>
<td>for the most part</td>
</tr>
<tr>
<td>5</td>
<td>we have no doubt</td>
<td>greater part of the</td>
</tr>
<tr>
<td>6</td>
<td>for the most part</td>
<td>it is plain that</td>
</tr>
<tr>
<td>7</td>
<td>it is impossible to</td>
<td>as much as possible</td>
</tr>
<tr>
<td>8</td>
<td>a great part of</td>
<td>in a great measure</td>
</tr>
<tr>
<td>9</td>
<td>is by no means</td>
<td>it is clear that</td>
</tr>
<tr>
<td>10</td>
<td>a good deal of</td>
<td>it was impossible to</td>
</tr>
</tbody>
</table>
• Out of the 200 most frequent 4-grams in ERCorp and QRCorp
  • There are more types of 4-grams marking strong judgement in ERCorp
  • 4-gram types marking weak judgement are similar in number
  • ERCorp strong judgement 4-grams occur in multiple authors

• Fewer shared expressions of judgement in QRCorp
• A marker of house style?

<table>
<thead>
<tr>
<th>Type</th>
<th>ERCorp</th>
<th>QRCorp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strong judgement</td>
<td>30</td>
<td>14</td>
</tr>
<tr>
<td>Weak judgement</td>
<td>22</td>
<td>19</td>
</tr>
</tbody>
</table>
Clusters

- Certain clusters seem more characteristic of ERCorp e.g.
  - “have no doubt”
  - “great deal”

N.B. CLMET is 30 times the size of ERCorp

<table>
<thead>
<tr>
<th>Cluster</th>
<th>ERCorp</th>
<th>QRCorp</th>
<th>CLMET</th>
</tr>
</thead>
<tbody>
<tr>
<td>have no doubt</td>
<td>19</td>
<td>1</td>
<td>58</td>
</tr>
<tr>
<td>great deal</td>
<td>35</td>
<td>2</td>
<td>694</td>
</tr>
</tbody>
</table>
Conclusion
• Some traces of “house style”
  • Relatively faint through stylometry ("fingerprint" level)
  • More perceptible through corpus stylistics (signature level)

• Influence of genre of text being reviewed on its stylistic fingerprint
• Corpus stylistics with:
  • Part of speech tags
  • Lemmatisation
  • Author-based corpora
    • Jeffrey, Brougham, Croker, Scott

• Stylometry with:
  • Character n-grams
  • Positive vs. negative reviews

• Assessment of the benefits of curation:
  • Keeping quotations
  • Using “raw” OCR
“Many interesting things cannot be counted, but many others can.”

—John Burrows
THANK YOU!

Download our corpus from ORDO (search for RSVP)
doi: 10.21954/ou.rd.6850865

Follow us on
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@dhiou