Where did *wer* go? Searching for s-curves in lexical change from Old English to Middle English

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Third-person male adult noun referents

e.g., man, guy, dude, bloke, chap, fella, gent, gentleman, geezer

Examples from the Spoken British National Corpus (BNC2014)

(1) (a) he is quite a big **dude**

(b) he's a big **bloke**

(c) he's a big **guy**

(d) he's a big **fella**, aint he?

(e) Schwarzenegger [...] mm you know that big **chap**?

Previous Research

• Research on **Present Day English**

(Franco & Tagliamonte, 2021; Tagliamonte, 2022)

- Ocumentation of variants in Old English and Middle English
 (Stenroos, 2002; Kleparski, 2003, 2005; Grygiel, 2006; Elsweiler, 2011)
- Little information on frequency changes in early English

o Unclear how this semantic field has evolved over time

S-curve



(Weinreich et al., 1968: 113-114; Bailey, 1973:77)

Present vs. Past

• Comparison of **current system** (e.g., *man*, *guy*) with **earlier** stages of English (e.g., *wer*) clearly show change within this semantic field



swiðe leaffull wer 'very faithful man'

[Bodleian Library MS. Bodl. 343, fol. 131v]

 Does lexical change within this onomasiological set follow s-curve pattern?

S-curve

• S-curve patterns are expected for lexical change

(e.g., Blythe & Croft, 2012:278-279; Chambers, 2002:361)

 However, previous s-curve patterns have been modeled predominantly on:

- phonetic features (e.g., Labov, 1994)
- grammatical features (e.g., Nevalainen, 2015)
- discourse-pragmatic features (e.g., Tagliamonte & Smith, 2021)

S-curve

- S-curve patterns for lexical change can be found in the literature (e.g., Chamber, 1995)
- However, these are usually based on **apparent time** as opposed to **real time data**
- Recent work on "short-term high density lexical change" (approx. one month) found evidence of s-shaped patterns for several "emerging words" (Grieve et al., 2017)

Research Questions

- What is the distribution of third-person male adult noun referents in Old and Middle English?
- 2) Based on the extant metadata, is there any evidence to suggest that the use of third-person male adult noun referents was conditioned, constrained, or influenced by any attested factors of variation?

Semantic field in Old English

According to A Thesaurus of Old English:

e.g., ceorl, carlmon, freca, folcagende, folcwer, guma, gumrinc, hæle, hyse, leod, mæcg, man, scealc, wer, woruldman, wiga, wæpnedmann, wæpenmann

Some reportedly restricted to poetry (e.g., *gumrinc*)
Others occur in both prose and verse texts (e.g., *wer*)

(Stenroos, 2002:382-383; Kleparski, 2003:49)

Semantic field in Middle English

- By Middle English, only half of the Germanic words for 'man' (e.g., *beorn*, *cerl*, *freca*, *guma*, *man*, *rinc*, *scealc*, *secg*) are reported to have remained in use
- **Contact** with **Anglo-Norman** led to new variants through lexical borrowing (e.g., *sire* 'man')
- The word *gentleman* emerged during Middle English (compounding French *gentil* + Germanic *mon* 'man')

(Stenroos, 2002)

Data:

• *Helsinki Corpus of English Texts* (e.g., Rissanen et al., 1991)

- Contains metadata for:
 - *text type* (prose, verse)
 - *origin* (Latin-based or original composition)
 - *time* (O1, O2, O3, O4, M1, M2, M3 etc)

 Middle English data were supplemented with texts from Sisam (1928)

Envelope of variation:

o List of variants compiled from

- -Previous literature (e.g., Stenroos, 2002; Grygiel, 2006)
- -Dictionaries (e.g., *Bosworth-Toller*; *OED*; *MED*)
- -Thesauruses (e.g., *The Historical Thesaurus of English;* A Thesaurus of Old English)

 List of spelling variants and inflectional forms compiled and subsequently searched for in the corpus

Envelope of variation:

•Downloaded and **manually inspected** for removal of functionally non-equivalent/non-comparable instances

•Variable context circumscribed to male adult referents

oInstances of ambiguity were removed from pool of analysis

•Only **instances** that unambiguously **referred** to a **male adult** were **included**

Man in Old English

Man can have a **gender-specific meaning** (i.e., male) but it also **additional functions** too:

- Indefinite pronoun ('one')
- Gender-inclusive ('person')
- Human referent ('human')

(cf. Raumolin-Brunberg & Kahlas-Tarkka, 1997; Curzan, 2003; Rauer, 2017)

Indefinite use of MAN

Old English:

(2) He sæde þæt he æt sumum cirre wolde fandian hu longe þæt land norþryhte læge, oþþe hwæðer ænig mon be norðan þæm westenne bude

'He said that he wanted to find out how long the land is northward, or whether any one (lit. man) lived to the north of the wasteland'

[Ohthere & Wulfstan, 950-1050]

Gender-inclusive/Human use of MAN

Old English:

(3) on ðam sixtan dæge he gesceop eal deorcynn 7 ealle nytenu þe on feower fotum gað 7 þa **twegen men Adam & Euan**

'on the sixth day he created all animals and all four-footed creatures, and the two humans, Adam and Eve'

[De Temporibus Anni, 950-1050]

Gender-specific use of MAN

Old English:

(4) on pære fyrde wæron pe ferdon fram Egipte
on the army were which traveled from Egypt
sixhund pusend manna butan wifum 7 cildum
six hundred thousand men except woman and children

'In that army, there were 600,000 men who traveled from Egypt, that number does not include women and children'

[Ælfric's Letter to Sigeweard, 1050-1150]

Envelope of variation:

- Only instances that unambiguously referred to a male adult were included
- How was this done?
 - Presence of names
 - Socio-historical context
 - Translations in Latin (when possible)

Socio-historical context

Old English:

(5) pa cleopede pe king Piram, ænne preost

mæren he wes swiðe wis mon and witful on bokken

meiren hellbes silvice bis mon: And lbucful outocken pumm

'Then the king summoned the Priam, a famous priest, he was a very wise and well-read man'

[Layamon, 950-1050, Cotton MS Caligula A IX, f.129r]

Context: man

Middle English:

(6) *six men* spilde here ægon 7 of here stanes



'six **men** had their testicles castrated and their eyes removed'

[Peterborough Chronicle 1150-1250, Bodleian Library MS Laud Misc. 636]

N.B. *spilde* 'deprived of [body part]' (MED, *n*)

Context: wer

Old English:

(7) se gestrynde twelf suna þa beoð heah fæderas nomecuðe

weras



'he begot/had twelves **sons**, who are the Patriarchs, famous **men**'

[Bodleian Library MS. Bodl. 343, fol. 130r]

N.B. gestrīnan 'to obain/get/acquire/procreate' (Bosworth-Toller, vb)

Contexts not included

Examples: •Indefinite pronoun

-(e.g., *forþam nat nænig man* 'therefore, nobody knows') •**Vocatives of address**

-(e.g., *ne sorga, snotor guma* 'don't worry, wise man') •Semantically non-equivalent meanings:

- mān 'crime'
- wer wergild (man + money) 'compensation tariff'
- 'husband' (e.g., *ceorl 7 wif* suggest marital relation *ceorlian/wifian* 'to take a husband/wife')

Results

Old English data

Distribution of variants in Old English

Variants	n	%
wer	266	42.2
man	86	13.6
guma	85	13.5
secg	31	4.9
beorn	29	4.6
hæle[þ]	18	2.9
rinc	18	2.9
freca	9	1.4
wæpned	9	1.4
ceorl	8	1.3
wæpman	6	1.0
Other	66	10.4
Total	631	100

- **631** tokens
- 25 attested

variants

• *Wer* was the most frequent

Variants	Prose		Verse	
	n	%	n	%
wer	204	63.6	62	19.7
man	72	22.4	14	4.4
guma	7	2.2	78	25
secg	2	.6	29	9.2
beorn	0	0	29	9.2
ceorl	2	.6	6	1.9
freca	0	0	9	2.9
rinc	0	0	18	5.7
hæle[þ]	0	0	18	5.7
wæpned	8	2.5	1	.3
wæpman	6	1.9	0	0
Other	16	6.2	50	16
Total	317	100	314	100

- Different text types favored different variants
- Wer (+prose)
- Guma (+verse)

Variants	Prose		Verse	
	n	%	n	%
wer	204	63.6	62	19.7
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freca	0	0	9	2.9
rinc	0	0	18	5.7
hæle[þ]	0	0	18	5.7
wæpned	8	2.5	1	.3
wæpman	6	1.9	0	0
Other	16	6.2	50	16
Total	317	100	314	100

Type-Token
 Ratio indicated
 a wider range
 of variants were
 used in verse

Variants	Prose	Prose		Verse	
	n	%	n	%	
wer	204	63.6	62	19.7	
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guma	7	2.2	78	25	
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rinc	0	0	18	5.7	
hæle[þ]	0	0	18	5.7	
wæpned	8	2.5	1	.3	
wæpman	6	1.9	0	0	
Other	16	6.2	50	16	
Total	317	100	314	100	

Of those variants in verse, 76% (n = 239) alliterated with words in proximity

Variants	Prose		Verse	
	n	%	n	%
wer	204	63.6	62	19.7
man	72	22.4	14	4.4
guma	7	2.2	78	25
secg	2	.6	29	9.2
beorn	0	0	29	9.2
ceorl	2	.6	6	1.9
freca	0	0	9	2.9
rinc	0	0	18	5.7
hæle[þ]	0	0	18	5.7
wæpned	8	2.5	1	.3
wæpman	6	1.9	0	0
Other	16	6.2	50	16
Total	317	100	314	100

- Chi-Square indicated alliteration had a significant effect on variation in verse texts (p < .001)
- Alliterative demands in verse creates the need for wide range of variants

Distribution of OE variants by Origin

Variants	Non-transla	ated	Translate	ed
	n	%	n	%
wer	115	28.1	151	68.3
man	50	12.2	36	15.8
guma	72	17.6	13	5.9
secg	30	7.3	1	.5
beorn	25	6.1	4	1.8
ceorl	7	1.7	1	.5
freca	9	2.2	0	0
rinc	15	3.7	3	1.4
hæle[þ]	17	4.1	0	0
wæpned	6	1.5	3	1.4
wæpman	5	1.2	1	.5
Other	58	14.3	9	3.9
Total	409	100	222	100

- non-translated texts
 contained a wider a range
 of variants than translated
 texts
- In translated texts, *wer* made up 68.3% of the semantic field.

Multivariate Analysis

- oMixed effects logistic regression in Rbrul (Johnson, 2009)
 - -Dependent variable coded binomially: *wer* vs. all other variants
 - -<u>Linguistic</u>:
 - Alliteration (when present)
 - -<u>External</u>:
 - Text type [prose, verse]
 - Text origin [translated, not-translated]
 - Time [O2, O3, O4, M1, M2, M3]

Logistic regression of the factors influencing the use of WER versus all other Old English variants

	n	%	FW	
FIXED EFFECTS				
TIME **				
03	418	32.3	.70	
O2	140	69.3	.50	
O4	73	46.6	.34	
Range			36	
TEXT TYPE ***				
prose	317	64.4	.81	
verse	314	19.7	.20	
Range			61	
TEXT ORIGIN **				
translated	222	68.0	.69	
non-translated	409	28.1	.30	
Range			39	
RANDOM EFFECTS				
TEXT ID	SD = 2.1	SD = 2.12		
Total $n = 631$, Input = .453, Texts = 72, * $p < .05$, ** $p < .01$, *** $p < .001$				

- All three factors
 - **significantly** affected the choice to use *wer* **
- TIME (*wer* occurred more frequently in O2 than O4)
- Interaction effect of TIME and TEXT TYPE (making it appear that the decrease was not linear)
- Separate model was run on only the prose data. The decrease was linear

Middle English data

Distribution of variants in Middle English

Variants	n	%
man	141	57.3
kni3t	33	13.4
gome	10	4.1
burne	8	3.3
shalk	6	2.4
beorn	5	2.0
freke	4	1.6
segge	4	1.6
cherl	3	1.2
hathel	3	1.2
wepmann	3	1.2
Other	26	10.7
Total	246	100

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- 27 attested variants
- *Man* was the number one variant
- *Wer* was attested only once as a 'male adult' referent in the dataset (*Ormulum*)
- Whenever *wer* occurred in non-equivalent contexts, it occurred in contexts where it meant 'husband'

Logistic regression of the factors influencing the use of MAN versus all other Middle English variants

	n	%	FW
FIXED EFFECTS		·	
TIME **			
M3	77	55.8	.88
M1	126	53.2	.34
M2	43	72.1	.24
Range		·	64
TEXT TYPE ***			
prose	78	92.3	.84
verse	168	41.1	.16
Range		·	68
TEXT ORIGIN **			
translated	37	81.1	.62
non-translated	209	53.1	.37
Range		•	25
RANDOM EFFECTS			
TEXT ID	SD = 2	.7	<i>n</i> = 20
Total $n = 246$, Input = .868 * $p < .05$, ** $p < .01$, *** $p < .001$			

- TIME was significant, with *man* occurring more frequently in M3 than M1
- *Man* occurred more frequently in prose than verse
- Like *wer*, it occurred more frequently in translated texts than non-translated texts

Changes from Old English to Middle English

Frequency of wer, guma, and man in Old and Middle English prose texts



1. Wer was the most frequent variant for 'man' in Old English

- Over time it was **replaced** by *man*
- By Middle English, *wer* was attested only once referring to male adult
- Other occurrences of *wer* were instances where it meant 'husband'
- Interestingly, many lexical items belonging to this semantic field follow this trend (e.g., *fella how's your fella*?)
- 2. Replacement of *wer* with *man* follows a prototypical s-curve pattern
 - This suggests that although change does not have to follow s-curve patterns (e.g., Kauhanen, 2017), **lexical change can follow s-curve patterns**.

3. Linguistic and external factor influenced lexical choices

- Alliteration influenced choices in verse
- Text type and text origin significantly affected choices

4. Why did wer disappear?

- Data show its decrease was already underway in Old English
- The "Actuation Problem" (Weinreich et al., 1968:102) occludes an explanation for the causation of this change took place
- However, one could **speculate** that contact with Anglo-Norman may accelerated this change
- *Wer* was likely homophonous with Norman French loanword
 werre 'war' (*MED*, n.) which appears as early as 12th century texts
- In line with the "homonymic clash" proposed by M. L. Samuels (1972: 67-75)

Conclusion

- System of third-person male adult noun referents is a dynamic and heterogeneous one, with variants being replaced at different intervals in time
- Like in the present-day, intra- and extralinguistic factors influence lexical choices
- While apparent-time studies point to the applicability of scurve patterns for lexical change, this study adds an important diachronic dimension

Many thanks!

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Appendix

The frequency of *wer*, *guma*, and *man* from Old English to Middle English in Verse Texts.



Example of *Wer*

(5) Ond on done ylcan dæg Crist gereorde fif dusenda and on the same day Christ fed five thousand wera hlafum ond of twam fixum, men.GEN.PL bread DAT.PL and of two fish.DAT.PL eac wifum ond cildum para wæs ungerim also women DAT.PL and children DAT.PL, which was uncountable

'And on that same day, Christ fed **5,000 men**, with loaves of bread and two fish. In addition, he **also** fed **women** and **children**, of which there were many'

[Old English Martyrology, 950-1050]

Presence of Names

Old English:

ða wæs Apollonius gehaten sum iung man se
wæs swiðe welig and snotor
'There was a young man called Apollonius who
was very wealthy and wise''

[Apollonius of Tyre, 950-1050]

Translation from Latin

Old English:

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ne can þara idesa owðer gieta þurh gebedscipe **beorna** neawest

'Neither of these women have slept with a **man** before'

[Genesis, 950-1050]

It is evident the *idesa* the *beorna* 'men' have not slept with are 'men' because of the Latin (*habeo duas filias, quae necdum cognoverunt virum* 'I have two daughters who are yet to have known/slept with men' Note. *Wer* is cognate with Latin *vir*, but the scribe used *beorn* instead (perhaps due to alliteration)

From man to husband

- This shift appears to be a common one
- This happened with wer

ða [*þæt Latinus*] *hiere wer geascade* 'when [Collantinus] her husband asked'

- Also
 - guma > groom
 - *ceorl* > 'married man' (adj. *ceorleas* 'unmarried', vrb. *ceorlian to take a husband*)
 - *man* > I now pronounce you man and wife
 - *fella > how's your fella*Icelandic (*versæll* 'well married,' literally, 'husband-blessed')

Referential Equivalence

•Although there are **semantic nuances**, at the discourse level, they can have the **same referential meaning**

•Examples from *Sir Gawain and the Green Knight* show the nouns are used to refer to the same knight (*quop the* ... 'said the...')

hit is sothe, quop the segge it is sooth said the warrior 'it is true, said the **man**'

is pis Arpure3 hous, quop the hathel is this Arthur's house said the nobleman 'is this Arthur's house, said the **man**' yet firre, quob the freke yet further said the warrior 'yet further said the man'

madame, quob the myry mon madam said the merry man 'my lady, said the merry man'

Data

Period	Words
O2 [to 950]	94,240
O3 [951-1050	251,630
O4 [1051-1150]	67,380
M1 [1151-1250]	48,336
M2 [1251-1350]	30,554
M3 [1351-1420]	50,069

Additional Texts Added:

M1

[Ormulum, Hali Meidhad, Peterborough Chronicle, Layamon's Brut]

M2

[Dame Sirith, Man in the Moon, Havelok, The Thrush and the Nightingale, Sir Orfeo, Ayenbite of Inwyt]

M3

[The General Prologue to the Canterbury Tales, The Wife of Bath's Prologue, The Dancers of Colbek, Sir Gawain and the Green Knight, The Pearl, Henry V: Letters to a Bishop, The New Testament: Wycliffe, Chaucer's Astrolabe, The Cloud of Unknowing, John Travisa: Polychronicon]

Full List of OE variants

beorn, carlman, cempa, ceorl, cniht, duguð, eorl, freca, guma, hæle[b], hildedeor, hyse, leod, magu, man, rinc, scealc, secg, sundbuend, begn, wæpman, wæpned, wer, wiga, wigmen

Full List of ME variants

bachelor, baroun, beorn, burne, carlman, cherl, duzeðe, erl, freke, gome, hathel, kempe, knape, kni3t, ladde, lede, man, rahze, renk, schalk, segge, swein, bein, tulk, wepmann, wer, wy3e

WER in Middle English

Uss birrb heroffe witenn wel 7 seon 7 unnderrstanndenn, batt Davib us behooves thereof know well and see and understand that David kingess kinness men, off weress oppr off wifess wipp Aaroness kinness men king.GEN kins men from men or from women, with Aaron.GEN kins men Off sibre warenn sammnedd, to streonenn streon to wurrbenn sibb, from lately were gathered to acquire offspring to become relation wibb kingess 7 wibb preostess

'It is necessary for us to know, see and understand, that the lineage of King David's kin, from men or from women, were gathered lately to have offspring in order to be related to Kings and to priests'

'men' OR/AND 'women'

Pa namen hi fa men fe hi wenden őat ani god hefden, bathe be nihtes then took they the men who they turned that any goods had both by night 7 *be dæies* carlmen 7 *wimen*, 7 *diden heom in prison* and by day men and women and did them in prison

'Then they seized those people who had any goods, both during the night and during

the day, both men and women, and threw them in prison'

[Peterborough Chronicle, 1150-1250]