

***Microvariation in Welsh pronouns and agreement***  
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## 1 HISTORICAL DEVELOPMENT

### Middle Welsh pronouns (part system) > Modern (spoken) Welsh

	1S	2S	3MS	3FS	1P	2P	3P
weak	i	ti/di	ef	hi	ni	ch(w)i	hwy
strong	myfi	tydi	efo/efe	hyhi	nyni	chwychwi	hwyntwy
weakened	fi	ti/di/chdi	fo/fe	hi	ni	chi	nhw

### Grammar 1

Gruffydd Robert (born before 1531 prob. c. 1522, prob. from Gwynedd (Caernarfonshire)) = NW.

Rhys Prichard (born 1579?, probably Llandovery, Carmarthenshire) = SW.

Ellis Lewis (fl. 1640–61, from Llanuwchllyn, Gwynedd (Meirionnydd)) = NW.

Morgan Llwyd (born 1619, from Maentwrog, Gwynedd (Meirionnydd)) = NW.

Dafydd Maurice (born 1626, from St. Asaph, Denbighshire) = NE.

- (A) ... yn welh **nath di** ...  
     PRED better than.you  
     ‘... better than you ...’ (Gruffyd Robert, *Y drych cristianogawl*, 13r, 1595)
- (B) Ped fawn                   i yma **gyda ’th di** lawer mis ...  
     if      be.IMPF.SUBJ.1SG I here with you   many month  
     ‘If I were to be here with you for many a month ...’ (Morgan Llwyd, *Llyfr y tri aderyn*, p. 28, 1653)
- (C) Resolfia                  rhyngot      **a ’th di** dy hun pa beth sydd yw wneuthur.  
     resolve.IMPER.2SG between.2SG and you   yourself what is.REL to-3SG do.INF  
     ‘Resolve between you and yourself what is to be done.’ (Jeremias Drexel, *Ystyriaethau Drexelius ar dragwyddoldeb*, trans. Ellis Lewis, p. 266, 1661)

In second person singular: *â thydi* ‘with you’ > *â th’di* [grammar 1] > *â chdi*

### Grammar 2A

- (1) Rhaid i ti beidio digio wrtha i am ddeyd y **ythti** – fedra i ddim deyd y *chwi*, wel-di: mi rydw i’n cofio dy daid yn llanc ifanc o’r gore ...  
     ‘You mustn’t get angry at me for saying *ythti* [informal ‘you’] – I can’t say *y chwi* [formal ‘you’], you see: I remember your grandfather as a young lad all too well ...’ (William Rees, *Aelwyd f’Ewythr Robert*, p. 7, 1853)
- (2) [“Wel, mi ddalia i chi am beced o datws, mod i chwedi dyallt,” ebe Jacki.]  
     “**Ythdi** chwedi dallt!       y llo dwl gin ti?” ebe yr hen wr.  
     you.INDEP PERF understand.INF the calf stupid with you said the old man  
     [“ond gât glowed sut y daru ti ddallt y peth?”]  
     [“Well, I’ll bet you a peck of potatoes that I’ve understood,” said Jacki. “You understood! the stupid calf that you are?” said the old man; “[but let me hear how you understood it?”]’ (William Rees, *Aelwyd f’Ewythr Robert*, p. 38, 1853)

- (3) Wel, 'dwi      'n meddwl y    do      i **hefo 'th di**, os ca      i.  
 well be.PRES.1S PROG think.INF COMP come.FUT.1S I with you if may.PRES.1S I  
 'Well, I think I'll come with you, if I may.'" (William Rees, *Aelwyd f'Ewythr Robert*, p. 474, 1853)
- (4) cha      i byth mo      'r gair dwaetha **arnat ti**.  
 get.PRES.1S I never NEG.DEF the word last      on.2S you  
 'I'll never get the last word over you.' (William Rees, *Aelwyd f'Ewythr Robert*, p. 10, 1853)
- (5) **Oeddet ti**      'n meddwl na      wyddwn      i ddim am hwnw tan 'rwan?  
 be.PAST.2S you PROGthink NEG.COMP know.IMP.1SI NEG about that until now  
 'Did you think that I didn't know about that till now?' (William Rees, *Aelwyd f'Ewythr Robert*, p. 166, 1853)
- (6) ... a mi rho      i **di** yn y carchar ...  
 and PRT put.PRES.1S I you in the prison  
 '... I'll put you in prison ...' (William Rees, *Aelwyd f'Ewythr Robert*, p. 109, 1853)
- (7) Mae isio naw o **dy ffasiwn di**      i neyd dyn.  
 be.PRES.3S want nine of 2S kind      you to make.INF man  
 'You need nine of your sort to make a man.' (William Rees, *Aelwyd f'Ewythr Robert*, p. 155, 1853)
- (8) Mi alla      i **dy goelio di**      am y peth cynta ene ...  
 PRT can.PRES.1S I 2s believe.INF you about the thing first that  
 'I can believe you about the first thing there ...' (William Rees, *Aelwyd f'Ewythr Robert*, p. 155, 1853)

## Grammar 2B

- (9) "... Gallaf fi gyd-ddwyn pob baich hefo '**ch di**."  
 can.PRES.1S I withstand.INF every burden with you  
 "... I can withstand every burden with you." (Lewis William Lewis, *Huw Huws*, p. 5, 1860)
- (10) ... ond os **ch'di** geiff      y lle ...  
 but if you get.FUT.3SG the place  
 '... if it's you that gets the place ...' (Lewis William Lewis, *Huw Huws*, p. 15, 1860)

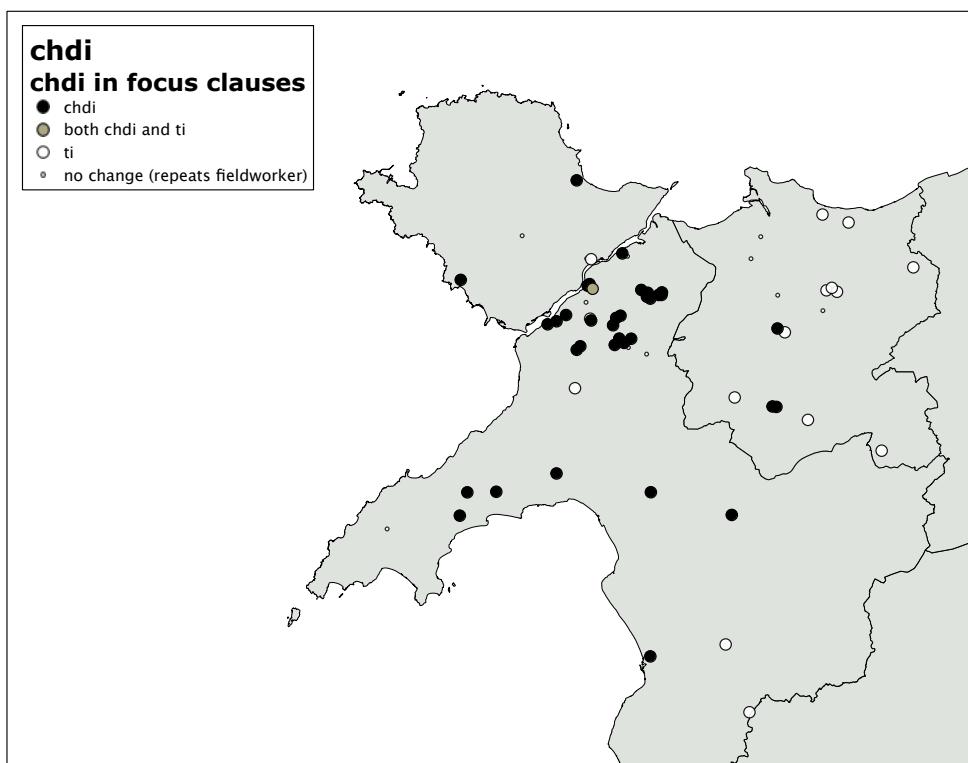
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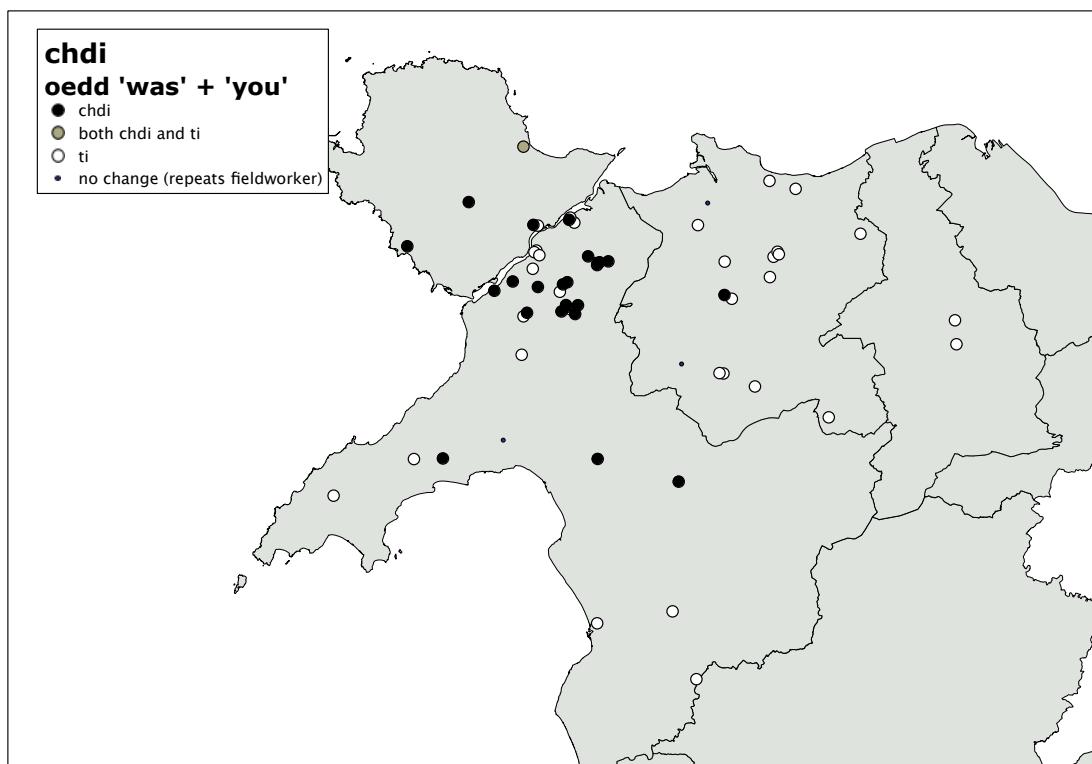
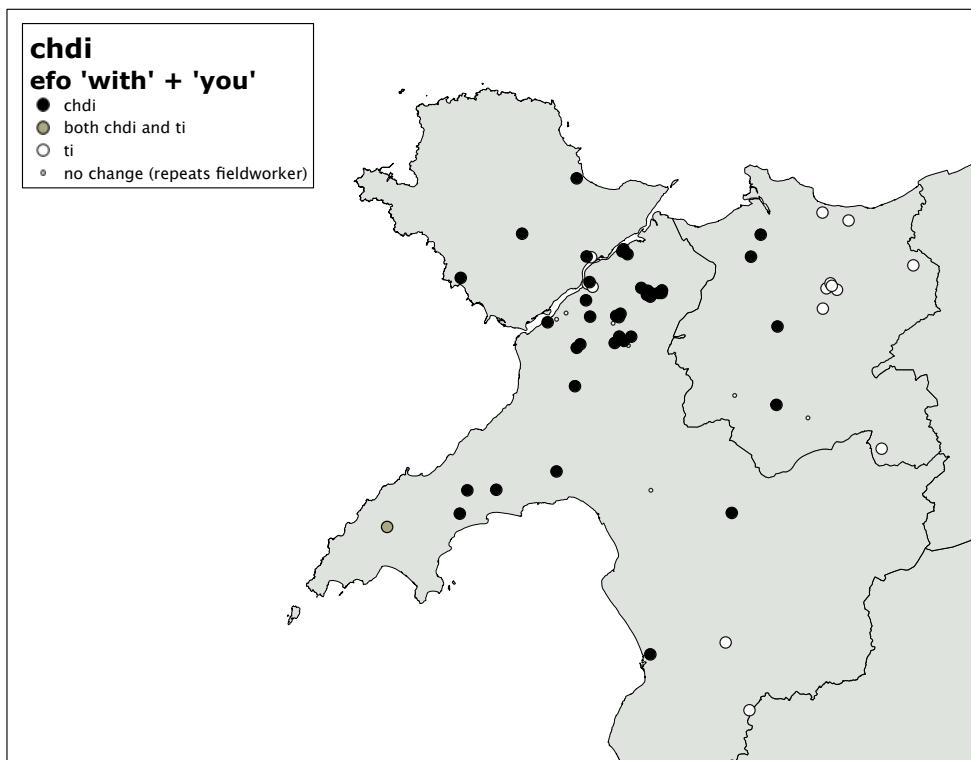
- (11) Mae o'n beth rhyfedd iawn dy fod **chdi** 'n priodi rwan.  
 be.PRES.3S it PRED thing strange very 2S be.INF you PROG marry.INF now  
 'It's a very strange thing that you're getting married now.' (Kate Roberts, *Traed mewn cyffion*, p. 108, 1936)
- (12) ... yn lle dy fod **chdi** 'n llusgo 'r clocsiau mawr yna.  
 instead 2S be.INF you PROG drag.INF the clogs big those  
 '... instead of your dragging those big clogs around.' (Kate Roberts, *Te yn y grug*, 1959)
- (13) Pwy sy 'n ffonio chdi?  
 who be.REL PROG phone.INF you  
 'Who's phoning you?' (Siarad corpus, davies9)

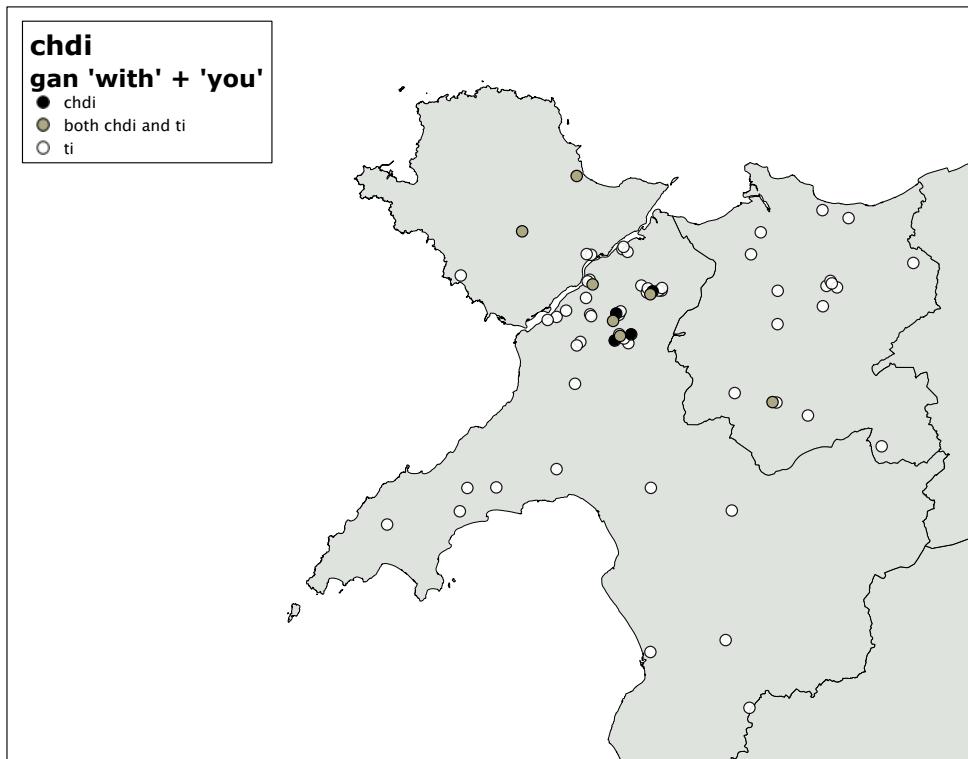
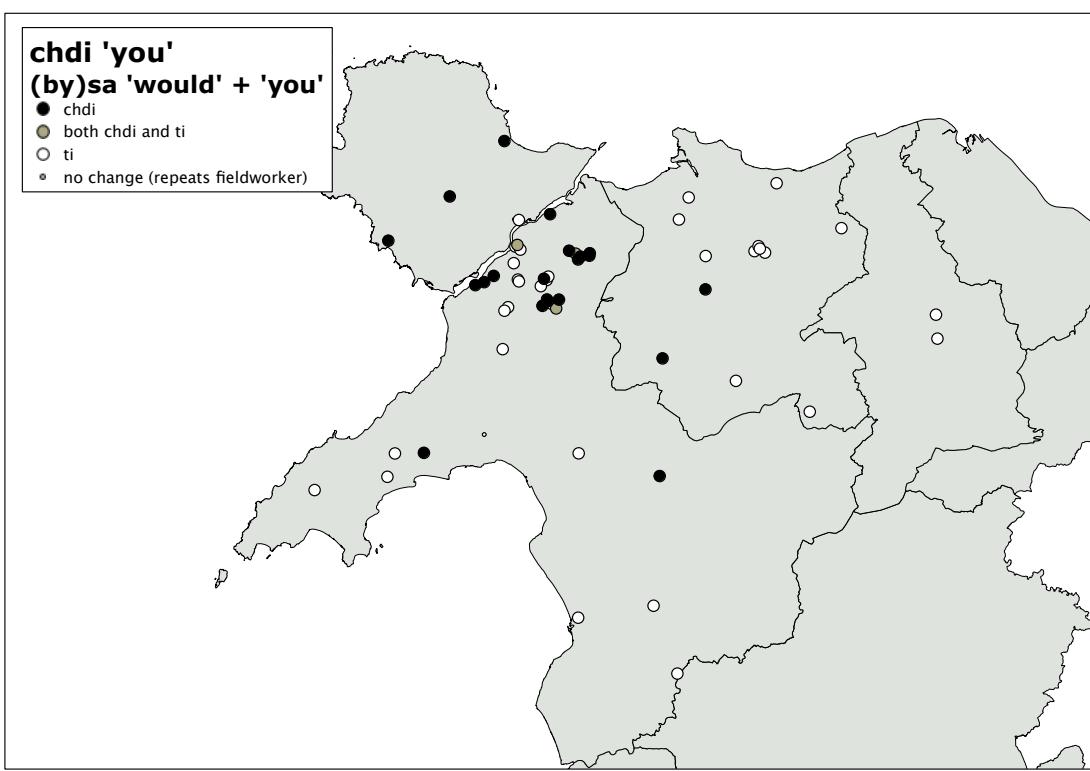
## Grammars 4–10

- (14) a. Wnes i ddeud 'tha chdi am ... y bobl 'na ...  
          do.PAST.1S I say.INF to you about the people those  
          'I told you about those people ...' (Siarad corpus, robert2)
- b. achos mae gynna chdi spellchecker Cymraeg arno fo.  
          because be.PRES.3S with you spellchecker Welsh on.3MS it  
          'because you've got a Welsh spellchecker on it.' (Siarad corpus, robert2)
- (15) Gig cynta **chdi** efo Gwil?  
      gig first you with Gwil  
      'Your first gig with Gwil?' (Siarad corpus, davies9)
- (16) Sa **chdi** byth deud ...  
      be.COND you never say.INF  
      'You'd never say ...' (Siarad corpus, davies7)
- (17) Oedda **chdi** 'na?  
      be.PAST you there  
      'Were you there?' (Siarad corpus, davies7)
- (18) Hei, be dach **chdi** 'n ddeud?  
      hey what be.PRES.2S you PROG say.INF  
      'Hey, what are you saying?' (B. M. Jones 1990: 58)

## 2 SYNCHRONIC DIALECT DISTRIBUTION (SPEAKERS BORN 1930S ONWARDS)







### 3 FORMAL ANALYSIS

In grammar 1a (up to 16th century), the language had a weak pronominal form *ti/di* 'you' and a strong form *tydi*. *Tydi* becomes *thydi* by aspirate mutation (indicated by <sup>A</sup>), a regular morphosyntactic

alternation, after  $\hat{a}^A$  ‘with’,  $efo^A$  ‘with’ and  $na^A$  ‘than’. A further purely phonological change leads to grammar 1b (16–18th centuries), where the vowel is lost in the strong form after these same prepositions (hence  $\hat{a} thydi > \hat{a} th'di$  ‘with you’), while  $tydi$  remains in other contexts.

From the outset, agreeing contexts require a weak pronoun, while non-agreeing contexts allow either (depending perhaps on pragmatic factors). I assume that the weak pronoun in agreeing contexts results from surface-level readjustment along the lines of pronoun incorporation analyses of Celtic agreement, via a morphological readjustment rule as with the allomorphy rules of Ackema and Neeleman (2004), or via some similar mechanism (Anderson 1982, Doron 1988, Rouveret 1991, Adger 2000). In (1), the preposition  $\hat{a}^A$  ‘with’, morphologically incapable of agreeing with a pronominal object, allows both strong and weak pronouns after it, while  $am$  ‘about’, which has inflected forms such as *amdanat* ‘about.2SG’, allows only the weak pronoun *ti*:

- (19)  $\hat{a} \text{ th(y)di}$     \**amdanat tydi*    strong  
        $\hat{a} \text{ thi}$               *amdanat ti*              weak  
       ‘with you’    ‘about you’

Similarly, with verbs in (20), the third person singular, often assumed to be a default form manifesting complete absence of agreement, allows either strong or weak forms, while other persons and numbers allow only weak forms:

- (20)  $\text{buasai efo}$     \**buaset tydi*    strong  
        $\text{buasai ef}$               *buaset ti*              weak  
       ‘he would be’    ‘you would be’

This follows from the following lexical specification of the items in question (a full implementation needs  $\varphi$ -features to be split into speaker, hearer, number and gender features to deal with specific issues omitted here for simplicity):

- (21)  $am$                $\text{be.COND}$                $\hat{a}^A$               D              D  
       [u $\varphi$ :   ]    [u $\varphi$ :   ]    [pro: +]    [pro: +]  
       [upro:   ]    [upro:   ]    [ $\varphi$ : 2SG]    [ $\varphi$ :  $\emptyset$ ]  
       ‘about’          ‘would be’        ‘with’        ‘you’        ‘he’

Uninterpretable  $\varphi$ -features are valued by Agree with the  $\varphi$ -features of their complements:

- (22)
- ```

    PP
    /   \
    P    DP/D
    [u $\varphi$ : 2SG] [pro: +]
    [upro: ±]     [ $\varphi$ : 2SG]
  
```

Allomorphy spellout rules regulate the surface realization of these combinations:

- (23) [u $\varphi$ : 2SG]    [pro: +]    >    agreement morphology + *ti*  
       [upro: ±]        [ $\varphi$ : 2SG]  

(24) *am*              [pro: +]    >    *amdanat ti* ‘about you’  
       [u $\varphi$ : 2SG]    [ $\varphi$ : 2SG]  
       [upro: ±]  

(25) *be.COND*    [pro: +]    >    *buaset ti* ‘you would’  
       [u $\varphi$ : 2SG]    [ $\varphi$ : 2SG]  
       [upro: ±]

All other combinations are spelled out word for word:

- (26)  $\hat{a}^A$  [pro: +] >  $\hat{a}$  thi  
[ $\varphi$ : 2SG]
- (27)  $\hat{a}^A$  [pro: +] >  $\hat{a}$  th'di  
[ $\varphi$ : 2SG]  
[FOCUS: +]
- (28) be.COND [pro: +] > buasai ef / buasai efo (as above)  
[u $\varphi$ :  $\emptyset$ ] [ $\varphi$ :  $\emptyset$ ]  
[upro: ±]

In (26) and (27), the aspirate mutation diacritic <sup>A</sup> is interpreted by the phonology as an instruction to implement aspirate mutation on *ti* /ti/ > /θi/ and *tydi* /tədi/ > /θədi/. Reduction of /θədi/ to /θdi/ is also dealt with by the phonetics or phonology.

Later (grammar 2a), learners fail to relate *th'di* to its baseform *tydi*; that is, they fail to treat it as the result of phonological processes and encode it directly in the (morphological component of the) grammar. They create a new spellout rule:

- (29) D > /θdi/ *thdi*  
[u-pro: +]  
[ $\varphi$ : 2SG]  
[FOCUS: +]

The form of the pronoun is therefore no longer conditioned by mutation, the presence of the initial /θ/ thus being determined by the morphology rather than the phonology. The spellout rule in (29) reflects grammar 2a. Some acquirers falsely posit assimilation in /θdi/ *thdi*, taking /θ/ to be the result of assimilation of an underlying /χ/ to the following dental, cf. ‘hyper-correction’ in the technical sense of Ohala (1981, 1992: 22–32). This yields grammar 2b, identical to grammar 2a, except that the spellout rule gives a slightly different output:

- (30) D > /χdi/ *chdi*  
[pro: +]  
[ $\varphi$ : 2SG]  
[FOCUS: +]

The result of the shift from grammar 1 to grammar 2 is that occurrence of *chdi* is not dependent on the presence of a preposition or other element that triggers aspirate mutation; hence, it spreads to any non-agreeing environment, notably to fronted focus position, as in (31).

- (31) ... ond os **ch'di** geiff y lle ...  
but if you get.FUT.3SG the place  
‘...if it's you that gets the place...’ (L. W. Lewis, *Huw Huws* 15, 1860)

The relationship between *ti* and *chdi* as strong forms presumably also resolves itself at this point too. In stage 2 grammars, *ti* and *chdi* differ in that, although both are possible manifestations of the pronoun when it is spelled out as a single word, only the latter spells out the feature [FOCUS: +]. Learners fail to acquire this distinction, treating both as possible spellouts of an undifferentiated strong (that is, non-

agreeing) pronoun. The free variation between the two forms is quickly resolved in favour of *chdi*, hence the lexical entry for *chdi* becomes:

- (32) D > /χdi/ *chdi*  
 [pro: +]  
 [φ: 2SG]

At this point, a number of different innovations begin to develop, broadly classifiable as extension of agreement and loss of agreement.

### 3.1 Extension of agreement

Under extension of agreement, some learners fail to establish that *chdi* is the spellout only of the strong, non-agreeing pronoun. A look at the entire pronominal paradigm in Table 1 makes clear why this should be an attractive hypothesis. Throughout the plural, and in the third person singular feminine, each weak form is paired with a homophonous strong form: differences are purely phonological.

**Table 1. Pronominal paradigms in northern spoken Welsh.**

|               | strong  |     | weak    |     |
|---------------|---------|-----|---------|-----|
| first person  | fi      | ni  | i       | ni  |
| second person | chdi    | chi | ti/di   | chi |
| third person  | fo (m.) | nhw | o (m.)  | nhw |
|               | hi (f.) |     | hi (f.) |     |

Learners extend this pattern to the second person singular, treating *chdi* as forming a homophonous weak–strong pair, analogous to the other cases of this in the paradigm. As a weak form, it can participate in agreement in cases where morphological spellout allows this; that is, individual additions to the agreement allomorphy rule in (23) may emerge. Two specific new rules emerge. The first innovation (grammar 3a), in speakers born in the 1880s, allows *chdi* as the subject of nonfinite *bod* ‘be’, an agreement environment:

- (33)
- ```

    CP
    /   \
    C   TP
    'be'  /
        C   DP/D
        |   [φ: 2SG]
        T   [tense: PRES]
        [force: SUB] [uφ: 2SG]
  
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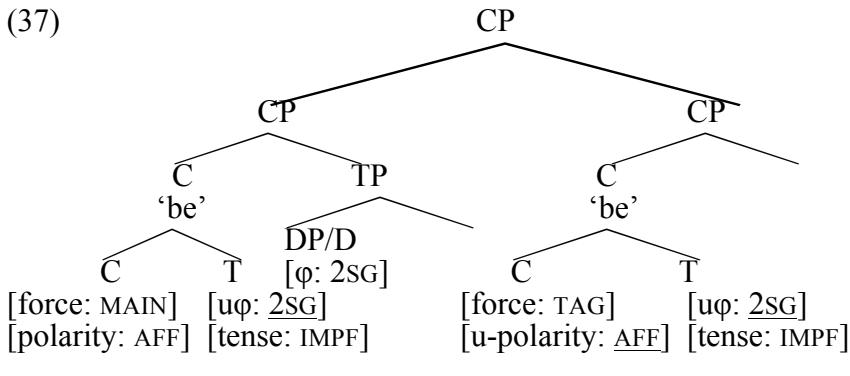
- (34) ‘be’  
 [u-pro: +] [pro: +] > *dy fo(d) chdi*  
 [uφ: 2SG] [φ: 2SG]  
 [tense: PRES]  
 [force: SUB]

- (35) Mae o’n beth rhyfedd iawn **dy fod chdi** ’n priodi rwan.  
 be.3SG it PRED thing strange very 2SG be.INF you PROG marry.INF now  
 ‘It’s a very strange thing that you’re getting married now.’ (Kate Roberts, *Traed mewn cyffion*, p. 108, 1936)

A broadly parallel but probably later innovation introduces special forms of auxiliaries in tag questions. In northern dialects, tags to affirmative clauses are near obligatorily null-subject tags. For concreteness, we can assume that tags are CPs right-adjoined to their host clause and truncated below the CP level. Where a dialect has a new *chdi*-based tag form, then, it has created new agreeing forms of the tag auxiliaries, such as (36), which creates *chdi*-based forms such as the imperfect tag auxiliary (*yn*)*do’chd* (full form (*yn*)*doeddachd*), replacing (*yn*)*do’t* (full form (*yn*)*doeddat*).

- (36) [force: TAG] [uφ: 2SG] > *do’chd*  
 [u-polarity: AFF] [tense: IMPF]

An illustrative derivation is given in (37) for the tag in (38).



- (38) O’dda chdi dal i ffwrdd, do’chd?  
 be.IMPF you still to away, TAG.IMPF.2SG  
 ‘You were away, weren’t you?’ (conwy\_14)

### 3.2 Loss of agreement

A countervailing set of developments concerns the spread of *chdi* via changes in the agreement system itself, with various evidence suggesting that Welsh is losing subject–verb agreement and object–preposition agreement. This change is formalized via a restructuring of the morphological component. The agreeing form fails to be acquired; that is, agreeing heads no longer bear φ-features. Consequently, the morphological spellout rules that make reference to those features are not acquired either. The lexical entry for the preposition *am*, after loss of agreement, becomes:

- (39) AM  
 [u-pro: \_\_\_\_]  
 ‘about’

When adjacent to a pronoun, the two simply spell out separately. If the [u-pro] feature is valued positively, then *am* spells out as *amdana*, previously the stem of the inflected form of the preposition. If it is valued negatively, then the form is *am*, as required with a lexical object. The effect of this in the second person singular is that the pronoun is spelled out as *chdi*, by the spellout rule in (32), since no more specific rule applies:

- (40) AM [pro: +]  
 [u-pro: ±] [φ: 2SG]  
 > *amdana* > *chdi*

The loss of φ-features is a separate development with each individual lexical item, hence individual speakers may vary in terms of which of the heads have lost agreement and therefore switched to using *chdi* as their argument. As well as *amdana chdi* ‘about you’, we find *basa chdi* ‘you would’ in place of *basat ti*, *bydda chdi* ‘you will be’ in place of *byddi di*, *oedda chdi* ‘you were’ in place of *oeddat ti*, *dylia chdi* ‘you should’ in place of *dylat ti*, *gynna chdi* ‘with you’ in place of *gin ti* etc. Type 4 grammars of this type have emerged in speakers born since the 1930s, with their fullest implementation in the youngest speakers today.

### 3.3 Why is there no auxiliary drop with *chdi*?

The final question to consider is why auxiliary drop structure always use *ti* and never *chdi*. All northern speakers produced auxiliary-drop sentences in the second person singular. Responses such as the following were typical:

- (41) Pam ti ’n cerddad mor gyflym?  
 why ø.AUX you PROG walk.INF so fast  
 ‘Why are you walking so fast?’ (gwynedd\_03, qu. 11)

No speakers used *chdi* in this environment. The reason is clear once the entirely paradigm of the auxiliary is considered. The typical northern paradigm for auxiliary ‘be’ is given in Table 2.

**Table 2. Typical paradigm for present tense of *bod* ‘be’ in northern varieties.**

	sing.	plur.
first pers.	dw (i)	da (ni)
second pers.	ø (ti)	da (chi)
third pers.	mae/di (o)	mae/da (nhw)

Within this paradigm, the auxiliary drop of the second person singular is a unique form, and is therefore a spellout of an auxiliary with a φ-feature:

- (42) ‘be’
- |               |          |   |    |
|---------------|----------|---|----|
| [u-pro: +]    | [pro: +] | > | ti |
| [uφ: 2SG]     | [φ: 2SG] |   |    |
| [tense: PRES] |          |   |    |

In order for *chdi* to be possible, this feature would have to have been lost.

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