# The relationship between input factors and bilingual proficiency: Evidence from French-English bilingual children <br> Cathy Cohen 

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# The relationship between input factors and bilingual proficiency: Evidence from French-English bilingual children 

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Introduction
It is widely recognised that a large number of individual factors can account for a child's success or failure in becoming bilingual, including language use, language proficiency and language attitudes. Quality and quantity of input and output have a key role in the bilingual acquisition process (De Houwer, 1995; Yamamoto, 2001; Oller \& Eilers, 2002). Language spoken at home has a considerable influence on oral language outcomes (Verhoeven, 1987; Cobo-Lewis et al., 2002; Gathercole, 2005). Bilingual children's peers have been found to have an important role to play in the development and maintenance of bilingualism (Verhoeven, 1991; Yamamoto, 2001; Oller \& Eilers, 2002; Gathercole \& Thomas, 2005). The language used in school can also play a critical role in whether the minority language is maintained and developed (Yamamoto, 2001; Gathercole \&Thomas, 2005). Bilingual children's cultural attitudes have also been shown to be a good predictor ht overall aim of this presentation is to explore how cetain input

Research questions and hypothesis

1. What is the strength of the relationship between overall language exposure estimates and language proficiency measures in each

What is the strength of the relationship between children's current language input and their scores on the language proficiency measures in each language?
3. What is the strength of the relationship between children's current language output and their scores on the language proficiency measures in each language?
What is the strength of the relationship between the child's stronger language and the following variables related to language use? ne language the child inds easier to speak; the language the child prefers speaking; the language the child finds easier to read in;
the language the child prefers reading in; the child's cultural allegiance; the language used with friends in the playground; the language used with toys; the language the child would choose to use in his/her perfect school.

Hypothesis: There will be a significant positive relationship between each of the sets of variables investigated in the four research questions

## Methods

## Setting

mary section of international state school in France

- 20 hours of school curriculum taught in French, 6 hours taught in English


## Participants

38 French-English bilinguals (23 girls, 15 boys) aged from $6 ; 10$ to $8 ; 3$ ( $M=7 ; 4 ; S D=4$ months); middle to high SES families Second year of primary schoo
4 family types:
$>1$ native French and 1 native English speaking parent ( $N=19$ )
2 native French speaking parents who having lived in an English speaking environment for between 3 and 5 years with their children
2 nolish speaking parents who have been in France with the
2 English speaking parents who have been in France with their children for more than 3 years ( $N=4$ )

## Data collection tools

Language proficiency
British Pessons of he Peabody Picture Vocabulary Test (PPVT)
British Picture Vocabulary Scale-II (BPVS) (Dunn et al., 1997)


* Endish version and Frenalion transatio (SOLOM)
anguage Background and Experiences
Parents' questionnaire


[^0]Results

## Research question 1

Table 2: Pearson corelations between children's percentage contact time
for French and French proficiency measures

| $N=38$ | EVIP | SOLOM |
| :--- | :---: | :---: |
| $\%$ contact time French term | $.37^{*}$ | $.54^{* *}$ |
| $\%$ contact time French holidays | $.38^{*}$ | $.48^{* *}$ |

Tables 1 and 2 show that the language proficiency measures in each language are closely related to overall language exposure estimates provided by parents in each language. So if children's overall exposure to one language is substantially
lower than it is to the other their level of proficiency in each will reflect these exposure differences.

Research questions 2 \& 3

Language input and output in English Table 3: Pearson correlations between language input
measures for English and Englis proficiency measures

| $N=38$ | BPVS | SOLOM |
| :--- | :---: | :---: |
| Mother to child | $.28^{8^{*}}$ | $.48^{* *}$ |
| Fatherto child | $.55^{* *}$ | $.46^{* *}$ |
| Sibingg(s) to child | $.34^{*}$ | $.53^{* *}$ |
| Friends in playground to child | .25 | $.33^{* *}$ |

Sriends in playgrou
$\underset{\substack{* \\{ }^{*} p<0.01 \\ p<05}}{ }$

Table 4. Pearson correlations between language output
measures tor Engisish and Englist proficiency measures

| $N=38$ | BPVS | SOLOM |
| :--- | :---: | :---: |
| Child to mother | $.3^{*}$ | $.62^{* *}$ |
| Child to father | $.52^{* *}$ | $.49^{* *}$ |
| Child to sibing(s) | $.44^{* *}$ | $.56^{* *}$ |
| Child to friends in playground | .24 | $.44^{*+}$ |

Child to sibing(s)

| Chid to firiends in playground |
| :---: |
| $\substack{v_{p} \\ \sim_{p<}<}$ |


| < 0.01 |
| :--- |
| p. 05 |

Tables 3 and 4 show there is a strong association between quantity of input and output in English and the resulting language proficiency. The correlations for output are generally higher than those for input highlighting the importance for bilingual children of using English, the minority language, productively with a range of interlocutors for it to be maintained and developed.
Although children spend proportionately less time with their friends in the playground than they do with their immediate family, there is a definite rearionship between the input and output readings and the language performance readings for interaction with friends in the playground

Language input and output in French

Tables 5 and 6 show that there is generally an associaition between input and output in French and the French profic
than the corresponding results for English
Since French, the majority language, is widely available in a range of contexts beyond the family circle and school friends, the French readings do not represent the children's total contact with French.
overall daily English exposure which is more likely to be linite thidren's with immediate family and, to a lesser degree, with friends. So if English is not present in the home, it will be hard for it to be maintained and developed when the children are still so young.
Research question 4
Table 7 : Spearman correations between child's stronger language and variables related to language use

| $N=38$ | Language child finds easier to speak | Language child prefers speaking | Language child finds easier to read in | Language child prefers reading in | Dominant culture according to parents | Cultural allegiance according to child | Language used with friends in playground | Language used playing with toys | Language used in perfect school |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Child's stronger language | $7^{* *}$ | .46** | .33* | .46** | 74** | . $2^{\text {*** }}$ | .59** | $58^{* *}$ | $43^{\text {+* }}$ |

Table 7 shows there is a clear link between the child's stronger language and each of the variables related to the child's everyday life. So once a child clearly has a weaker language, our findings suggest he/she will be less likely to seek out opportunities to use it. As a result, if language exposure is, indeed, closely associated to language proficiency, if a child chooses to use his/her dominant language rather than the weaker one, proficiency in the latter will inevitably regress.

## Discussion

These results offer compeling evidence for the need to create opportunities to promote the child's weaker language, especially if this is the minority language, available only in a restricted number of domains and, consequently, having fewer potential interlocutors. If specific measures are not taken to help maintain and develop the minority language, it can gradually be lost, particularly if it is not present in the home.
Friends clearly play a key role in the promotion of the minority language. So having friends who are highly competent speakers of the minority language can be determining for its maintenance and development. It is therefore important to find ways of encouraging friendships and interactions with native speakers of the children's weaker language in order to increase contact with it. proficiency in each language, while the influence of the language spoken in the home will tend to diminish. This highlights further the essential role played by friends in the promotion of the minority language


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