

Outline of the Problem:

Most interpreters are late learners of BSL (18+ L2M2)
 Many arrive in undergraduate programmes needing language tuition
 Language learning and interpreter aptitude are often conflated
 We need to identify how to effectively use resources

Scope of the current study:

4 year study
 Catches snapshots of learning
 Gives us information about before and after training
 Identifies linguistic and cognitive skills required for L2M2 learning and interpreting
 Enables the development of a screening test battery

Participants:

Cohort 1 - interpreters in a vocational training setting
 Cohort 2 - undergraduates
 Cohort 3 - expert interpreters (graduates, having achieved full professional status, ≤ 10 years experience)
 Within normal range for Digit Span and Matrix Reasoning

Language tests:

L1 English reading accuracy (Vernon-Warden)
 L2 Non-Sign repetition task (phonological and phonological WM)



Language tests:

L2 BSL grammaticality judgment task (based on Mayberry and Boudreault)



OLD LIVE WOMAN SMALL WHEELCHAIR FLAT ALONE

Study 1: Cohort 1 Phonological sensitivity

Errors handshape > movement > location ($p < 0.001$)
 handshape: substitution ($p < 0.001$)
 internal movement: deletion = addition
 markedness does not affect errors
 correlation between phonological complexity and deletion ($F(1,126) = 27.319, p = .000$)

Summary: Concurs with other evidence (Orfanidou et al, Mann et al) showing this is an artifact of modality not language

Further language tests:

Modern Language Aptitude Test (MLAT)

- I Number learning (WM)
- II Phonetic script (phonetic coding)
- III Spelling clues (phonetic coding)
- IV Words in sentences (grammatical sensitivity)
- V Paired associates (rote learning)

Study 2: Cohort 2 Language Aptitude

Positive correlations between:

MLAT1 and AbB* ($p = 0.020, r = 0.832$)
 MLAT1 and IntA[‡] ($p = 0.025, r = 0.812$)

MLAT total and AbB* ($p = 0.048, r = 0.734$)
 MLAT total and IntA[‡] ($p = 0.020, r = 0.831$)

Summary: MLAT appears to predict semester two (*Ab initio B) and semester 3 (‡Intermediate A) BSL exam results.

What next?

Cohort 2 continue testing and comparing scores with exam results
 understanding learning trajectory of BSL
 differentiating between language learning and interpreting learning

Cohorts 2&3 comparing scores of interpreters in training with expert interpreters

Summary: Understand the difference between prerequisites and professionally developed skills

Further data and analysis:

Patterns - Visual acuity
 Connections - Set shifting
 PASAT - Auditory information processing speed and flexibility
 Flanker - Distractibility
 BIS - Risk taking **Summary:**