

Individual variables in the English classroom: Macro and micro perspectives

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Introduction

- Importance of individual differences
- Problems in connection with researching them
 - Focus
 - Perspective
 - Time



Focus

Problem 1.







Perspective





Time

Problem 3.



time in seconds



Research project

- Investigating learners' motivation, emotions, and self-efficacy in the classroom together. (focus)
- Investigating learners' motivation, emotions, and self-efficacy in the classroom (state) and after solving language tasks (tapping into actual states). (perspective)
- Investigating learners' motivation, emotions, selfefficacy, and engagement/flow after solving language tasks four times over a two-year period. (time)



Context of the present study

- Language learning takes place in formal instructional settings in Hungary
- Hungary: monolingual, with a population of around 10 million people, 99.4% with Hungarian as L1
- Capital city: Budapest with almost 2 million people
- Compulsory foreign language learning:
 - First FL: grade 4 (around age 10), five possible FLs (English being the most frequent);
 - Second FL: Grade 7/9: anything the school can offer
- EU statistics: Hungarian generally score low in FL knowledge compared to other countries





Individual differences and task performance

- Importance of **motivation** (Dörnyei, 2009) and **self-efficacy beliefs** (Mills, 2014) in SLA
- Role of **emotions**
 - Anxiety (Horwitz, Horwitz & Cope, 1986)
 - Positive emotions (MacIntyre, Gregersen & Mercer, 2016)
 - Other emotions? (Pekrun, 2014)
- Engagement/Flow
 - Balance of perceived skills and challenges (Csíkszentmihályi, 1997)
- Relationships between individual differences and task performance have been examined in the past (e.g. aptitude (Kormos & Trebits, 2012); anxiety (Kim & Tracy-Ventura, 2011); creativity (Albert, 2021); working memory (Kormos & Trebits, 2011); etc.) but in isolation.



Research questions

- 1. What are the characteristics of our sample in terms of ID variables like motivation, self efficacy, and different emotions they experience in the classroom (trait-like) and after performing a language task (state)?
- 2. What is the relationship between the variables tapping into general classroom-related experiences and specific task-related ones?
- How can the narrative task performance of our sample be characterised along measures of accuracy, complexity (syntactic and lexical), and quantity of output?
- 4. What is the relationship between the task performance and different individual variables?

Methods

- 52 students (18 male, 34 female, aged 16-18), level A2-B2 (reported by their teachers)
- 1st foreign language (31 English, 17 Italian, 4 German)
- Solving 2 types of written narrative tasks (1 task per student)
- Language performance measures
- Task questionnaire
- ID questionnaire



Questionnaires

- Questionnaire measuring general classroom tendencies:
 - A standardized questionnaire eliciting information concerning a variety of learners' emotions (positive as well as negative), self-efficacy beliefs, and language learning motivation (based on the components of the L2 self system).
- Questionnaire measuring task-related variables:
 - Emotions previously tapped by scales represented by individual items here (emotion labels – confusion, pride, apathy, enjoyment, boredom, surprise, shame, hope, anxiety, curiosity, anger), plus statements about motivation, flow conditions, and self-perceived self-efficacy and selfperceived effort to complete task.



1. A special birthday Your task is to write a story based on these pictures. You may also add stages not shown by the 7 pictures. Please, write at least 200 words.







Tasks









1. A special birthday Your task is to write a story based on these pictures. You may also add stages not shown by the 7 pictures. Please, write at least 200 words.











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Tasks

2. A special birthday Your task is to write a story about a memorable birthday. Please, write at least 200 words.

Task performance measures

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Results – task

	N	Min	Мах	Mean	St. Dev.
Number of words	52	60	395	192.96	59.13
D index	52	31.90	100.79	55.83	15.28
P-lex lambda	52	0.25	2.05	0.82	0.345
Mean length of T unit	52	6.67	14.76	10.58	1.77
Mean length of clause	52	5.45	9.41	7.22	0.89
Clause per T unit	52	1.11	2.20	1.47	0.22
Errors per 100 words	52	0	19.90	5.86	4.33

E·L·T·E



Results of classroom questionnaire									
scale	Items	Cr. Alpha	N	Mean	St. Dev.				
Ideal L2 self	5	0.89	52	4.38	0.79				
Ought-to L2 self	8	0.83	52	3.94	0.75				
Learning experience	5	0.87	52	3.64	0.81				
Self-Efficacy	6	0.93	52	4.38	0.79				
Норе	6	0.88	52	3.98	0.85				
Enjoyment	5	0.80	52	3.58	0.73				
Pride	5	0.88	52	3.29	1.01				
Curiosity	6	0.86	52	3.09	0.83				
Shame	5	0.87	52	2.91	1.05				
Anxiety	5	0.71	52	2.78	0.83				
Confusion	5	0.84	52	2.69	0.91				
Boredom	5	0.89	52	2.41	0.93				
Apathy	4	0.82	52	2.27	1.03				

Results of task questionnaire

E·L·T·E

	Items	Cr. Alpha	N	Mean	St. Dev
Positive emotions	5	0.72	52	2.46	0.87
Negative emotions	6	0.79	52	2.12	0.91
L2 motivated self- system	3	0.84	51	3.01	1.07
Flow/ engagement	4	0.74	51	3.27	0.82
Self-efficacy	3	0.81	51	3.67	0.99





	Relationship between questionnaires								
E·L·T·E	scale	Mean CLASS Q	St. Dev. Class Q	Mean TASK Q	St. Dev. TASK Q	Pearson correlation			
istS DE RO	Ideal L2 self	4.38	0.79	3.32	1.30	.34 (p=0.014)			
State of the state	Ought-to L2 self	3.94	0.75	3.09	1.20	.19 (p=0.169)			
IN STITUTE	Learning experience	3.64	0.81	2.64	1.21	.29 (p=0.039)			
AND ATAK	Self-Efficacy	4.38	0.79	3.44	1.40	.35 (p=0.011)			
	Норе	3.98	0.85	2.23	1.21	06 (p=0.640)			
	Enjoyment	3.58	0.73	2.27	1.18	.28 (p=0.047)			
	Pride	3.29	1.01	2.80	1.37	.30 (p=0.028)			
	Curiosity	3.09	0.83	2.11	1.18	.17 (p=0.224)			
	Shame	2.91	1.05	1.62	1.07	.45 (p=0.001)			
	Anxiety	2.78	0.83	2.05	1.28	.42 (p=0.002)			
	Confusion	2.69	0.91	2.15	1.30	.58 (p<0.0001)			
	Boredom	2.41	0.93	2.50	1.27	.34 (p=0.011)			
	Apathy	2.27	1.03	2.36	1.44	.40 (p=0.003)			



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	Positive emotions	Negative emotions	Motivation	Flow/ engagement	Self-efficacy
Number of words	.174	308*	011	.353*	.288*
D index	157	133	120	042	.228
P-lex lambda	.056	127	.185	090	011
Mean length of T unit	079	282*	.090	.137	.263
Mean length of clause	.179	079	.189	.126	.207
Clause per T unit	241	255	053	.051	.137
Errors per 100 words	132	.147	.085	.011	411**





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Correl	lati	IN	זר

	Positive emotions	Negative emotions	Motivation	Flow/ engagement	Self-efficacy
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D index					
P-lex lambda					
Mean length of T unit		282*			
Mean length of clause					
Clause per T unit					
Errors per 100 words					411**

Conclusions

- Learners' motivations, self-efficacy beliefs and language classroomrelated emotions can be investigated both at a general and more specific (specific language task) levels, and there seem to be moderate relationships between these two.
 - Relationships seem to be stronger in the case of negative emotions, so those learners who experience negative emotions in connection with their language classes are more likely to experience these in connection with any given task than those experiencing positive ones.
 - It seems possible to establish links between task-specific situational variables like motivation, self-efficacy, emotions and flow and task performance measures; these relationships might be context dependent.
 - On this sample, affective variables were related to the the amount of output produced, which might have relevance for SLA (Swain, 2005).

Implications

- Examining several individual variables in concert seems to be a viable approach
- Linking classroom-level and task-level IDs also seems possible
- Thus, it might be useful if in future ID research the princliples applied here would be adopted





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Thank you for your attention! Questions?

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