

Graduate Symposium of SYSU and TUC students on
"Critical Discourse and Corpus Approaches to Systemic Functional **Grammar**"
30th November 2018 in Chemnitz

*Functional Perspectives on New Discourses:
Academic Writing,
Social Media, and
Human-Humanoid Interaction*

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English Language & Linguistics

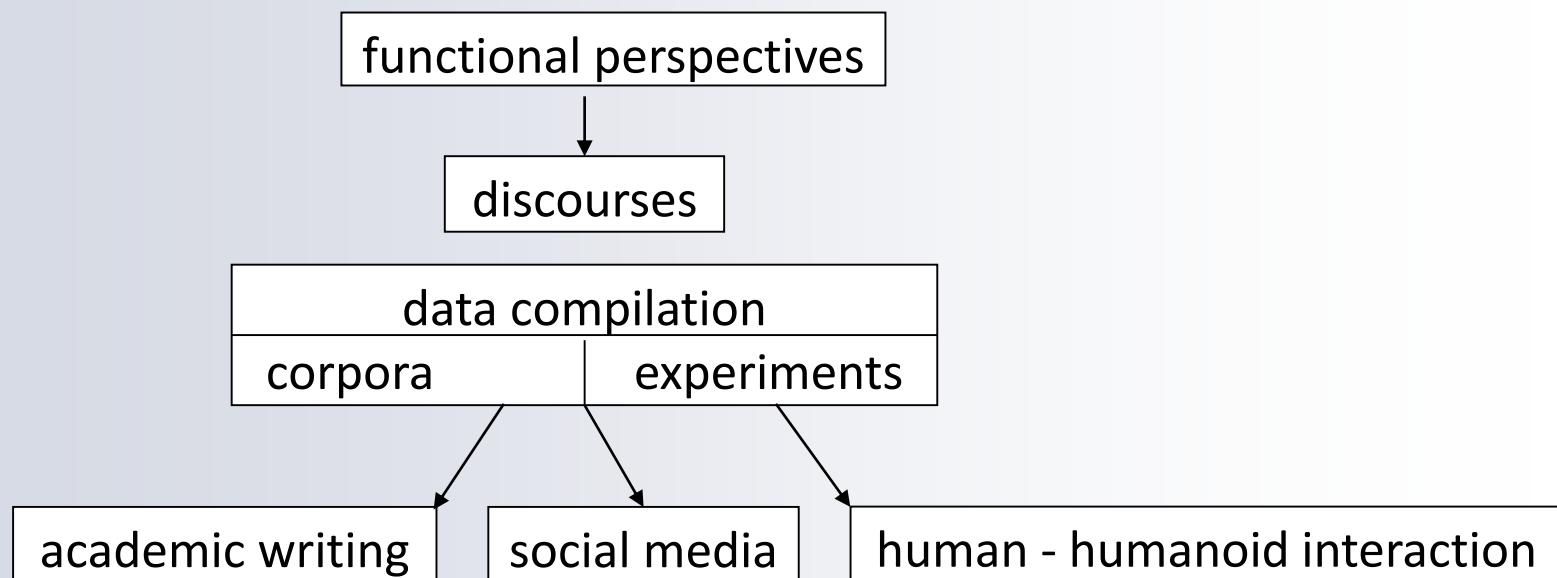
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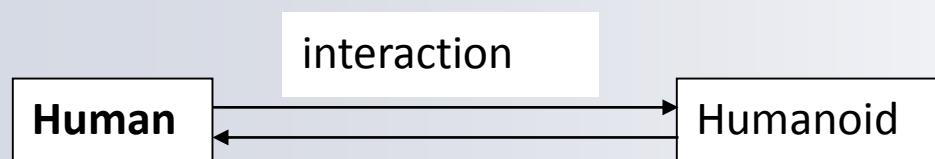
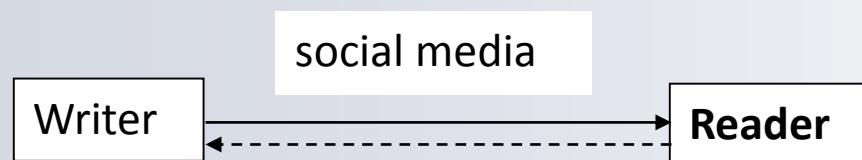
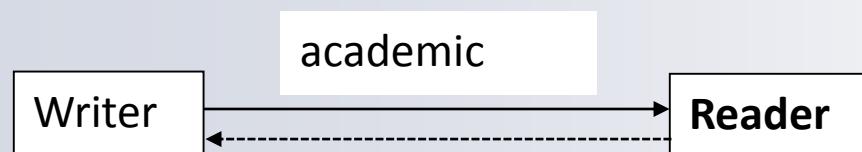
1. Introduction

1.1 Perspectives and new discourses



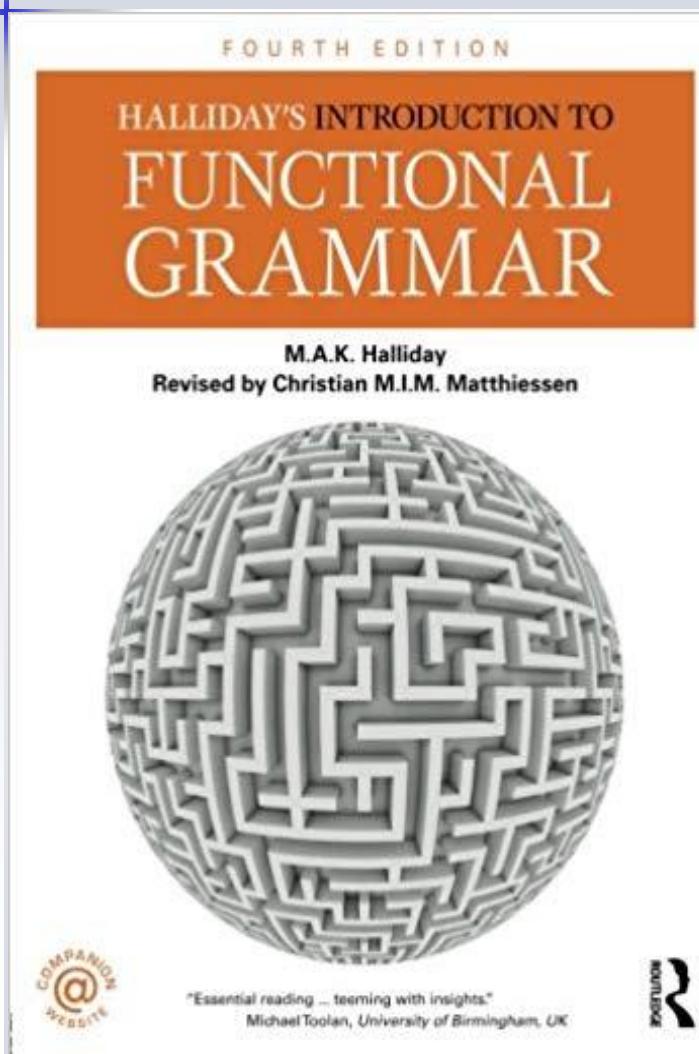
1. Introduction

1.1 Perspectives and new discourses



1.2 Functional Approaches

1.2.1 Halliday/Matthiessen 2014 (SFG)



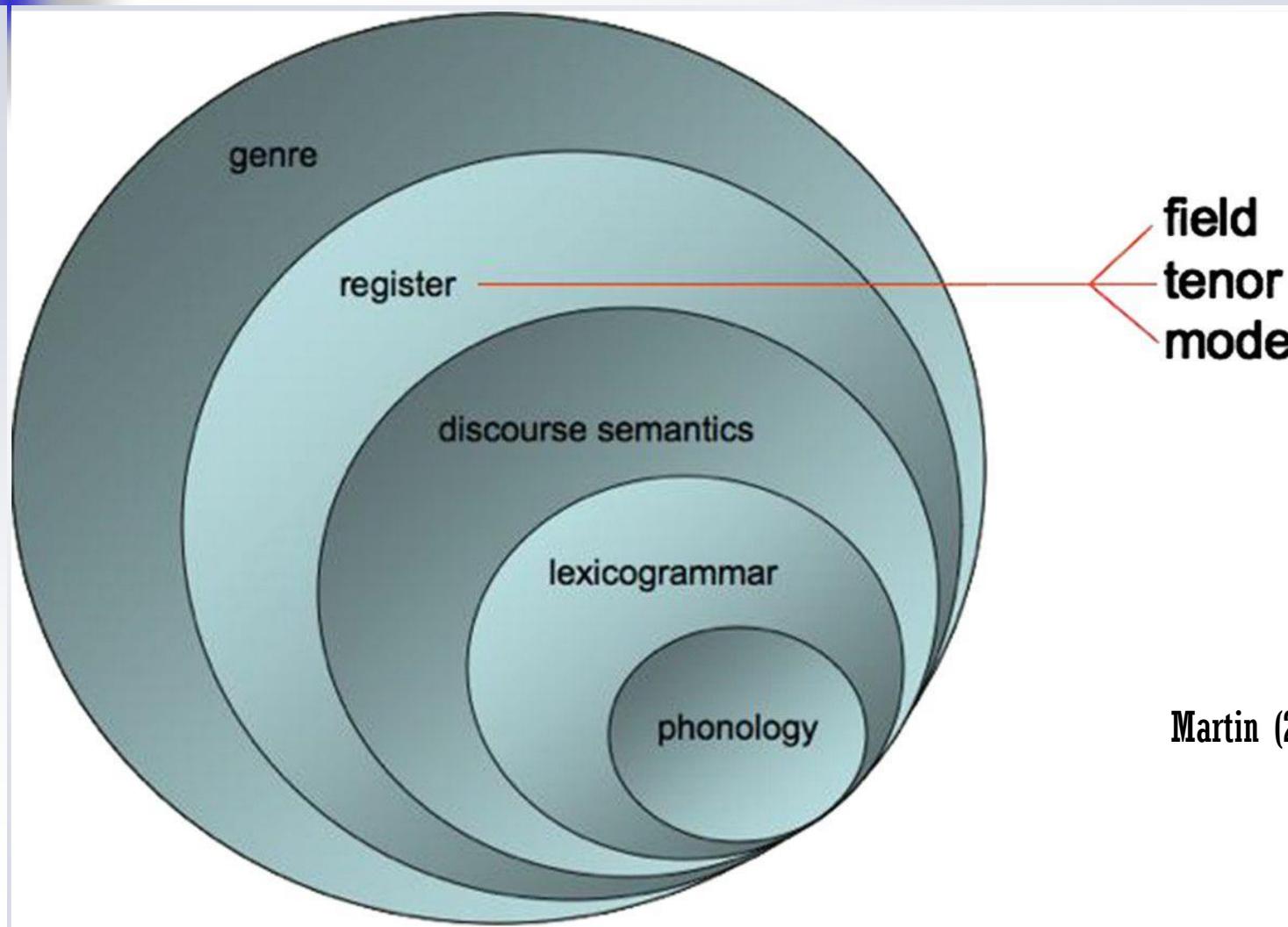
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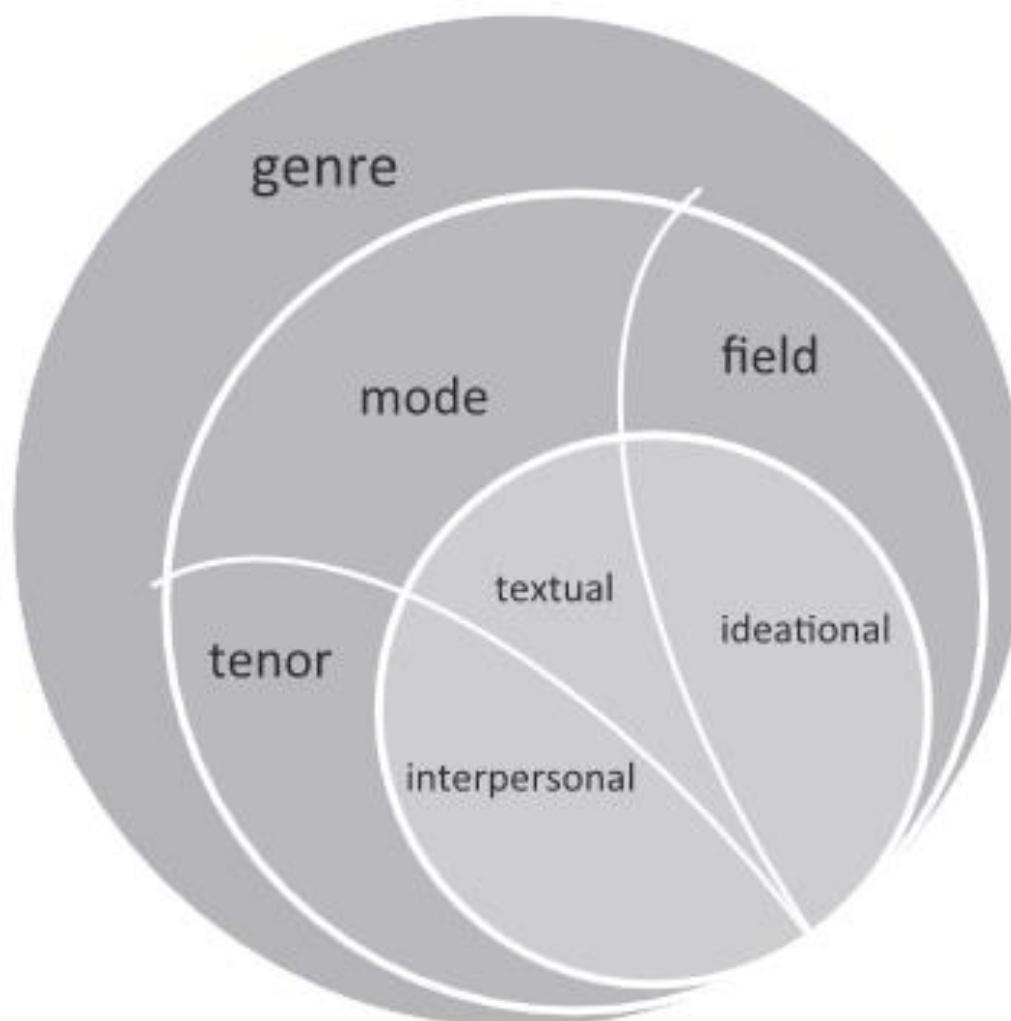
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1.2.2 Functional Approaches: SFG Expansions by Martin



Martin (2011): 14

1.2.3 Functional Approaches: SFG Expansions by Rose



Rose (2014): 3

1.3 Changing media discourses and genres

general definition of discourse from an empirical perspective:

Media is the collective communication outlets or tools used to store and deliver information or data.

dynamic discourse developments over the last 25 years:

computer-mediated communication → all discourse is digital

convergence “new” > “social” > “digital” media

multiple categorisations in different communities of practise:

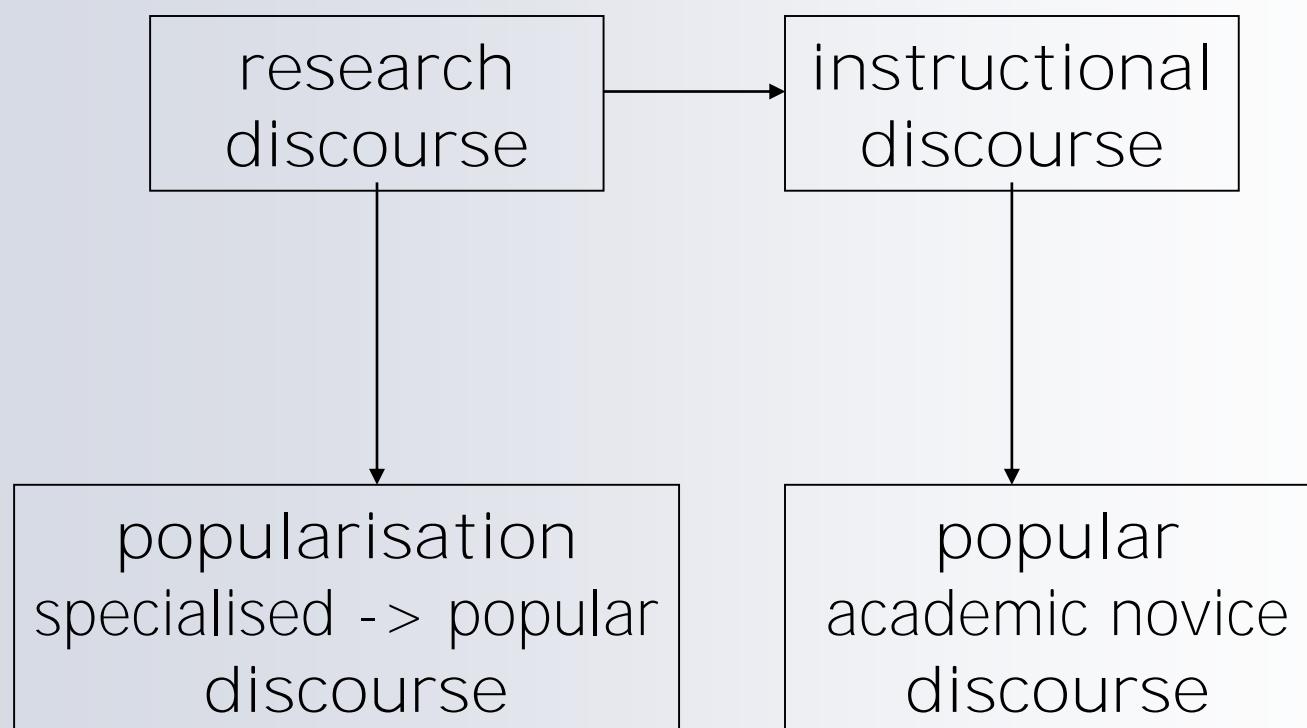
- new platforms for multi-purpose discourses (blogs)
- old discourse media replaced or transformed:
 - letters → email
 - print → on-line newspapers
- new discourses with different text functions / :
 - focus on knowledge construction & dissemination: Wikipedia
 - focus on community building/maintenance: Facebook
 - focus on affiliation: Twitter

hybrids and multi-channels/multimodal, etc.

2. Academic Writing

2.1 Discourses in science communication

discourse community approach (Hyland 2006, 2012; Schmied 2011) =
a writer/speaker appeals to shared knowledge to create a community of discourse
incl. general and specific linguistic clues: *of course, as we know from ...*



2.2 Cohesion

In addition to reference, ellipsis, and lexical organization, conjunctions are 1 of 4 major ways of explicit cohesion (Halliday/Matthiessen 2014: 604)

“conjunction is concerned with rhetorical transitions – transitions between whole ‘messages’, or even message complexes” (ibid: 608)

... “elaborating, extending and enhancing conjunctions mark relations between semantic domains, i.e. between text segments. These text segments are simultaneously ideational and interpersonal; they construe experience as meaning” (ibid: 611).

→ not the real “global perspective yet, but we can experiment ...

2.1.1 Resultative *as a result* (in ChAcEMA)

Concordance Hits 708

Hit KWIC

1 *prejudice, he cannot improve the cultural learning effectively. As a result, it is sincerely hoped tha*

2 *, explain and comment on these behaviors based on their own culture. As a result, unconsciously, their own be*

3 *ential power or ability in the learner that may be developed step by step as a result of internal change through I*

4 *who are strongly influenced by the English language tend to use it. As a result, whenever it is uttered it*

5 *cation of the basic verbs that indicate the desired action directly. As a result, Chinese finds imperative*

6 *of the major languages in the world, reflecting two main cultures. As a result of the reform and open doo*

7 *in apricot forest) to pay tribute to the distinguished doctors, and as a result, “杏林” (apricot forest) ha*

8 *taught to construct an inferential mode in listening comprehension. As a result, we propose that the theori*

9 *vide as an input to the hearer’s inferential comprehension process. As a result, verbal communication can*

10 *the students lack inferential knowledge in their listening practice. As a result, we suggest that the theorie*

11 *prehension but inferential questions were very difficult for them. As a result, we put forward an infer*

12 *special -- but winning as a black American is a knockout.” 36 As a result of her literary and artist*

13 *n who wrote The Pleasure of Enchantment. 60 Moreover, perhaps as a result of the burgeoning field of At*

14 *ts presence within the narrative serves incessantly to disrupt authority. As a result, Beloved makes overt the o*

15 *d it hard to continue the topic, which would make the class mechanical as a result. b) Teachers must be awa*

16 *experience, that they cannot be adequately taught in a classroom. As a result, little attention was direc*

17 *xperiment class they had in fact two more classes than control class. As a result data showed in the inve*

18 *: message or the iconic message can’t avoid ambiguity and subjectivity as a result of over-emphasis on the co*

19 *ategy will be traced out in the direction of conversational implicature as a result of flouting the four conv*

20 *informative as is required”. The deliberate withholding of information as a result of flouting of this sub-maxin*

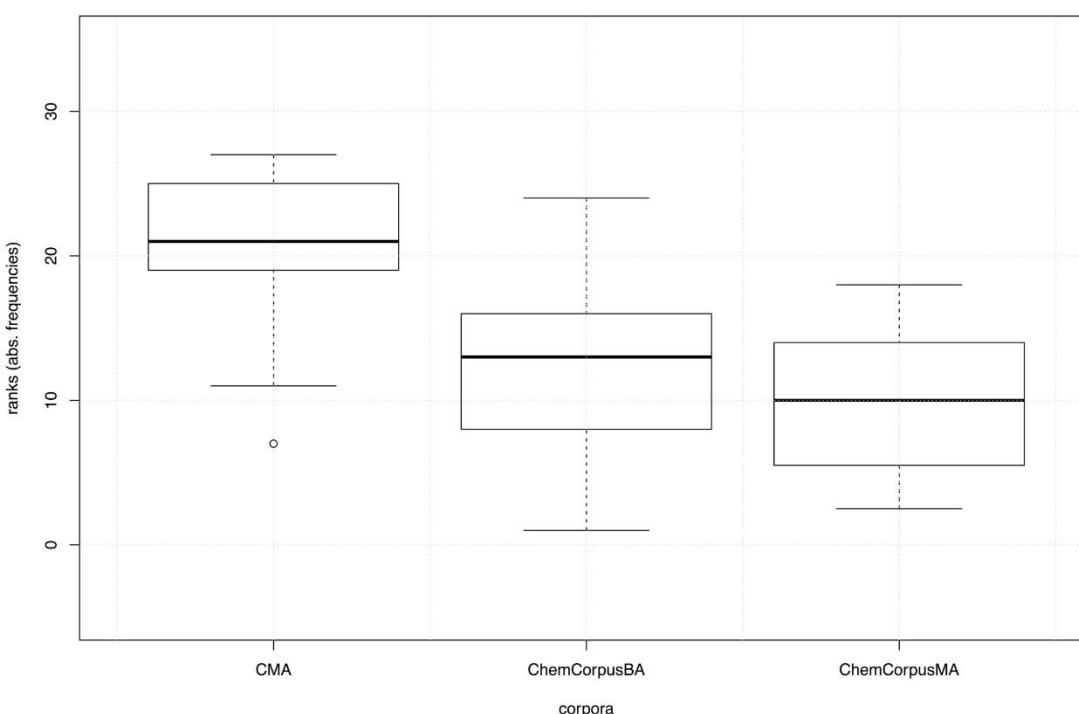
2.1.2 Frequency of semantic conjunct classes in ChAcEMA vs. ChemCorpBA/MA

conjunct type	ChAcEMA (total frequency)	ChAcEMA (per 1M)	ChemCorpBA (total frequency)	ChemCorpBA (per 1M)	ChemCorpMA (total frequency)	ChemCorpMA (per 1M)
Listing/enumerative	21090	4149	3275	4551	1772	3337
Listing/additive	17223	3388	3711	5157	2584	4867
Summative	797	156	268	372	233	438
Appositive	10508	2067	9580	13315	1275	2401
Resultative/inferential	27423	5395	3131	4351	2287	4307
Contrastive/concessive	16768	3299	4376	6082	2900	5462
Transitional	1516	298	216	300	152	286
TOTAL	95325	18756	24557	34132	11203	21101
AVERAGE	13617	2679	3508	4876	1600	3014

2.1.3 Resultative/inferential conjuncts in ChAcEMA vs. ChemCorp

conjunct	ChAcEMA (total frequency)	ChAcEMA (per 1M)	ChemCorpBA (total frequency)	ChemCorpBA (per 1M)	ChemCorpMA (total frequency)	ChemCorpMA (per 1M)
<i>(and) so</i>	10660	2097	646	897	439	826
<i>accordingly</i>	327	64	43	59	48	90
<i>as a result</i>	708	139	70	97	51	96
<i>consequently</i>	356	70	173	240	111	209
<i>for this reason</i>	75	14	24	33	9	16
<i>hence</i>	700	137	229	318	162	305
<i>in this case</i>	235	46	89	123	69	129
<i>in this respect</i>	47	9	58	80	10	18
<i>in this way</i>	659	129	19	26	19	35
<i>of course</i>	408	80	111	154	65	122
<i>so that</i>	1066	209	86	119	39	73
<i>then</i>	4685	921	282	391	206	388
<i>therefore</i>	4229	832	747	1038	397	747
<i>thus</i>	3268	643	554	770	662	1246
TOTAL	27423	5395	3131	4351	2287	4307

2.1.4 Conjuncts (enumerative) quantitative: ChemCorp vs. ChAcEMA



detailed data distribution not good for hard tests,
so (courtesy M. Hofmann):

- frequencies transformed into ranks (Sheskin 2011)
- assumptions: gvlma (=Global Validation of Linear Models Assumptions; Peña & Slate 2006)
- Kruskal-Wallis test
(non-parametric equivalent to ANOVA):
 $\chi^2 = 7.86$, $df = 2$, $p = 0.02$
- Dunn's posthoc test (incl. adjustment of p-values in multiple comparisons according to Holms (1979):

corpus	Z statistic	p value
ChemBA – ChemMA:	0.653504	(0.26)
ChemBA – ChAcEMA:	2.034776	(0.04)?
ChemMA – ChAcEMA:	-2.688280	(0.01)

2.1.5 Cohesive devices (linking, connectors, etc.)

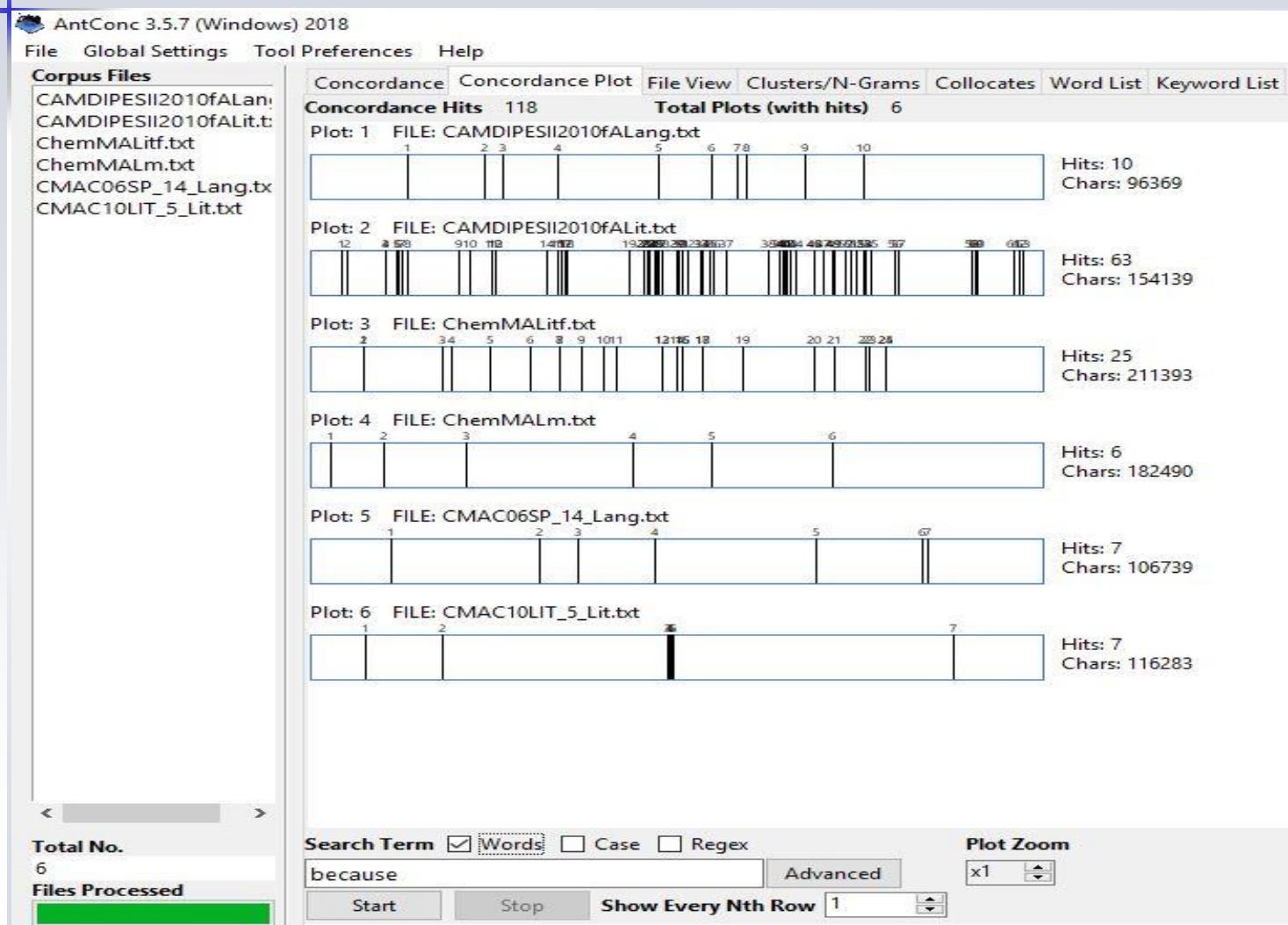
e.g. clause adverbials, characterised by “,”

coherence = extralinguistic factors contributing to the creation of texture (=implicit)

cohesion = linguistic means creating texture (=explicit)

1	It is unfortunately not the case that knowledge of the mechanical	0002AX
2	Unfortunately , an instantaneous comparison was not possible	0003AX1
3	Unfortunately , exact information on gas usage is unavailable	0003AX1
4	Unfortunately , one has no a priori way of predicting	0003AX1
5	Unfortunately , neither easily works.	0003AX1
6	Unfortunately , there are as yet no reliable calculations that	0004AX1
7	Unfortunately our experience is confined to an equilibrium ...	0004AX2
8	Unfortunately , the energy resolution of a neutrino telescope is ...	0015AX
9	... technique to obtain black hole masses which, unfortunately , is unfeasible	0018AX
10	Unfortunately , lack of information about the collective ...	0021AX
11	Unfortunately , the complexity of each subprocess also grows ...	0025AX
12	Unfortunately these theorems tell us practically nothing about ...	0032AX
13	Unfortunately there are very few analytic results available	0040AX
14	Unfortunately , all recent experiments are, in principle,	0043AX
15	Unfortunately , all those exciting recent experiments are	0043AX
16	Unfortunately , those prior art solutions require daunting experiments	0043AX
17	Unfortunately , the NID is uncomputable since the constituent ...	0045AX
18	Unfortunately , in many places such information is getting harder ...	0056NS
19	it's a good protective barrier," says Hildebrand, " unfortunately ."	0069NS
20	Unfortunately , because of the rarity of plant data from this ...	0100PN

2.1.6 Conjunct *because* in 6 Cameroonian, Chemnitz/German, Chinese MA theses



2.2 „flow of discourse“ as rhetorical-relational organization

IMRAD structure in 20 lang./lit. MA samples from Cameroon, Germany, China

Introduction

Methodology

Analysis

Conclusion

disc.	Corpus	Abs	I	IN	IR	IF	M	ML	MC	MT	M RQ RH	MD	MT	A	AE	AT	AS	C	CS	CI	CC	CL	CO
Lang.	CamC	8	10	2	8	9	9	0	0	0	0	9	9	9	6	9	3	10	10	6	1	3	10
	ChemC	4	10	4	4	9	10	0	0	0	0	10	10	10	9	10	7	10	10	9	7	7	9
	ChinC	10	10	3	8	9	5	0	0	0	0	5	5	10	8	9	10	10	10	10	7	8	9
Lit./ Cult.	CamC	10	10	4	4	9	0	0	0	0	0	0	0	10	10	0	0	10	10	10	3	2	6
	ChemC	3	10	1	5	9	3	0	0	0	0	3	3	10	8	5	9	10	10	10	8	1	3
	ChinaC	10	10	0	1	1	1	0	1	1	0	0	0	10	10	0	0	10	9	10	0	1	0

I = issue

IN new

IR relevant

IF focussed

M = methodology

ML literature review

MC key concepts

MT theories

MRQ/MH research questions

MD data base

MT tests/procedure

A = analysis

AE examples as
evidence

AT statistical tables

AS significance

C = conclusion

CS summary

CI interpretation

CC contextualisation

CL limitations

CO outlook

L2H: Establishing the Context and Scoring Validity of an English for Academic Purposes Test

Ling Hung

has a very explicit IMA structure and vocabulary focusses on Introduction/Context and Methodology

Main topic and issues: (IF?) The research aims to establish the validity of two writing tasks in a C1 level English for Academic Purposes test. Evidence is needed in order to see whether the results reflect reliable scores and unbiased marking. The aim of this research is to find evidence for the validity of the two proposed writing tasks (*formal transactional email* and *discussion essay*). The research covers (a) the development stage; (b) the completion of the specifications and the test items; (c) the piloting and pre-testing of test items; and it aims (d) to collect and analyse data to establish scoring validity. (IR) The research has relevant implications for the different stakeholders of the test: development teams of EAP tests, students pursuing university studies in English language higher education, and university admissions staff.

Methodology: (MT) The methodology of generating validity evidence follows Weir's (2005) proposed validation stages using a mixed-method approach. (MT) Literature review, expert judgement, student interviews and textual analysis are to be used for context validity. For scoring validity, apart from establishing validity for the rating procedure, a further objective is to design a checklist-based marking scheme for the writing tasks. (ML) The benefits of a checklist over a scale, and its suitability for level testing are present in the literature (Kim 2011; Struthers et al. 2013). (MT) The dissertation wishes to adapt the methods applied in Lukácsi (2018), and aims at developing two task specific writing checklists for the EAP exam.

Results obtained so far: (MT) As for context validity in the development stage, a small scale research was carried out in connection with the transactional writing task to complement expert judgement. (A/AE/AT) The research through semi-structured student interviews revealed evidence for target language use and tried to map the different topics and the writing demands of English language correspondence in a university context.

C1S: Representation of Society in Media Discourse: Media Discourse on Teachers and their Role in Society in Selected British Periodicals

**Cult Slov
focusses on Methodology
has no Analysis, only a short Conclusion**

(IR?) The study will look at the media coverage afforded to teachers and their role in society in selected British periodicals. It aims to explore the attitudes of selected newspaper articles on the position of teachers in society, the public perception and construction of beliefs and attitudes to teachers and their community role in the face of social changes. (IR) The goal is to investigate the media coverage afforded to the notions of educational issues concerning teachers in UK and their role in society in politically opposed newspapers in order to elucidate the ideological representation of the teacher's profession and to examine the approach which reflects the nature of the selected newspapers representing opposite ends of the political spectrum as well as different qualitative content. (MD) The research focuses on articles published between 2015 and 2018 when the Conservative Party secured a surprise victory and a majority single-party government was formed. In order to do the analysis, a collection of newspaper articles selected from the primary sources will be chosen to create a corpus. The research is aimed at two quality newspapers – *The Guardian* with its centre-left orientation and *The Daily Telegraph* with a pro-Conservative position. In terms of the popular newspapers the research looks at the left-oriented *Daily Mirror* and the right-oriented *Daily Mail*. (MT) A combination of an interpretative approach to newspaper discourse with a comparative cross- analysis method supported by the corpus-driven methods of Critical Discourse Analysis will be used to detect particular language patterns of collocations and concordance lines which enable the researcher to choose a key word and see patterns in representation as well as view the context that the word falls in. (MRQ/MH) The use of the above-mentioned methods should prove the hypothesis that portrayals of teachers and teachers' issues are stereotyped and manifested with an explicit and implicit, predominantly negative connotation, regardless of the occurrence in quality or tabloid, liberal or conservative press. (CO) The exploration of the image of the teacher via the press could provide another source for the thematic study of media culture, school culture, pedagogy, stereotyping in media, human rights and power relations.

IMRAD structure in 10 language and 10 literature MA samples from Yaoundé

Introduction Methodology

Field-of-Study	File-Name	A	I	IN	IR	IF	M	M_L	MC	MT	MRQ														
Language	CAMDIPESII2010mA_006	□		□			□	□	□	□	□														
Language	CAMDIPESII2010mA_009	□		□			□	□	□	□	□														
Language	CAMDIPESII2010mA_016	□		□		□	□	□	□	□	□														
Language	CAMDIPESII2010mA_017	□		□		□	□	□	□	□	□														
Language	CAMDIPESII2010mA_031	□	□	□	□	□	□	□	□	□	□														
Language	CAMDIPESII2010mA_013	□	□	□	□	□	□	□	□	□	□														
Language	CAMDIPESII2010mA_015	□	□	□	□	□	□	□	□	□	□														
Language	CAMDIPESII2013mA_119	□	□	□			□	□	□	□	□														
Language	CAMDIPESII2012mA_081	□	□	□	□	□	□	□	□	□	□														
Language	CAMDIPESII2018mA_121	□	□	□	□	□	□	□	□	□	□														
Total-Language		8	10	2	8	9	9	0	0	0	9	9	9	6	9	3	10	10	6	1	3	10			
Lit./Culture	CAMDIPESII2010mA_001	□	□	□		□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□		
Lit./Culture	CAMDIPESII2010mA_002	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□		
Lit./Culture	CAMDIPESII2010mA_003	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□		
Lit./Culture	CAMDIPESII2010mA_004	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□		
Lit./Culture	CAMDIPESII2010mA_005	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□		
Lit./Culture	CAMDIPESII2011mA_044	□	□	□		□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□		
Lit./Culture	CAMDIPESII2012mA_057	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□		
Lit./Culture	CAMDIPESII2012mA_068	□	□	□		□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□		
Lit./Culture	CAMDIPESII2012mA_074	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□		
Lit./Culture	CAMDIPESII2012mA_082	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□		
Total-Lit./Culture		10	10	4	4	9	0	0	0	0	0	0	0	0	0	10	10	0	0	10	10	10	3	2	6
TOTAL		18	20	6	12	18	9	0	0	0	0	9	9	19	16	9	3	20	20	16	4	3	16		

Cameroon

Lit/Cult theses have no methodology
Lang may have no abstract
all tend towards detailed conclusions

IMRAD structure in 10 language and 10 literature MA samples from Chemnitz

Introduction

Methodolo

Chem

some Lit/Cult theses have little methodology
 many have no abstract
 all tend towards very detailed conclusions

Field of Study	File Name	A	I	IN	IR	IF	M	ML	MC														
Language	ChemMA2016f_001																						
Language	ChemMA2016f_002																						
Language	ChemMA2013f_004																						
Language	ChemMA2012f_005																						
Language	ChemMA2013f_015																						
Language	ChemMA2016m_003																						
Language	ChemMA2012m_014																						
Language	ChemMA2012m_016																						
Language	ChemMA2016m_017																						
Language	ChemMA2009m_018																						
Total Language		4	10	4	4	9	10	0	0	0	0	10	10	10	9	10	7	10	10	9	7	7	9
Lit./Culture	ChemMA2014f_007																						
Lit./Culture	ChemMA2015f_009																						
Lit./Culture	ChemMA2013f_011																						
Lit./Culture	ChemMA2014f_012																						
Lit./Culture	ChemMA2010f_020																						
Lit./Culture	ChemMA2014m_006																						
Lit./Culture	ChemMA2014m_008																						
Lit./Culture	ChemMA2016m_010																						
Lit./Culture	ChemMA2014m_013																						
Lit./Culture	ChemMA2010m_019																						
Total Lit./Culture		3	10	1	5	9	3	0	0	0	0	3	3	10	8	5	9	10	10	10	8	1	3
TOTAL		7	20	5	9	18	13	0	0	0	0	13	13	20	17	15	16	20	20	19	15	8	12

IMRAD structure in 10 language and 10 literature MA samples from China

Introduction Methodology

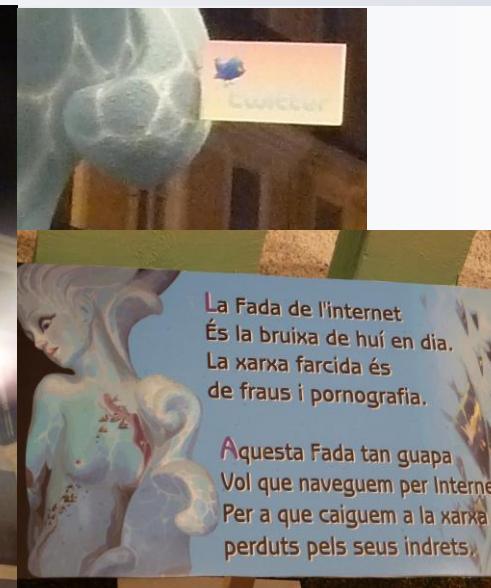
Chinese

Lit/Cult theses have no methodology
all have an abstract

Lang tend towards more detailed conclusions

Field of Study	File Name	A	I	IN	IR	IF	M	ML	MC																		
Language	CMAC05ME_23																										
Language	CMAC05PR_21																										
Language	CMAC05RE_18																										
Language	CMAC05SE_22																										
Language	CMAC05SY_18																										
Language	CMAC05WR_20																										
Language	CMAC06MO_18																										
Language	CMAC06PH_19																										
Language	CMAC06SP_14																										
Language	CMAC12PH_2																										
Total Language		10	10	3	8	9	5	0	0	0						5	5	10	8	9	10	10	10	7	8	9	
Lit./Culture	CMAC05LIT_28																										
Lit./Culture	CMAC09LIT_32																										
Lit./Culture	CMAC10LIT_5																										
Lit./Culture	CMAC10LIT_7																										
Lit./Culture	CMAC10LIT_15																										
Lit./Culture	CMAC10LIT_21																										
Lit./Culture	CMAC11LIT_16																										
Lit./Culture	CMAC12LIT_10																										
Lit./Culture	CMAC12LIT_12																										
Lit./Culture	CMAC12LIT_17																										
Total Lit./Culture		10	10	0	1	1	1	0	1	1	0					0	0	10	10	0	0	10	9	10	0	1	0
TOTAL		20	20	3	9	10	6	0	1	1	0					5	5	10	18	9	10	20	19	20	7	9	9

3. Social Media



3.1 National discourses & norms from Twitter data



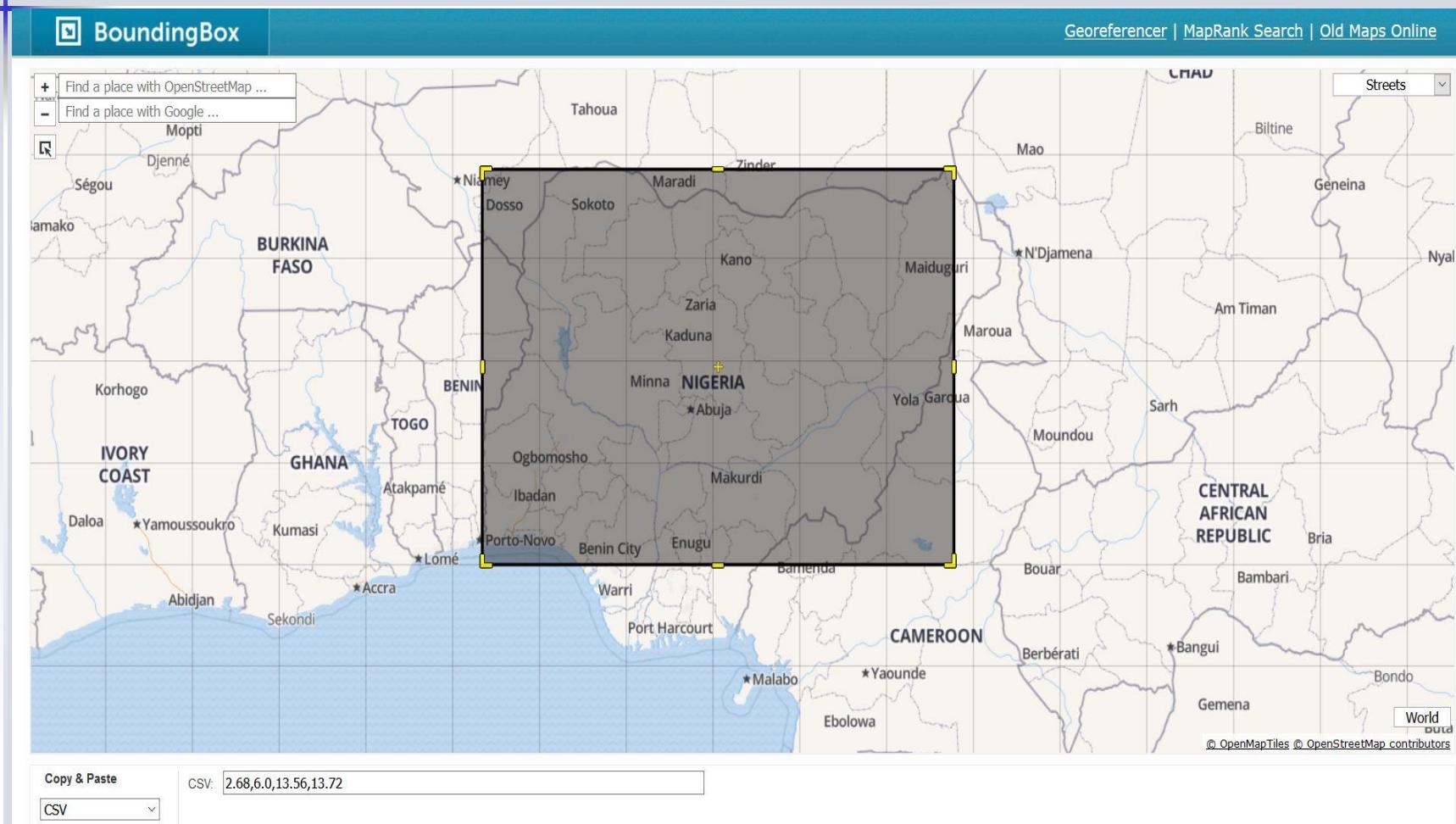
Akinwunmi Ambode @support4ambode · 6 Apr 2015

Re-tweet if you believe that irrespective of Tribe or Religion, the prosperity of Lagos is a prosperity for all.

1 Akinwunmi Ambode, Holuseun, Mr. JAG and 5 others



2.1 Data collection from Twitter in Nigeria (Lagos, Kano)



2.2 National discourses in Nigerian elections: “good governance”



Subscribe To Nigerians Report Online

Posts

All Comments

Breaking News Africa

«

»

Showing posts with label **Good Governance**. [Show all posts](#)

L

Monday, May 17, 2010

Digital Policy Council Identifies Prime Minister of Malaysia as a Role Model for Good Governance on the Net

17 May 2010 09:50 Africa/Lagos

God Bless Nigeria!



WORLD NEWS UPDATE

Digital Policy Council Identifies Prime Minister of Malaysia as a Role Model for Good Governance on the Net

The Digital Policy Council latest research investigates the potential of new media technologies to advance good governance in Muslim-majority nations.

African News Updates



Three outstanding African innovations walk away with Innovation Prize for Africa (IPA) 2017 total cash prize of US\$150 000

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Winning innovations demonstrate high level of proficiency in energy efficient and healthcare-related solutions

Nigeria Today

4. Human-humanoid interaction

4.1 From Alexa to Sophia



Calling All Robot Bachelors: Sophia the Robot Might Want to Start a Family

4.2 Nov. 2018: New Humanoid reading the news in Chinese and English

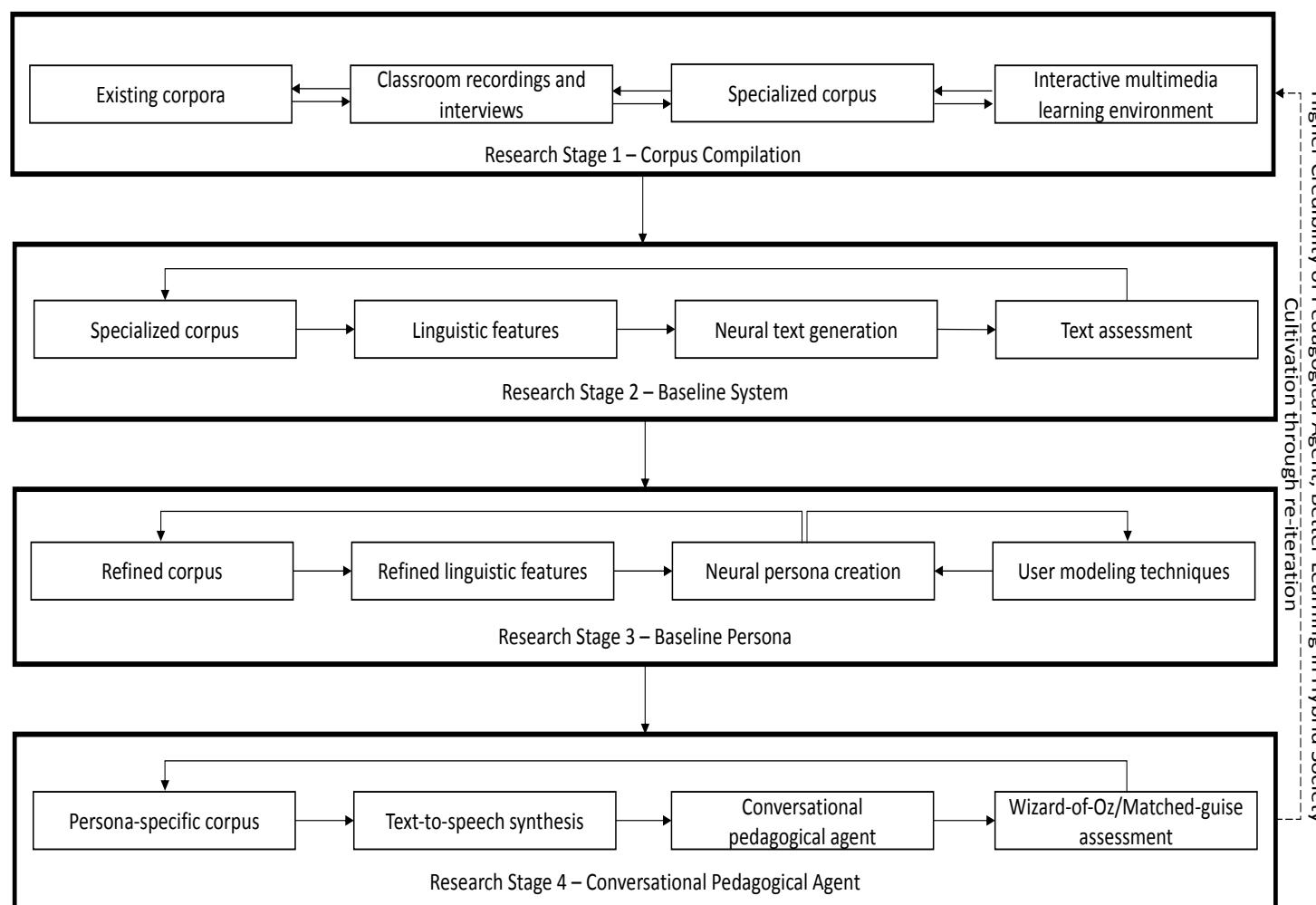


4.3 Humanoid Teachers Research questions and interface

- 1) Can success in human-machine and machine-human discourses be maximized by using deep artificial neural networks to generate and employ digital personae?
- 2) Can virtual conversational pedagogical agents gain credibility as discourse partners? Are they accepted by human learners as valuable discourse partners?

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4.4 Iteration of four research stages of the Humanoid teacher



5. Conclusions

5.1 New discourse data from digital media

new discourse genres replace traditional ones (letters → emails)
easy digital access to difficult discourses, half-way to spoken

5.2 Old and new research

new digital discourses, tools and techniques offer new research opportunities

- to pick up old research questions and
- to raise new ones;
- to demonstrate that we can all make a contribution to DH and
- to “advertise” humanities’ discourses as an important contribution to our universities and societies

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