Linguistically annotated corpus of documentary papyri: PapyGreek (Paratypa, Sematia)

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Digital Grammar of Greek Documentary Papyri (PapyGreek) ERC Starting Grant, No. 758481

Results from the Genitive Absolute queries

Marja Vierros and Polina Yordanova. (Forthcoming). Querying syntactic constructions in Ancient Greek parsed corpora: a case study on the genitive absolute in literature and documentary papyri. In Novokhatko, Anna, Stylianos Chronopoulos and Felix Maier (eds) *Classics*@ CHS

GA in literary corpora (1)

Genre/ writer	Corpus: Writers	sentences with GA	GA / Number of sentences	
Epic and drama	AGDT: Hesiod, Aeschylus, Sophocles, Ps-Homer	, Sophocles,		
Plato	Gorman: Apology AGDT: Euthyphro	2,4%	2,7%	
Xenophon	Gorman	6,2%	7,3%	
Aristotle	Gorman	4%	4,8%	
Rhetorics	Gorman: Antiphon,Aeschines, Lysias 5th/4th BCE	6,5%	6,7%	
	Gorman: Demosthenes 4th BCE	10,5%	13,2%	

GA in literary corpora (2)

Early historical prose	Gorman + AGDT: Herodotus	9%	10%
	Gorman + AGDT: Thucydides	11%	13%
Later historical prose	Gorman + AGDT: Polybius (2nd BC)	18%	22%
	Gorman + AGDT: Diodorus Siculus (1st BCE)	25%	31%
	Gorman: Dionysius Halicarnassus (1st BCE)	13%	15%
	Gorman: Josephus (1st CE)	11%	13%
	Gorman + AGDT: Plutarch ((1st/2nd CE)	17%	21%
	Gorman: Appian (2nd CE)	21%	26%

GA in documentary papyri (PapyGreek Sematia)

Text type	Text count	Texts with GA (% of texts within type)	GAs within type (% of GAs within corpus)
Letter	153	17 (11%)	24 (19%)
Petition	44	37 (84%)	91 (71%)
Contract	21	5 (24%)	5 (4%)
Other types	7	4 (57%)	7 (5%)
Text type not defined	25	1 (4%)	1 (0.8%)

Summary on the GA (1)

- it was one element in the stylistic repertoire of especially historical narrative writing, more popular in the Hellenistic and Roman periods
- in papyri most common in petitions, which mainly consist of a narrative of some event when the petitioner has been maltreated
- everyday letter writing had no place for the GA (more official letters could use it)

Summary on the GA (2)

- The suggestions that in Koine Greek the GA's are more often **not "absolute"** (i.e. the subject of GA plays syntactic role in the matrix clause; extreme case: subject of the matrix clause and subject of GA coincide, see below):
 - cannot fully be searched computationally
 - qualitative analysis from small sample of papyri reveal that ca. 20% were not absolute

ἀπελθόντος μου ἀπὸ σοῦ <u>κατέλαβον</u> τοὺς γεωργο[ὺς]... ἀνακεχωρηκότας... (P. Cair. Zen. 2 59245, 1)

apelthontos mou apo sou katelabon tous georgous... anakechorekotas

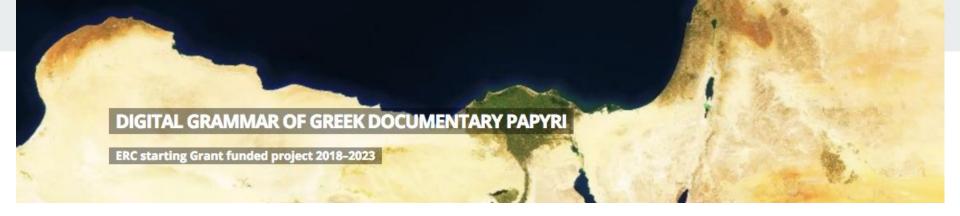
PTC:gen.m. PR.1sg.gen.m discover:1sg

After I left you, I discovered that the peasants ... had fled...

PapyGreek project and platform







Marja Vierros, PI (morphosyntax)

Sonja Dahlgren postdoc (phonology)

Erik Henriksson (developing infrastructure) Polina Yordanova PhD candidate (word order, treebanking)

Research assistants (shorter time periods)

Arttu Alaranta, Petri Lahtinen, Jamie Vesterinen, Iida Huitula, Sari Kock

DIGITAL GRAMMAR OF GREEK DOCUMENTARY PAPYRI

Project website: https://www.helsinki.fi/en/researchgroups/digital-grammar-of-greek-documentary-papyri Platform: https://papygreek.hum.helsinki.fi/

PapyGreek platform

(https://papygreek.hum.helsinki.fi/)

- Variation: Paratypa, search tool for orthographic variation + treebanks
- Sematia: Layering and preprocessing the EpiDoc XML texts for treebanking
- Integrated Arethusa annotation tool (originally developed for the Perseids Project (Tufts)
 - o Guidelines 2.0 (G. Celano) < Guidelines 1.1. (D. Bamman & G. Crane 2008)
 - PapyGreek guidelines for papyrological structures and for keeping the corpus uniform
- Addition of metadata for treebanked texts (author / writer / addressee, text type)
- In progress!

Paratypa

- Dynamic search tool for orthographic variations in the papyri
- Queries differences between the original text and editorial markup (ORIG vs. REGularized)
- The whole Duke Databank of Documentary Papyri -corpus, updated regularly
- Preceding and following context can be defined (immediate or further; word/line/sentence initial or final etc.)
- E.g. $<\lambda i\pi >$ written instead of $<\lambda \epsilon i\pi >$ = addition of $<\epsilon >$ by the editor



Variations



Diacritic sensitive

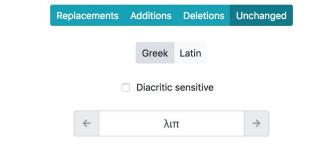


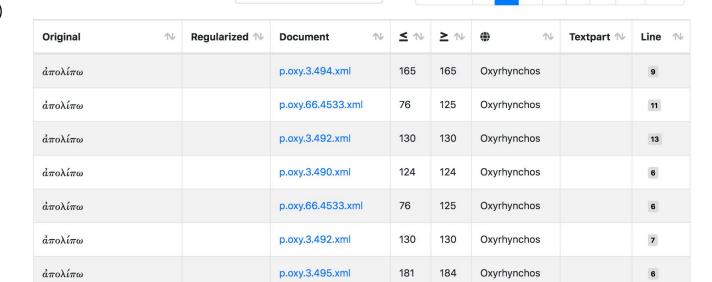
nowing 1 to 50 of 8	87 entries Filter:					Previous 1	2 Next
Original ↑	Regularized 1	Document ↑↓	≤ ∿	≥ ↑	• 1	Textpart ↑↓	Line ↑↓
_ἀδιαλίπτως	_ἀδιαλείπτως	bgu.8.1854.xml	-45	-44	Herakleopolites		4
άδιαλ <i>ι</i> π	ἀδιαλείπτως	sb.14.12168.xml	130	130	Oxyrhynchites		19-20
ἀδιάλ ιπτόν	ἀδιάλειπτόν	p.lond.5.1658.xml	301	400	unbekannt	r	6
άδιαλ <i>ίπτω</i> ς	ἀδιαλείπτως	p.panop.7.xml	338	339	Panopolis		5
άδιαλ <i>ίπτω</i> ς	ἀδιαλείπτως	psi.9.1037.xml	301	301	Oxyrhynchos	r	17
άδιαλ <i>ίπτω</i> ς	ἀδιαλείπτως	sb.14.12088.xml	346	346	Oxyrhynchos		13
άδιαλίπτως	ἀδιαλείπτως	p.oxy.1.83dupl.xml	328	328	Oxyrhynchos		12-13
ἀδιαλ ίπτως	ἀδιαλείπτως	p.oxy.47.3354.xml	257	257	Nomu (Oxyrhynchites)	r	19

Comparing to the correct spellings

<\lambda in > written
correctly (not
corrected by editor)

Showing 51 to 100 of 1,205 entries Filter:





Previous

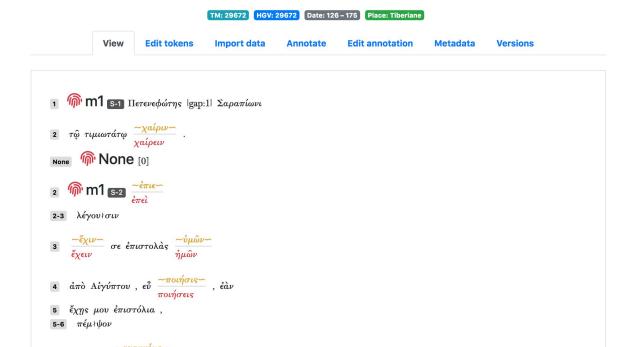
Next

Layering the original and regularized text for annotation

- Two layers will be externally annotated for morphology and syntax (in Arethusa)
- Regularizations highlighted
- Automatically parsed morphology is utilized for regularized part (Leuven-Pedalion data), syntax not yet

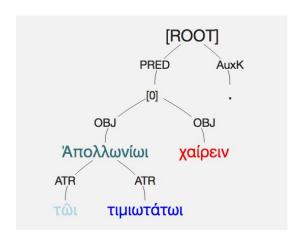
o.claud.2.252.xml

SEMATIA



Regularized

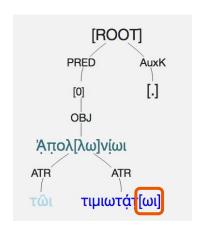
[0] |gap:7| Άπολλωνίωι τωι τιμιωτάτωι χαίρειν.





Original

|gap:7| [0] Ἀπολ[λω]νίωι τωι τιμιωτάτ[ωι] [χαί]ρει[ν] [.]





Lacunae interpreted; here Apollonios can be annotated, χαιρειν left out





The ending is in a lacuna, not marked as dative in the original layer

Demo

Paratypa Variations

Main question: genitive and dative variation

Looking more closely at **second declension singular endings -ou vs. -ω**: