

Monica Berti
(Leipzig)

Digital Canons and Catalogs of Fragmentary Literature

In the last decades scholars have shown the importance of the context for analysing fragments of lost authors and works. The digital environment allows to expand this possibility and represent textual fragments as annotations of single elements belonging to both the quoting and the quoted text. A part of this aspect is constituted by the annotation of the language of bibliographic references within our extant sources.

This paper presents a DFG funded project that is producing a catalog based on the extraction, analysis, and annotation of Greek references to fragmentary authors and works.

Combining methods of Digital Philology and Computational Linguistics, the project is producing a structured collection of lemmatized and annotated named entities related to authors and works including fragmentary ones.

Given the lack of ancient Greek data for entities about bibliographic citations, the goal is to adopt methods of Named Entity Recognition (NER) for extracting and annotating each occurrence of ancient Greek named entities about authors and works (i.e., names of authors and titles or descriptions of works with variants and ambiguities in the original contextual language).

Annotations are generated and released according to standards of Computational Linguistics and Linked Ancient World Data in order to guarantee data sustainability and portability.

Lemma: Θεόπομος [Theopompos]	
lemma in LOGGION	
Inflected form: Θεόπομον [Theopomon] - search in Kaibel Q	
inflected form in TLG	
Named Entity Class: PER	
10. 8 [	καὶ αὐτὸς ἦν πολυλόγος προειρήκαμεν, παραβήμεναι Θεόπομον ἱστοροῦντα ἐν τῇ πέμπτῃ καὶ τριακοστῇ]
11. 63 [	Θυατειριανὸς τὸ χωρὶς ὀπίων ποτήριον ὀνομασμέναι Θεόπομον ἐν Μήδω Φυλίμων Φασματι: ἐπεὶ δ']
Inflected form: Θεόπομος [Theopompos] - search in Kaibel Q	
inflected form in TLG	
Named Entity Class: PER	
1. 42 [	γυναικῶν ἀνακείμενοι ὑπὸ τῷ αὐτῷ ἱματίῳ. Θεόπομος: ἐπίνομεν μετὰ ταῦτα κατακείμενοι μαλακώτατ']
1. 47 [	ταῖς ἔξεισι τῶν πέντων πλείστον χρόνον. Θεόπομος: δέ φησι παρὰ Χίους πρώτους γενέσθαι]
1. 61 [	ὅτι ὁ Θεόπομος ὁ Χίος τὴν ἀμπελον ἱστορεῖ εὐρεθῆναι]
2. 18 [	ἐκδιδοῦσιν εἰς αὐτὸν κρίνης τινὸς μικρὰς. Θεόπομος: δέ φησι περὶ τὸν Ἐρινύωνα ποταμὸν]
2. 23 [	καθάπερ καὶ τὸν Φρύγῃα Μίδα φησὶ Θεόπομος, ὅτε ἔλειν τὸν Σελήων ὑπὸ μέθης]
2. 35 [	δ' αὐτομάτισαν τὰ μμαικεῖα' ἐφόητο πολλὰ. Θεόπομος: τρύγοισι μύρτα καὶ πέπωνα μμαικεῖα. Κράτης:]
2. 62 [	διὰ τοῦ φ ἀσφάραγον ὀνομάζει. καὶ Θεόπομος: κάπειτ' ἴδιον ἀσφάραγον ἐν θάμνῳ τινι.]
2. 77 [	καὶ παρ' Αἰσχύλῳ: διαβρέχεις τάρτυματα. καὶ Θεόπομος: δέ φησι: πολλοὶ μὲν ὄρνυματων μέδμηνοι,]
2. 78 [	σφύρ' ὀδει μῆλλον ἢ σκυρὸς πέπων. Θεόπομος: μαλακώτερα πέπωνος σκυροῦ μοι γέγονε. Φαίλιος:]
3. 12 [	αὐτὴν τὴν δίφορον σκυρὸν κάτω. ὁ Θεόπομος: δέ ἐν τῇ πεντηκοστῇ τετάρτῃ τῶν]
3. 23 [	τὰ δὲ φαυλότεροι φαυλίον μῆλων. καὶ Θεόπομος: ἐν Θηαῖ Ἀνδοσίων δ' ἐν τῷ]
4. 25 [	ἐφευρίσκουσι τινα καινὴν ἡδονὴν ἀργυρίου πλῆθος. Θεόπομος: δ' ἐν τῇ τριακοστῇ καὶ πέμπτῃ]
4. 25 [	ὡς ταχέως ἀπολούμενος, ὁ δ' αὐτὸς Θεόπομος ἐν τῇ τεσσαρσκαίδεκάτῃ τῶν Φιλιστικῶν ὅταν,]

Named Entities Concordance (Digital Athenaeus)

Occurrences of the word forms of the author name Θεόπομος

http://www.digitalathenaeus.org/tools/KaibelText/named_entities_concordance.php?what=Θεόπομος|lemma

The project is currently focused on extracting annotations from the *Deipnosophists* (ed. Kaibel) as part of the *Digital Athenaeus* project (<http://www.digitalathenaeus.org>). Annotations will be later expanded to the *Lexicon of the Ten Orators* of Harpocration and to the *Suda* lexicon. Annotations allow to visualize these references in their original context offering new and dynamic text-based tools that are not available in existing indices and catalogs. This work offers new results about the language of ancient Greek

bibliographic citations by documenting them with an immediate, full, and complete contextual analysis of their occurrences.

The paper will present a few examples focusing on the following topics:

- Lemmatization of entities related to a catalog of Greek authors and works;
- NE classes and subclasses for Greek fragmentary authors and works;
- Digital libraries metadata for catalogs and canons of fragmentary authors and works;
- Annotations and visualization within the context.

All these topics will be framed in the following open questions:

- How are Greek authors and works referred to in ancient sources? Recent bibliography focuses on fragments and textual reuses in their context, but not on the linguistic expressions that introduce these fragments and reuses (i.e., names of cited authors, titles, and descriptions of cited works).
- How can we produce a fully commented resource that also allows us to visualize ancient Greek bibliographic citations in their context? The text of Athenaeus is particularly relevant to explore ancient citation practices and also to analyse his method and the kind of resources he consulted to collect his citations. What can we infer from these citations about the method of Athenaeus? Which resources did Athenaeus have at his disposal? Modern bibliography has addressed these questions in separate publications with partial data related to single literary genres and fragmentary authors. We miss a complete and commented collection of all the expressions used by Athenaeus to refer to authors and works in the *Deipnosophists*.
- Can we adopt methods from Linguistics to extract the elements of this language and annotate them in a way that fully represents the complexity of ancient Greek bibliographic references?

