

## University of Potsdam: DraCor Tool Fellowship



### Visiting fellowship contact

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<https://dracor.org/>

Founded in 1991, the **University of Potsdam** (UP) has developed from a small institution of higher education into one of the leading medium-sized universities in Germany. Nearly 21.000 young people study here, at the largest university in the Federal State Brandenburg. Research Focuses at the UP are: Data-Centric Sciences, Earth and Environmental Systems, Evolutionary Systems Biology and Cognitive Sciences.

The **Network for Digital Humanities** at the UP (“DH Network at UP”) unites researchers from the fields of Computational Literary Studies, Digital Media Science, Computational Linguistics, Information Visualization, Data Sciences, Cognitive Systems, Library Science, and Archival Science. It is located at the Faculty of Arts and functions both as a service and a research institution.

## Existing tools, services and expertise

**DraCor** is a platform for hosting, federating, integrating, access and generic analysis of corpora with dramatic texts, based on the ideas of Open Access and Open Source. The corpus-files are stored in TEI format. Based on these corpora, DraCor offers various services, each of which uses open source state-of-the-art technologies (API: Based on eXist-DB, SPARQL Endpoint, Packages for R and Python; Frontend: Based on React, Bootstrap and Sigma.js; Shiny server, ...)

DraCor provides researchers with a technologically advanced infrastructure for transparent and highly functional hosting of corpora on an open access platform. Via generic analysis implemented in the front-end and via the Shiny app, DraCor also offers low-threshold access for entry-level users. At the same time, expert users have access to all advanced digital usage scenarios via the API and via access to raw data (TEI files). Users can benefit from the whole spectrum of DraCor services: a) They can analyze the multi-lingual corpora stored in DraCor using the generic tools implemented in the DraCor frontend; b) They can store their own corpora on DraCor and use the implemented tools and the API; c) They can develop their own analysis tools (e.g. Shiny apps, Jupyter or R notebooks) and connect to DraCor using the API; (d) they can query the linked open datasets in relation to the LOD Cloud.

## Aim of the fellowship

The **DraCor tool fellowship** is aimed at researchers who wish to develop or adapt their own digital analysis tools for the DraCor platform. The fellowships serve as an introduction to the DraCor API as well as the joint conceptual development of an embedding of the tools in the open DraCor environment.

The aim of the fellowship is to coordinate corpus infrastructure on the one hand and research-driven tool development on the other. Applicants are expected to be familiar with at least one of the programming languages used within the DraCor ecosystem (R, Python or xQuery).

As a part of their fellowship, the fellows will be assigned a local mentor for their project. Fellows will join the DraCor development team during their stay. Airfare, housing and subsistence costs of the fellows will be covered by the CLS INFRA funding.

