

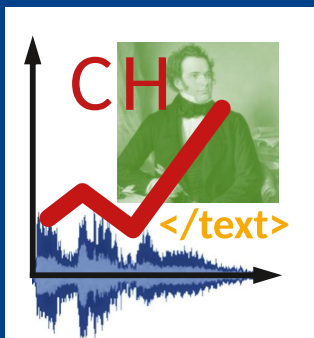
Master of Science

# COMPUTATIONAL HUMANITIES

Interdisciplinary Study Program

Julius-Maximilians-

UNIVERSITÄT  
WÜRZBURG



Faculty of Mathematics and Computer Science



Faculty of Arts and Humanities



ZPD studio for audio-visual culture

## Aims and Content

**Interdisciplinary Focus:** The program combines **advanced computational techniques** with **humanities research**, teaching innovative approaches to the analysis of cultural, historical, and social data.

**Multimedia Analysis:** You will learn to handle **text, audio, image, and video data** in computational analyses, enabling you to work with diverse media formats within humanities research.

**Skill Development:** You will develop **skills in programming and data analysis**, and a strong understanding of how to apply **digital tools** to humanities disciplines such as linguistics, musicology, history, and arts.

**Critical Thinking:** You will critically examine the **ethical, cultural, and societal implications** of using **computational methods** in the study of human culture.



ZPD building

© Tom Bauer AD PHOTOGRAPHY

## Program Structure

**Study Program:** Available as a **120 ECTS Single Major** or as a **45 ECTS Major** with a second major in the humanities, such as literary studies, musicology, history, linguistics, art history, archeology, and many more!

### Overview:

1	Deep Learning + Computational Text Analysis
2	Natural Language Processing + Computational Music Analysis
3	Research Project + Elective Courses
4	Master's Thesis + Colloquium

### Requirements:

#### Bachelor's Degree (180 ECTS)

60 ECTS **Digital Humanities**

or equivalent qualification

Including at least:

10 ECTS **Mathematics**

5 ECTS **Programming**

5 ECTS **Machine Learning**

20 ECTS **Humanities subject**

e.g., Literary studies, Linguistics,  
Musicology, History, Philosophy, ...

**English Language Skills (B2)**



## Studying in Würzburg

The **Julius-Maximilians-Universität Würzburg (JMU)** has an international reputation for excellent research and is proud to be home of outstanding researchers.

A large part of this program will be held at the new **Center for Philology and Digitality (ZPD)** and will be closely connected to research conducted at the **Center for Artificial Intelligence and Data Science (CAIDAS)**.

More information for international students at the International Office ([www.uni-wuerzburg.de/en/international/studying-in-wuerzburg/](http://www.uni-wuerzburg.de/en/international/studying-in-wuerzburg/)).





## Careers and Perspectives

Graduates of the Computational Humanities program are equipped with a **broad range of skills** that bridge AI technology, data science, and the humanities. This opens up a **wide range of career paths** in both traditional and emerging fields:

- Data Science & Analysis
- Cultural Heritage & Preservation
- Artificial Intelligence & Natural Language Processing
- Digital Humanities Research & Teaching

### The Future of the Field:

With **rapid technological advancements**, such as AI, the demand for professionals who understand both the technical and human aspects of data is **steadily increasing**. The skills developed in this program will not only prepare you for **current opportunities**, but will also position you at the forefront of **emerging fields** in the Digital Humanities.

# Computational Humanities at a Glance:

**Interdisciplinary Approach:** Combines a technical focus on computational methods (e.g., AI) with humanities.

**Bridging Media and Culture:** Embraces various modalities and cultural domains, including text (literature), audio (music), video (film), and image (art).

**International Study Program:** All courses in English.



[go.uni-wue.de/ch-master](https://go.uni-wue.de/ch-master)



(German) Video

## Contact

Computational Humanities  
Julius-Maximilians-Universität Würzburg  
Campus Hubland Nord / ZPD  
Emil-Hilb-Weg 23  
97074 Würzburg

E-Mail: [dh-ch-study@uni-wuerzburg.de](mailto:dh-ch-study@uni-wuerzburg.de)  
Tel.: +49 931 31-80079  
[go.uni-wue.de/ch-master](https://go.uni-wue.de/ch-master)