

# *LANGUAGE TECHNOLOGIES AND DIGITAL HUMANITIES*

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# Key information

- **Degree program class: LM43 *METODOLOGIE INFORMATICHE PER LE DISCIPLINE UMANISTICHE***
- Nominal duration: 2 years, 120 CFU
- Departments: Studi Umanistici (reference Department)
- Informatica; Studi Storici; Filosofia e Scienze dell'Educazione; Lingue; Psicologia; Giurisprudenza (other Departments)
- Teaching mode: blended
- Language: English
- Teaching seat: Turin
- Maximum Student numbers every year: 60 after colloquium



# Occupational and professional opportunities for graduates

- Designer of digital environments in digital domain
- Digital publishing specialist
- Corporate digital communication specialist
- Cultural communication specialist in digital media
- Data linguist, Language engineer, Computational Linguist in the Natural Language Processing domain
- Specialist in the use of digital textuality
- Specialist in the design and management of digital media
- Cultural ICT Consultant
- Digital Cultural Asset Manager



# Stakeholders

- **Fondazione 1563**
- **CELI**
- **AIUCD**
- **CERENCE**
- **AMAZON**
- **Archivio di Stato**
- **De Agostini**
- **Loescher**
- **Cliomedia**
- **Centro Gobetti**
- **Musei Reali**
- **Polo del Novecento**
- **Municipalities of Moncalieri and Pinerolo**
- **Alatin**



# Internships

- The above mentioned stakeholders will offer internships and opportunities to prepare the final dissertation within their structures
- We will organize two workshops during the course to facilitate contact between stakeholders and students in view of the definition of internships and the final dissertation.
- We are preparing international agreements to facilitate student mobility at Erasmus + level



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**No other similar  
courses  
in Northwestern Italy**



# Profiles: Digital philology and linguistics

- **Digital humanist / umanista informatico: profile with skills in creating, managing and using datasets and ability to design and manage digital archives for research and dissemination / communication initiatives, to be implemented in the cultural and multidisciplinary, interactive and interoperable fields;**
- **Digital philologist: expert profile in philology, cladistics and the use of digital text formats, with attention to the extraction of data even with distant reading techniques**
- **Linguist and digital lexicographer expert in the creation, management and use of corpora and digital archives**
- **Digital Historian**



# Profile: Language technologies

- **Data linguist: profile with strong basic language skills (lexicon, syntax, semantics, pragmatics), skills in the creation and management of annotated corpora (multilingual datasets) and other linguistic resources, design and development of conversational interfaces, design and testing of information extraction systems;**
- **Language engineer: profile with strong machine learning skills, creation and use of Natural Language Processing pipelines, automatic classification, conception and development of new NLP algorithms, creation of statistical models for language;**
- **Computational linguist: profile that includes the skills of the Data linguist and of the Language Engineer**





# Career Plan

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	Courses	Domain	CFU	TAF
	3	INF	36	B
	2/3	IUS / STO	10/18	B
	3/4	HUM	12/24	B
	2/3	IUS / STO / PHIL / INF-PHIL / HUM	12/18	C
Choice	1	—	8/12	D
Training		—	6	
Further knowledges		—	6	F
Final dissertation			18	
	12		120	



# Disciplines : Informatics

A) Linguistic Resources for Natural Language Processing: 12 CFU

a.i) Computational Linguistics (6CFU)  
a.ii) Resources for NLP (6 CFU)

B) Languages, methods and tools for developing NLP applications: 12 CFU

b.i) Introduction to programming (6 CFU)  
b.ii) Learning from data (6 CFU)

C) Technologies for Multimodal Data Representation and Archives: 12 CFU

c.i) Digital Archives (6 CFU)  
c.ii) Linked Data and Knowledge Graphs (6CFU)



# Disciplines: Philology and Linguistics

L-FIL-LET/15-L-LIN/14 – Digital German Linguistics and Philology (R. Cioffi / L. Gaeta):

L-FIL-LET/04 – Digital Latin (A. Balbo / M. Manca);

L-FIL-LET/09-12 Digital Italian Philology and History of Italian Language (G. Noto / M. Quaglino / M. Rivoira);

L-FIL-LET/10-11 – Digital Italian Literature (E. Mattioda / R. Palumbo Mosca)

L-FIL-LET/15 – Digital Philology (R. Rosselli Del Turco);

L-LIN/03-05 Digital French & Spanish Literature (B. Monginot / G. Carrascon);

L-OR/07-19-21 – Research Methodologies in Asian and African Studies (S. Stafutti / A. Mengozzi / A. Consolaro);

L-LIN/02 – 01: Speech Technology and Data-driven Corpus Analysis  
(E. Corino – A. Romano)





# Disciplines: Philosophy and Psychology

- M-FIL/04 – Aesthetics (P. Kobau);
- M-FIL/06 – Distant Reading in the History of Philosophy (G. Bonino / P. Tripodi);
- M-FIL/02-INF/01 – Digital Asian Philosophy (M. Cestari – A. Pelissero)
- M-PSI/01: (I. Ronga)



# Information and contact

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- Prof. Andrea Balbo ([andrea.balbo@unito.it](mailto:andrea.balbo@unito.it))
- <https://www.digitalhumanities.unito.it/do/home.pl>
- **We are waiting for you!!!!**



# Grazie per l'attenzione

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