HUMAN LANGUAGE TECHNOLOGY A RESEARCH FIELD THAT HOLDS A UNIQUE POSITION BETWEEN LINGUISTICS & COMPUTER SCIENCE

Human Language Technology is a rapidly developing field of research. In humanisties research nowadays a firm background in language technology is extremely valuable in the context of manipulating large datasets. The Computational Lexicology and Terminology Lab (CLTL) offers a specialization in the research master Humanities in which students are trained as linguistic engineers. A linguistic engineer has knowledge of language technology as used in computer applications (e.g. search engines) and of the relevant linguistics.

WHY STUDY AT VU AMSTERDAM?

The Computational Lexicology and Terminology Lab (CLTL) is one of the world's leading research institutes in linguistic engineering. Prof. Dr. Piek Vossen, winner of the NWO Spinoza Prize, leads the group of researchers and several interdisciplinary projects, including the Spinoza project 'Understanding Language by Machines'. Become part of an international group of researchers at VU Amsterdam!

CAREER PROSPECTS

You can set up your own field of research as a PhD student or you can embark on a career at a research institute. Other opportunities are in the industry, which is in need of linguists with a technical background. Being a graduate of the CLTL will certainly enhance your chances.

ADMISSION REQUIREMENTS

- Applicants must have a Bachelor's degree in Linguistics, Artificial Intelligence or a comparable Bachelor programme, with an average grade of minimally 7.5.
- Applicants who do not meet the requirement(s) are also encouraged to apply, provided that they have a sound academic background and a demonstrated interest in and knowledge of engineering and/or linguistics.



"IN THIS STUDY I DISCOVERED HOW LANGUAGE REALLY WORKS; FIGURE IT OUT ONCE AND THEN TEACH THE COMPUTER!"

Chantal van Son, PhD at the Computational Lexicology and Terminology Lab (CLTL) WWW.CLTL.NL/LE

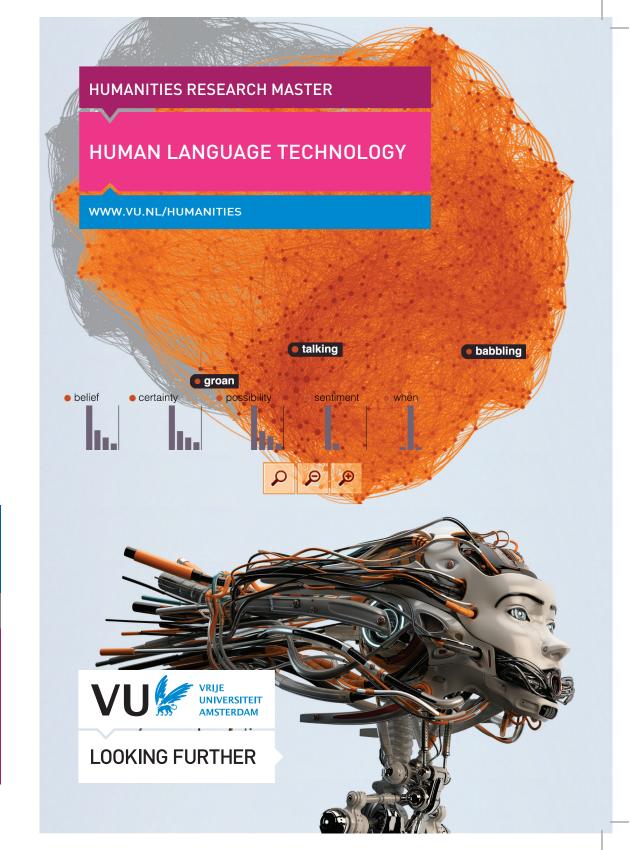
HUMAN LANGUAGE TECHNOLOGY
HUMANITIES RESEARCH MASTER
DURATION: 2 YEARS FULLTIME
DEADLINE: APRIL 1 (NON-EU STUDENTS)
1 JUNE FOR DUTCH AND EU STUDENTS

SCHOLARSHIPS

We are proud to offer support for highly motivated and excellent students:

- * The VU Fellowship Programme (VUFP) for EU and non-EU students
- * The Graduate School of Humanities offers three scholarships for excellent students from the Netherlands and other EU countries

Application date: before February 1, 2017



PERIOD 1

GENERAL LINGUISTICS [9EC]

Advanced introduction to grammatical notions and theories that are used as analytical tools in applied linguistics. Aim: deepen knowledge of grammatical theory & of current approaches to phonology, morphology and syntax.

DIGITAL & ENVIRONMENTAL HUMANITIES (6 EC)

Introduction to the history and philosophy of the Humanities, to the VU research environment and the cross-cutting themes Digital Humanities and Environmental Humanities. How can we connect Humanities research with societal challenges?

COMPUTATIONAL LEXICON (6 EC]

YEAR 2

(9 EC)

[6 EC]

In this course, you will learn about the most influential lexicons in the world. WordNet and FrameNet not only capture major properties of languages but are widely used in Natural Language Processing and language technology.

LINGUISTIC RESEARCH PROJECTS

You will collaborate with different CLTL

searchers, read background literature

and write a report. You will learn about

PYTHON PROGRAMMING FOR

You learn the basic skills: how to make your own program and run it from a command line. We gently submerge you into the world of Python. You learn the basics of programming in Python, applied to pro-

TEXT ANALYSIS (9 EC)

cessing text.

PERIOD 2 & 3

HUMANITIES RESEARCH CAREER PREPARATION (6 EC)

Through intensive training and supervision you will learn to write a research proposal for (inter)national science foundations, and learn to design and position an innovative humanities research project.

exciting international projects at the frontier of science.

SUBJECTIVITY MINING

research projects, interview the re-

Subjectivity is part of reality and this is especially apparent in language. You will learn how to model subjectivity relations in text and how to automatically detect and analyse subjectivity in large text collections such as tweets, news, product reviews.

MACHINE LEARNING

(9 EC)

NLP algorithms based on machine learning are widely used for the understanding of language by machines and in analysing big data. Students will become familiar with the principles behind supervised and unsupervised techniques and will learn to apply the tools and algorithms in research projects.

HUMANITIES IN SOCIETY [6 EC]

This is the first Humanities research design course: you will train to position yourself in the international research field and learn to design and present innovative Humanities research. You will also take active part in the lectures of the Graduate School of Humanities.

NATURAL LANGUAGE PROCESSING TECHNOLOGY (9 EC)

Many different resources and toolkits for processing text already exist and can be used freely. You will learn what these NLP tools are, how to use them, the good features and the less good features. Programming skills are not required.

TERM PAPER

(9 EC)

Writing a paper outline forces you to define the boundaries of your research. Secondly, it helps to organize your ideas and to present them in a cohesive and logical form. And of course you will profit from detailed feedback.

NATIONAL RESEARCH SCHOOL (6 EC)

All students enrol with a Humanities National Research School at the start of their study. You may choose a selection of courses, masterclasses, summer or winter schools for 10 EC - over 2 years.

PERIOD 4

PERIOD 5 & 6

THESIS (30 EC)

MORE INFORMATION

Human Language Technology is a track of the Humanities Research Master, specialization Linguistics For more details on the programme, admission and application: WWW.VU.NL/MA-LINGUISTICS WWW.CLTL.NL/LE Dr. H. D. van der Vliet Email: h.d.vander.vliet@vu.nl

LEGEND:

- Obligatory for all students of the VU Humanities Research Master
- Obligatory for all students of the Linquistics Research Master specialization
- Courses in the track Human Language Technology
- Optional courses: summer/winter school at a National Research School