A RESEARCH FIELD THAT HOLDS A UNIQUE POSITION BETWEEN LINGUISTICS AND COMPUTER SCIENCE

Language technology is a rapidly developing field of research. In humanistic 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 Linguistics in which students are trained as linguistic engineer. 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 UNIVERSITY 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 NWO Spinoza Prize, is leading the group of researchers and several interdisciplinary projects, including the Spinoza project 'Understanding Language by Machines'. Become part of an international group of researchers in Amsterdam at VU University!

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 for linguists with a technical background. Being a graduate of the CLTL will certainly enhance your chances.

ADMISSION REQUIREMENTS

- Applicants must have at least a Bachelor's degree in Linguistics, Artificial Intelligence or a comparable Bachelor programme.
- 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

SPECIALIZATION: LINGUISTIC ENGINEERING IN RESEARCH MASTER: LINGUISTICS
DURATION: 2 YEARS FULLTIME
DEADLINE: APRIL 1 (NON-EU STUDENTS), JUNE 1 FOR DUTCH AND EU STUDENTS

MORE INFORMATION

For more details on the programme, admission and application:
Department of Language, Literature and Communication
Faculty of Humanities
WWW.VU.NL/MA-LINGUISTICS
WWW.CLTL.NL/LE
Dr. H. D. van der Vliet: +31 (0)20 5986466
EMAIL: h.d.vander.vliet@vu.nl

LINGUISTIC ENGINEERING

A SPECIALIZATION IN THE RESEARCH MASTER LINGUISTICS

WWW.CLTL.NL/LE

VU VRIJE UNIVERSITEIT AMSTERDAM

LOOKING FURTHER

YEAR 1

PERIOD 1

RESEARCH PROJECTS AND THEORIES [9EC]

You study different research projects that are running at the CLTL, interview the researchers, read background literature and write a report. You learn about exciting international projects that are at the frontier of science. Check our website (cltl.nl) for projects.

COMPUTATIONAL LEXICON (6 EC)

In this course, you 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.

PERIOD 2 & 3

PROGRAMMING IN PYTHON FOR LINGUISTS (9 EC)

You learn the basic skills how to make your own program and run these from a command line. We gently submerge you into the world of Python. You learn the basics of programming in Python applied to processing text.

OPTIONAL COURSE (6 EC)

Choose your optional course. You base your choice on your own interests and the specialty that you wish to develop. You can take this course at another faculty or even at another university, provided that you obtain permission from the Examination Board Graduate School.

PERIOD 4

RESEARCH DESIGN I (6 EC)

Students will write a research proposal, present that orally and submit a written version. The group will read and discuss this work. The presenter will use the inputs to improve his proposal and finalise it.

LANGUAGE PROCESSING TOOLKITS (9 EC)

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

PERIOD 5 & 6

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 very much profit from detailed feedback.

OPTIONAL COURSE (6 EC)

Choose your optional course. You base your choice on your own interests and the specialty that you wish to develop. You can take this course at another faculty or even at another university, provided that you obtain permission from the Examination Board Graduate School.

YEAR 2

PERIOD 1

GENERAL LINGUISTICS (9 EC)

SUBJECTIVITY MINING (6 EC)

Subjectivity is part of reality and this is specifically 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.

PERIOD 2 & 3

RESEARCH DESIGN II (6 EC)

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 the principles behind supervised and unsupervised techniques and will learn to apply the tools and algorithms in research projects.

PERIOD 4 / PERIOD 5 & 6

THESIS (30 EC)

MORE INFORMATION

Linguistic Engineering is a specialization of the Research master Linguistics and is fully embedded in the program.

In the schedule you find the programme for the Research Master Linguistics with specialization Linguistic Engineering.

LEGEND:

- Obligatory for all students of VU University research masters in humanities.
- Obligatory for all Research Master Linguistics students.
- Courses in the specialization Linguistic Engineering.
- Optional; can be chosen outside of the specialisation.