DOCTORAL PROGRAMMES

SCHOOL OF INFORMATION SCIENCES

www.uta.fi/sis
Bright Place, Bright People

City of Tampere
According to many surveys, Tampere is Finland's most popular city. A student population of almost 50,000 contributes to the city’s active and vibrant atmosphere. Residents enjoy a high standard of living thanks to the city's beautiful lake surroundings, efficient infrastructure and compact size. A place with all the essentials and a unique lack of pretension, Tampere is a great place to live and study.

University of Tampere (UTA)
With its nine schools and 15,000 degree students, the University of Tampere is a part of the world-famous Finnish educational system. The University of Tampere is the most attractive university in Finland and home to top-class research centres.

School of Information Sciences (SIS)
The School of Information Sciences consists of a versatile collection of sciences dealing with information processing, management and use. For doctoral students, the School offers five different majors: Computer Science, Information Studies and Interactive Media, Interactive Technology, Mathematics, and Statistics. Some of these are available in Finland only at the University of Tampere. The teaching offered by the School is constantly developed alongside with the society's growing and changing needs to manage information.

The research undertaken by the School is internationally renowned and well-connected. The research is focused on different methods of organizing, processing and using information. The aim of the research is to produce new information and expertise that can be utilized in developing knowledge-based products and information services.
Doctoral Programmes and Degrees

There are three doctoral programmes at the School of Information Sciences. The programmes are

- Doctoral programme in Information and Systems majors: Computer Science, Mathematics, Statistics
- Doctoral programme in Information Studies and Interactive Media major: Information Studies and Interactive Media
- Doctoral programme in Interactive Technology major: Interactive Technology

The postgraduate degrees that can be taken are

- the Licentiate of Philosophy and the Doctor of Philosophy degrees

A licentiate degree is an intermediate but optional step towards the doctoral degree. It consists of doctoral studies and a licentiate thesis.

A doctoral degree consist of doctoral studies and dissertation. Studies and research work for doctoral dissertation are intended to last for four years.

Please visit the school’s website and the University of Tampere Doctoral School’s website for more information on these doctoral programmes and admissions process.
Photo: University of Tampere, Jonne Renvall
Doctoral programme in Information and Systems

Information processing has become a core activity for the running of organisations, society at large and global development.

The aim of this doctoral programme is to provide training that prepares students for working as researchers and experts in the fields that cover the following themes:

- Data analysis, data mining and statistical modelling, such as information theory, stochastic methods, machine learning, learning algorithms and computer-intensive methods.
- Mathematics and mathematical methods of data processing, including number theory, algebra, algebraic geometry, logics and finite model theory, algorithms and formal languages.
- Software, databases and data systems, including conceptual modelling, database design, data search, data systems design and utilisation in organisations, delivery chain and product information management, mass tailoring, software development, formal methods of software and information system development, and information systems in healthcare and industry.

Processing information and knowledge using the aforementioned methods is crucial to the increasing utilisation of ICT. Highly educated experts are in demand in these areas of information sciences and employment outlook is good for people holding doctorates in this field. The doctoral programme works closely with the CIS research centre and its research projects.
Doctoral programme in Information Studies and Interactive Media

Information studies view the ways in which information is acquired and used under different circumstances, and the organisation, mediation and storage of information.

The aim of this doctoral programme is to prepare students for operations in the specialised fields of information and interactive media research and to develop concepts, methods and systems that enable information to be easily accessible and understandable by those who need it.

The research focus areas are:
- information retrieval
- information practices
- information and records management
- game studies

The key themes of interactive media research are the analysis of media change and its possibilities, the questions of new media design and implementation, the cultures of use, and interactive media as part of society. Internet research, gaming research, research into an open information society and questions on the research and design of social media services are also priorities in the field of interactive media.

Research aptitudes developed in the information studies and interactive media doctoral programmes provide the prerequisites for creating knowledge on the content, use and development of ICT.
Doctoral programme in Interactive Technology

Interactive technology is a multidisciplinary field focusing on research and development in human-technology interaction and presuming proficiency in the perspectives and research methods of the information, technology and human sciences.

The doctoral programme in interactive technology prepares students for work as a researcher in demanding R&D positions in the field of human-technology interaction. One of the key objectives of interactive technology is to innovate, research and develop new UI technologies so that they support natural human behaviour and enable versatile and fulfilling experiences to the best possible extent.

The range of research methods is wide and studies can be undertaken with different qualifications. Holders of doctoral degree are well versed in the theories and methods of their own research traditions and the most common methods and considerations in the field. They can select the methods that are the best suited to their research questions.

Employment prospects for PhDs are good because the possibilities enabled by technology and the ways in which they are used are constantly evolving and increasing. The majority of doctoral graduates will work in companies and organisations outside the university.
We look forward to seeing you in Tampere!

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